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COMPILATION OF DIFFERENTIAL CROSS SECTIONS

π -INDUCED REACTIONS

E. Bracci, C. Burichetti, J.P. Droulez, E. Flaminio and C. Preti

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High-Energy Reactions Analysis Group

CERN EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

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COMPILATION OF DIFFERENTIAL CROSS SECTIONS

π -INDUCED REACTIONS

E. Bracci^{*}, C. Burichetti⁺, J.P. Droulez,
E. Flaminio⁺ and C. Preti⁺

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ABSTRACT

A compilation of differential cross sections for two-body and quasi-two-body reactions induced by π^- and for elastic π^+ interactions is presented. Graphs of $d\sigma/dt$ and $d\sigma/du$ for such reactions are given.

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INTRODUCTION

The present is a compilation of differential cross section data for two-body and quasi-two-body final states produced in π -Nucleon scattering.

This complements our parallel publication on integrated cross sections for all π^\pm induced reactions⁽¹⁾.

The data covered in the present compilation are all those published on the major Reviews and journals in tabular form up to June 1973.

We have been limiting ourselves to momenta greater than 500 MeV/c.

The reviews we have systematically scanned are the following:

- Physical Review
- Physical Review Letters
- Nuclear Physics
- Physics Letters
- Nuovo Cimento
- Lettere al Nuovo Cimento.

A considerable amount of data had only been published in graphical form. In these cases we have contacted directly the authors asking for the corresponding tables, which many of them have kindly provided.

We have not included, in the present compilation, π^+ induced inelastic reactions and refer, for them, to the recent compilation by the Particle Data Group⁽²⁾.

DATA ORGANIZATION

We have tried as much as possible to store the data in their original format, and let the programs do the necessary conversions. For example, some groups publish their data in the form of $d\sigma/dt$, some as $d\sigma/d(\cos\theta^*)$, $d\sigma/du$ and so on. In our data-base we have kept the data exactly in the form in which they had been published but, in presenting them here, for reasons of uniformity we have converted them all into $d\sigma/dt$.

We have to warn here the reader that such a conversion can give slightly wrong results if one or both particles appearing in the final state are resonances having a finite width.

In those cases where branching-fraction corrections had not been applied by the authors to the original data, we have stored the uncorrected data, but we have let our programs perform the relevant corrections at editing time, using the latest values for the branching fractions, given in ref. 3.

The list of all reactions is given in Table 1, while in Table 2 we give a list of all references. In Table 3 we give a listing of all the data. Each reaction is identified by its Feynman diagram, that also tells between which particles t is calculated.

All experiments at a given momentum are lumped in one table. Symbols printed on the left side of each individual measurement are used to identify the experiment. Also given for each experiment is the systematic error (which has not been folded into what in the table appears under the heading of "ERROR", though in some cases the authors have folded it in already).

Finally, we give all the plots of $d\sigma/dt$ and plots of $d\sigma/du$ for some reactions only.

At the end of the present compilation, we have added a list of all articles containing data on πN reactions, including those which we have been unable to include in table 3, because the data were only given in graphical form.

REFERENCES

- (1) E. Bracci et al., Compilation of cross sections, I - π^- and π^+ induced reactions, CERN/HERA 72-1.
- (2) D.M. Chew et al., π^+P , π^+N and π^+D interactions, LBL-53 (1973)
- (3) N. Barash-Schmidt et al., Reviews of Modern Physics, Vol. 45, No. 2, Part II, April 1973.

TABLE 1

LIST OF REACTIONS

<u>REACTION</u>	<u>TABLES</u>	<u>PLOTS (dσ/dt)</u>	<u>PLOTS (dσ/du)</u>	<u>PLOTS (dσ/dt)</u> small t
$\pi^+ p \rightarrow \pi^+ p$	Page 15	Page 183	Page 205	Page 221
$\pi^- p \rightarrow \pi^- p$	" 58	" 227	" 271	" 295
$\pi^- p \rightarrow p\rho^-$	" 134	" 313		
$\pi^- p \rightarrow pA_2^-$	" 135	" 311		
$\pi^- p \rightarrow N\pi^0$	" 136	" 299	" 307	
$\pi^- p \rightarrow N\eta$	" 146	" 314		
$\pi^- p \rightarrow Nf$	" 150	" 316		
$\pi^- p \rightarrow N\rho$	" 151	" 316		
$\pi^- p \rightarrow \Sigma^- K^+$	" 152	" 317		
$\pi^- p \rightarrow \Lambda K^0$	" 156	" 319		
$\pi^- p \rightarrow \Sigma^0 K^0$	" 167	" 326		
$\pi^- p \rightarrow \Lambda K_{890}^{*0}$	" 172	" 330		
$\pi^- p \rightarrow \Sigma^0 K_{890}^{*0}$	" 173	" 330		
$\pi^- p \rightarrow \Lambda K_{1420}^{*0}$	" 174	" 331		
$\pi^- p \rightarrow \Lambda_{1520} K^0$	" 175	" 331		
$\pi^- p \rightarrow Y_{1385}^{*0} K^0$	" 176	" 331		
$\pi^- N \rightarrow N\pi^-$	" 177			
$\pi^- D \rightarrow D\pi^-$	" 178	" 335		

TABLE 2

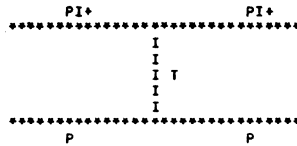
AUTHOR'S INDEX

LIST OF REFERENCES ARRANGED BY AUTHOR

1	-	ABC COLLABORATION	PRIV.	COMMUNIC.	73	S159	110	-	DOWELL	PL	12	252	64	S143	
2	-	ABILLON	PL	325	712	70	S154	111	-	DOKELL J.D.	PL	12	252	64	S144
3	-	ABILLON	NP	R46	630	72	S140	112	-	DOYLE	UCRL	17703	67	S207	
4	-	ABRAMOVICH	NP	527	477	71	S181	113	-	DOYLE	UCRL	69	69	S202	
5	-	ABRAMS	PRL	21	1407	68	S002	114	-	DUKE	PR	149	1077	66	S058
6	-	ADAMS	PR	4	2637	71	S040	115	-	EHRICH	PR	152	1194	66	S043
7	-	ADERHOLZ	PL	10	248	64	S127	116	-	EISLEP	PL	149	1077	66	S058
8	-	AGUILAR	PR	4	2583	71	S039	117	-	ERKIN	PR	152	1194	66	S043
9	-	AKERLOF	PRL	26	1278	71	S032	118	-	FELLINGER	PRL	22	1265	69	S003
10	-	AKERLOF	PRL	27	218	71	S035	119	-	FELLINGER	PRL	23	600	69	S005
11	-	ALBROU	NP	R25	11	76	S131	120	-	FELLINGER	PR	2	1777	70	S050
12	-	ALBROU	NP	R37	594	72	S183	121	-	FEMINO	NC	52A	692	67	S165
13	-	ALITTI	NC	29	515	63	S138	122	-	FICENE	PR	175	1725	68	S050
14	-	ALLEN	NC	58A	741	68	S175	123	-	FLATTER	PR	163	1441	67	S023
15	-	ANDERSON	PR	152	1139	67	S118	124	-	FOLEY	PRL	11	425	63	S011
16	-	ANDERSON	PRL	20	1529	68	S001	125	-	FOLEY	PRL	11	503	63	S012
17	-	ANKENBRANDT	PR	170	1223	68	S025	126	-	FOLEY	PRL	15	45	65	S014
18	-	ANTHONY	PPL	21	1605	68	S096	127	-	FOLEY	PR	181	1775	69	S031
19	-	ANTIPOV	PL	TPH	74	3193	S128	128	-	FOLEY	PR	6	747	72	S146
20	-	APLIN	NP	632	253	71	S174	129	-	FOLEY	RVL	17744	73	S217	
21	-	APLIN	NP	632	253	71	S177	130	-	FOX	PR	4	2647	71	S042
22	-	ATWOOD	PR	2	2519	70	S047	131	-	FRIEDMAN	PR	145	1136	66	S056
23	-	AUERBACH	NC	47	19	67	S195	132	-	FRIEDMAN	PRL	16	485	66	S026
24	-	BARAEV	PL	38F	342	72	S160	133	-	GEZELTER	PR	173	1315	68	S107
25	-	BAKER	PL	23	605	66	S155	134	-	GIBBARD	PRL	24	22	70	S006
26	-	BAKER	PL	25B	361	67	S176	135	-	GOSHAN	PRL	25	249	70	S039
27	-	BAKER	NP	R9	249	69	S178	136	-	GOUSSU	NC	42	606	66	S205
28	-	BAKER	NP	R18	29	70	S130	137	-	GRARD	NC	22	193	61	S167
29	-	BAKER	NP	R25	385	71	S180	138	-	GRAND	PR	127	607	62	S115
30	-	BALLAH	PL	31R	489	70	S209	139	-	GRAZIANO	PR	128	1868	62	S054
31	-	BANAIGS	NP	RR	31	66	S126	140	-	GRETHER	PR	TAP	73	S210	
32	-	BANNER	NC	50A	431	67	S134	141	-	GUISAN	PL	18	200	65	S190
33	-	BARGE	PRL	13	69	64	S098	142	-	HAGopian	PR	5	2684	72	S145
34	-	BARLOTTA	NC	26	1409	62	S164	143	-	HAN	PRL	24	1353	70	S072
35	-	BARLOTTA	PL	1	207	62	S170	144	-	HARTING	NC	38	60	65	S135
36	-	BARTSCH	NP	646	46	72	S163	145	-	HARVEY	PRL	27	885	71	S219
37	-	HASHIAN	PR	4	2667	71	S041	146	-	HEINZ	PR	167	1232	63	S029
38	-	HATHON	NP	R21	551	70	S179	147	-	HELLAND	PR	134	1062	64	S078
39	-	BERARDO	PR	6	756	72	S147	148	-	HELLAND	PR	134	1079	64	S079
40	-	BERGIA	NC	15	551	60	S171	149	-	HILL	PR	1	729	70	S049
41	-	BERTANZA	NC	19	467	61	S184	150	-	HIRSCH	PR	135	191	64	S104
42	-	BERTANZA	PRL	8	332	62	S112	151	-	Hladky	PL	31B	475	70	S153
43	-	BERTANZA	NC	44	712	66	S169	152	-	HOCK	L3L-1052	72	S215		
44	-	BERTHELOT	NC	21	693	61	S197	153	-	HOLLEY	PR	154	1273	67	S061
45	-	BGLRO-COLLABORATION	PR	152	1148	66	S101	154	-	HOLLIDAY	PR	139	1348	65	S120
46	-	BIDAN	NC	24	334	62	S173	155	-	HYMAN	PR	165	1437	68	S028
47	-	BIGI	NC	34	878	64	S172	156	-	JAMES	PL	19	72	65	S128
48	-	BINFORD	BAPS	10	45	65	S198	157	-	KALBACI	PRL	27	74	71	S033
49	-	BIRNBAUM	PRL	23	433	69	S191	158	-	KALMUS	PR	4	676	71	S055
50	-	BLOTHWIRTH	NP	R35	79	71	S189	159	-	KAMMERUD	PR	4	1309	71	S051
51	-	BOCKMAN	NP	R7	681	68	S142	160	-	KERN	PR	133	457	64	S114
52	-	BODY	PR	4	1261	71	S056	161	-	KIM	PR	143	1028	66	S122
53	-	BORGEAUD	PL	10	134	64	S185	162	-	KIRZ	STU HYBRK	69	S196		
54	-	BORIGHT	PL	33F	615	70	S157	163	-	KOPFER	PR	163	1479	67	S070
55	-	BORIGHT	PRL	24	964	70	S076	164	-	KOPFER	PR	163	1479	67	S123
56	-	BORREANI	VIENNAGR	68	S199	165	-	165	-	LAI	PRL	7	125	61	S093
57	-	BOWLER	NP	E37	133	72	S136	166	-	LEE	PR	138	707	65	S020
58	-	BRARSON	PL	42R	283	72	S161	167	-	LONDON	PR	143	1034	66	S099
59	-	BRADAMANTE	PL	28R	191	68	S151	168	-	LODS	PR	173	1330	68	S044
60	-	BRADAMANTE	NCL	1	177	69	S137	169	-	MADDOCK	NC	5A	433	71	S136
61	-	BRADAMANTE	NCL	1	895	69	S132	170	-	MANFELLI	PR	168	1515	69	S030
62	-	BRADAMANTE	PL	31R	87	70	S152	171	-	MATTEOS	NP	R32	356	71	S214
63	-	BRANDT	PRL	10	413	63	S010	172	-	HEMLEY	PR	6	740	72	S149
64	-	BRADY	PRL	16	828	66	S192	173	-	METZGER	PR	164	1680	67	S045
65	-	BRADY	PR	3	2619	71	S194	174	-	NING FA	PRL	27	344	71	S034
66	-	BUFFINGTON	PR	176	1628	68	S100	175	-	NAUGHTON	NP	R33	101	71	S182
67	-	BURNSTEIN	PR	137	1044	68	S090	176	-	NECHINA	PR	132	1283	63	S081
68	-	BUSBY	RPP/H/107	73	S216	177	-	177	-	OREM	NP	R33	512	71	S213
69	-	BUSZA	NC	52A	332	67	S133	178	-	OREM	PR	137	1115	65	S077
70	-	BUSZA	PR	190	1339	69	S059	179	-	OLIVER	PR	147	932	66	S094
71	-	BUTTERWORTH	PR	15	734	65	S109	180	-	OREAR	PRL	15	309	65	S015
72	-	CHARYKINOPOLUS	PL	13R	433	65	S116	181	-	OREAR	PRL	15	313	66	S016
73	-	CARAYON	PL	33R	502	70	S218	182	-	OREAR	PR	152	1162	66	S021
74	-	CARROL	PRL	20	607	68	S218	183	-	OTT	PL	42B	133	72	S238
75	-	CARROL	PRL	21	1262	68	S106	184	-	OWEN	PR	181	1794	69	S038
76	-	CARROL	PL	177	2047	69	S069	185	-	PAY	PR	2	449	70	S046
77	-	CHARAUD	PL	34B	441	72	S159	186	-	PERIN	PL	26B	35	67	S204
78	-	CHANDLER	PRL	23	196	69	S074	187	-	PERL	PR	132	1252	63	S010
79	-	CHASE	PRL	22	1137	69	S075	188	-	PERL	PR	1	1857	70	S037
80	-	CHASE	PR	2	2598	70	S058	189	-	PICKUP	PR	132	1819	63	S086
81	-	CHIFF	PL	28R	615	69	S141	190	-	PRATT	PL	418	383	72	S211
82	-	CHRITIEN	PR	10R	393	57	S091	191	-	FRUSS	PRL	23	189	69	S004
83	-	CLINE	PRL	19	675	67	S110	192	-	REBKA	PRL	24	160	70	S108
84	-	CLINE	PRL	23	1318	69	S111	193	-	RENNINGER	PR	70	S212		
85	-	COFFIN	PRL	15	838	65	S018	194	-	REYNOLDS	PR	173	1403	68	S045
86	-	COFFIN	PR	159	1169	67	S024	195	-	REYNOLDS	PRL	24	1251	70	S007
87	-	COLEMAN	PRL	164	1655	66	S027	196	-	REYNOLDS	PR	2	1767	70	S048
88	-	COOK	PR	129	2743	63	S105	197	-	ROELLING	PR	115	1001	59	S090
89	-	COOK	PR	130	762	63	S092	198	-	ROST	PRL	24	1361	70	S008
90	-	COOPER	PRL	20	472	68	S071	199	-	RYAN	PR	3	1	71	S054
91	-	CRAWFORD	PRL	3	394	59	S119	200	-	SCHNEIDER	PRL	23	1068	69	S036
92	-	CRAWFORD	CERN62	62	S200	201	-	201	-	SCHROEDER	PR	176	1649	68	S043
93	-	CRAWFORD	PR	12R	368	62	S117	202	-	SHIMLE	PRL	5	157	60	S084
94	-	CREANEL	PRL	23	1347	69	S103	203	-	SIDWELL	PR	3	1523	71	S052
95	-	CREANEL	PR	6	1220	72	S162	204	-	SODICKSON	PR	133	767	64	S062
96	-	CRITTENDER	PRL	2	121	59	S082	205	-	STOEFEGGER	PL	20	75	66	S150
97	-	CRITTENDER	PRL	12	429	64	S097	206	-	STEINBERGER	PRL	3	394	59	S113
98	-	CRITTENDER	PR	1	3050	70	S057	207	-	STIRLING	PR	14	763	65	S013
99	-	DAHL	PRL	163	1430	67	S022	208	-	TROWER	PR	170	1207	68	S065
100	-	DAMOUTH	PR	11	287	63	S095	209	-	UHLIG	PR	155	1448	67	S063
101	-	DAUER	PR	134	1370	64	S067	210	-	VAN DE KALLP	NC	53A	745	68	S168
102	-	DAUDIN	NC	33	1301	64	S139	211	-	VITTITIO	PR	132	232	64	S083
103	-	DAUM	NP	R6	273	68	S124	212	-	WEIMBERG	PRL	8	70	62	S088
104	-	DAUM	NP	R6	617	68	S125	213	-	WHITFORD	PR	3	1092	71	S053
105	-	DEBASTIEUX	NP	R5	1										

TABLE 3

TABLES OF CROSS SECTIONS AS FUNCTION OF t



DATA AT .4274 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0862	241893.9071	11239.7891	.0010	.2413	47752.3002	2622.6184	.0010
.1015	217677.2552	13896.4682	.0010	.2716	57867.8968	2895.0990	.0010
.1190	162636.3136	17813.3669	.0010	.2976	73671.7230	3542.2388	.0010
.1369	92711.2567	31505.4823	.0010	.3173	95981.0403	4564.0374	.0010
.1550	99114.5598	21151.2458	.0010	.3321	120878.8925	5653.9571	.0010
.1762	74538.2441	4053.1379	.0010	.3431	134945.6678	6982.2976	.0010
.1968	56062.7341	3548.1791	.0010	.3511	143528.5599	8174.3962	.0010
.2166	49284.7879	3542.2388	.0010	.3590	163010.9734	7425.0778	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
OGDEN	PR	137	1115 65	COUNTERS	NOT GIVEN	DSIG/DOOM	VS COST PI+ ,PI+

DATA AT .4901 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0948	152305.3306	4411.4533	.0010	.3045	16432.6592	992.5775	.0010
.1117	133584.2241	4328.7382	.0010	.3409	17342.5216	1047.7207	.0010
.1310	111527.0366	5845.1754	.0010	.3719	25490.1370	1378.5797	.0010
.1531	80867.4473	8623.3257	.0010	.3954	33609.7569	1792.1535	.0010
.1759	52882.2815	11138.9149	.0010	.4127	39923.6499	2233.2986	.0010
.1983	48084.8257	16129.3718	.0010	.4257	50952.2772	2702.0158	.0010
.2247	37194.0030	1930.0114	.0010	.4348	55005.3071	3115.5893	.0010
.2502	23959.7020	1544.0092	.0010	.4442	60629.8970	2977.7314	.0010
.2744	18004.2396	1378.5797	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
OGDEN	PR	137	1115 65	COUNTERS	NOT GIVEN	DSIG/DOOM	VS COST PI+ ,PI+

DATA AT .5316 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0165	234587.0641	21215.2551	.0010	.2881	13436.3228	926.6438	.0010
.0222	190205.7278	12680.3828	.0010	.2963	13899.6503	1950.8290	.0010
.0276	179232.3205	12680.3828	.0010	.3151	8076.2624	877.8731	.0010
.0327	178013.0530	10729.5548	.0010	.3221	11339.1886	1706.9755	.0010
.0510	163137.9998	8291.0199	.0010	.3479	9022.5804	2926.2430	.0010
.0639	144848.9776	1.241.8478	.0010	.3486	8803.5377	609.6343	.0010
.0737	151339.9965	1.973.4083	.0010	.3672	6827.8989	1706.9755	.0010
.0832	111441.0486	11704.9688	.0010	.3865	8291.3199	1463.1220	.0010
.0930	132241.6565	2828.7011	.0010	.3893	5925.4344	707.1757	.0010
.0971	100711.4948	6584.0454	.0010	.4058	13094.9337	2194.6825	.0010
.1105	100223.7978	7071.7524	.0010	.4236	12363.3574	877.8731	.0010
.1165	106685.9955	2901.8564	.0010	.4259	11217.2618	2438.5360	.0010
.1237	90669.6480	8291.0199	.0010	.4370	15850.4782	2438.5360	.0010
.1301	93664.1168	3462.7194	.0010	.4494	18849.8704	1072.9559	.0010
.1345	76326.1952	1.485.7013	.0010	.4586	17850.3769	2194.6825	.0010
.1448	73643.7568	7315.6059	.0010	.4638	20727.5482	3657.8034	.0010
.1525	78008.7166	5316.0057	.0010	.4684	22239.4340	1341.1947	.0010
.1546	79983.9477	7803.3129	.0010	.4690	21946.8156	2438.5360	.0010
.1644	66572.0054	7803.3129	.0010	.4715	28530.8600	4389.3639	.0010
.1739	60719.5215	9422.5804	.0010	.4780	22434.5226	4145.5104	.0010
.1778	50355.7360	6193.8783	.0010	.4818	26823.8856	3901.6569	.0010
.2038	32725.1163	9422.5745	.0010	.4826	25214.4347	1609.4336	.0010
.2293	33188.4379	8851.8771	.0010	.4844	31700.9555	3901.6569	.0010
.2499	15606.6247	4877.0709	.0010	.4896	33164.3764	4145.5104	.0010
.2592	22507.6728	1268.0387	.0010	.4927	28189.4412	1877.6717	.0010
.2718	15606.6247	2194.6825	.0010	.5027	27726.1196	1706.9750	.0010

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES	
BANNER	NU	50A	431 67	SPARK CHAMBERS	2.0 P/C	DSIG/DOOM	VS COST PI+ ,PI+
* OGDEN	PR	137	1115 65	COUNTERS	NOT GIVEN	DSIG/DOOM	VS COST PI+ ,PI+

DATA AT .5728 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1072	95681.4137	2006.9987	.0010	.3574	4384.8570	589.0112	.0010
.1273	77487.5949	2050.6298	.0010	.3946	2268.7819	414.4895	.0010
.1498	67408.9693	2748.7166	.0010	.4392	4057.5291	414.4895	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT .573 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1751	54167.1548	3272.2814	.0010	.4767	5846.4712	545.3807	.0010
.2039	40227.2375	4384.8570	.0010	.5046	7788.1247	698.0872	.0010
.2330	23342.2618	6675.4491	.0010	.5254	11649.3163	872.6088	.0010
.2618	24345.7506	5301.0956	.0010	.5406	13132.7504	1003.5001	.0010
.2952	13830.8370	872.6088	.0010	.5516	13067.3048	1287.0978	.0010
.3272	7657.1334	698.0872	.0010	.5625	15030.5734	1112.5761	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR		MEASURED VARIABLES	
OGDEN	PR	137	1115 65	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI+ ,PI+	

DATA AT .5900 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0181	169999.5582	39680.4873	.0010	.3189	8353.7876	1044.2243	.0010
.0301	177517.9661	27149.8074	.0010	.3309	4803.4283	835.3797	.0010
.0421	145564.7324	15663.3509	.0010	.3430	6891.8749	1044.2243	.0010
.0542	112984.9647	5612.2730	.0010	.3550	4175.8943	835.3797	.0010
.0662	92727.0322	4803.4283	.0010	.3671	3132.6710	626.5350	.0010
.0782	96668.5468	4803.4283	.0010	.3791	2506.1370	626.5350	.0010
.0903	82702.4383	4385.7390	.0010	.3911	1670.7583	417.6903	.0010
.1023	81867.1396	4385.7390	.0010	.4032	2088.4476	626.5350	.0010
.1143	66830.2338	3759.2050	.0010	.4152	2506.1370	626.5350	.0010
.1264	72677.9444	3568.0496	.0010	.4272	1461.9137	417.6903	.0010
.1384	60564.9538	3568.0496	.0010	.4272	1461.9137	417.6903	.0010
.1504	60147.2645	2923.8263	.0010	.4393	2088.4476	626.5350	.0010
.1625	52837.7112	2714.9816	.0010	.4513	2088.4476	626.5350	.0010
.1745	46572.3513	2506.1370	.0010	.4633	2088.4476	626.5350	.0010
.1865	42604.3126	2506.1370	.0010	.4754	3550.3563	626.5350	.0010
.1986	35712.4387	2297.2923	.0010	.4874	4175.8943	835.3797	.0010
.2106	32997.4581	2088.4476	.0010	.4994	4803.4283	835.3797	.0010
.2226	32370.9241	2088.4476	.0010	.5115	3759.2050	835.3797	.0010
.2347	29655.9434	2088.4476	.0010	.5235	3759.2050	835.3797	.0010
.2467	24852.5161	1879.6330	.0010	.5355	7309.5643	1044.2243	.0010
.2587	18796.0206	1670.7583	.0010	.5476	6056.4963	835.3797	.0010
.2708	19213.7102	1670.7583	.0010	.5596	6891.8749	1044.2243	.0010
.2828	13157.2149	1461.9137	.0010	.5716	4803.4283	835.3797	.0010
.2948	12530.6809	1253.0690	.0010	.5716	3341.5156	626.5350	.0010
.3069	7936.0383	1044.2243	.0010	.5746	5221.1176	835.3797	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR		MEASURED VARIABLES	
BOWLER	NP	637	133 72	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI+ ,PI+	

DATA AT .6139 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0220	123144.7150	7881.2627	.0010	.3237	5713.3157	1379.2218	.0010
.0313	104229.6069	7093.1365	.0010	.3326	8255.5179	827.5331	.0010
.0364	95560.2391	7093.1365	.0010	.3438	4078.5539	985.1587	.0010
.0434	88664.1351	7684.2312	.0010	.3635	2068.8322	591.0956	.0010
.0507	83738.4165	8472.3573	.0010	.3680	4787.8669	551.6889	.0010
.0673	84920.5358	3546.5688	.0010	.3843	2758.4426	788.1272	.0010
.0839	84132.4696	4531.7265	.0010	.4012	1832.3940	472.8763	.0010
.0966	69355.1139	4531.7265	.0010	.4053	2364.3795	788.1272	.0010
.1005	72921.3355	1792.9871	.0010	.4273	1320.1123	394.0641	.0010
.1180	58912.4422	5910.9473	.0010	.4423	1201.8930	315.2515	.0010
.1221	73906.5182	1556.5498	.0010	.4512	1241.2997	394.0641	.0010
.1333	56153.9906	6365.0104	.0010	.4748	1950.6133	591.0956	.0010
.1445	54380.7167	6502.0419	.0010	.4905	1970.3154	374.3605	.0010
.1451	58321.3183	1576.2527	.0010	.5000	2423.4890	591.0956	.0010
.1556	41573.6565	5910.9473	.0010	.5303	6206.4946	985.1587	.0010
.1703	48686.4355	2206.7539	.0010	.5310	3329.8335	413.7668	.0010
.1754	41179.5934	5122.8211	.0010	.5520	8078.2942	1576.2533	.0010
.1888	36450.8364	3349.5372	.0010	.5613	4748.4608	551.6889	.0010
.1990	42104.7367	2581.1136	.0010	.5667	7290.1681	1379.2218	.0010
.2035	31919.1109	3349.5372	.0010	.5804	7881.2627	1379.2218	.0010
.2146	32707.2370	3349.5372	.0010	.5836	6738.4750	610.7984	.0010
.2200	27978.4800	3152.5057	.0010	.5880	7290.1681	1970.3164	.0010
.2264	31722.6793	4137.6634	.0010	.5944	5516.8842	1970.3164	.0010
.2309	25200.3209	3526.8646	.0010	.5998	7920.6643	748.7205	.0010
.2436	23446.7545	1970.3164	.0010	.6027	10442.6727	1970.3164	.0010
.2637	16136.8796	4334.6339	.0010	.6116	7447.7886	925.0489	.0010
.2647	23052.6915	2364.3795	.0010	.6129	7093.1365	1970.3164	.0010
.2956	12708.5306	6107.9741	.0010	.6231	6955.2097	807.8299	.0010

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR		MEASURED VARIABLES	
BANNER	NC	50A	431 67	SPARK CHAMBERS	2 J P/C	DSIG/DOH	VS COST PI+ ,PI+	
* OGDEN	PR	137	1115 65	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI+ ,PI+	

REACTION PI+ P = P PI+

DATA AT .6450 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0266	145054.0498	35575.8360	.0010	.3632	5134.6576	1467.0457	.0010
.0343	119564.1474	21355.2468	.0010	.3769	5134.6576	1467.0457	.0010
.0480	95908.0510	12286.5007	.0010	.3966	5134.6576	1467.0457	.0010
.0617	64549.9696	5868.1800	.0010	.4043	2934.0905	1100.2846	.0010
.0754	63633.0667	5868.1800	.0010	.4180	2567.3293	1100.2846	.0010
.0891	72435.3351	6234.9412	.0010	.4317	366.7622	366.7622	.0010
.1028	63999.8279	5684.7994	.0010	.4454	1283.6651	733.5234	.0010
.1165	53363.7535	5134.6576	.0010	.4591	1283.6651	733.5234	.0010
.1302	62716.1037	5684.7994	.0010	.4728	916.9040	550.1428	.0010
.1439	53363.7535	5134.6576	.0010	.4865	916.9040	550.1428	.0010
.1576	43644.5021	4584.5158	.0010	.5003	366.7622	366.7622	.0010
.1713	37776.4031	4034.3740	.0010	.5140	916.9040	550.1428	.0010
.1850	40710.4926	4217.7546	.0010	.5277	916.9040	550.1428	.0010
.1987	31358.0324	3667.6129	.0010	.5414	916.9040	550.1428	.0010
.2124	29340.8958	3484.2323	.0010	.5551	2567.3293	1100.2846	.0010
.2261	32274.9853	3667.6129	.0010	.5688	2200.5681	916.9040	.0010
.2399	28057.2317	3484.2323	.0010	.5825	4584.5158	1467.0457	.0010
.2536	24939.7616	3300.8517	.0010	.5962	2934.0905	1100.2846	.0010
.2673	17787.9185	2750.7099	.0010	.6099	2567.3293	1100.2846	.0010
.2810	17787.9185	2750.7099	.0010	.6236	2567.3293	1100.2846	.0010
.2947	17421.1573	2750.7099	.0010	.6373	3300.8517	1283.6651	.0010
.3084	12653.2619	2383.9487	.0010	.6510	1650.4263	916.9040	.0010
.3221	13570.1649	2383.9487	.0010	.6647	2567.3293	1100.2846	.0010
.3358	8985.6500	2017.1875	.0010	.6784	916.9040	550.1428	.0010
.3495	8435.5083	1833.8069	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BOWLER NP B37 133 72	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH VS COST PI+ ,PI+

DATA AT .6579 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.1597	42571.3244	1140.4625	.0010	.5095	962.2659	338.5755	.0010
.1953	33964.3831	1318.6597	.0010	.5469	1069.1843	320.7557	.0010
.2246	26408.8234	1318.6597	.0010	.5906	1603.7759	374.2149	.0010
.2613	21419.3041	1336.4802	.0010	.6234	2530.4013	392.0346	.0010
.2980	14131.0402	2174.0072	.0010	.6474	3866.8807	516.7727	.0010
.3745	6201.2617	552.4122	.0010	.6647	2797.5971	623.6911	.0010
.4136	2779.8775	409.8544	.0010	.6788	2583.8609	623.6911	.0010
.4499	1265.2111	356.3952	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
HELLAND PR 134 1062 64	COUNTERS	NOT GIVEN	DSIG/DOH VS COST PI+ ,PI+

DATA AT .6753 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0996	52283.0505	1167.1859	.0010	.4320	2643.3330	343.2906	.0010
.1204	47923.2726	1119.6930	.0010	.4697	1190.0218	308.9616	.0010
.1464	45674.7151	944.0480	.0010	.5154	909.7190	240.3040	.0010
.1735	37624.5659	1129.8705	.0010	.5696	1785.1382	240.3040	.0010
.2032	30398.3211	1338.8307	.0010	.6146	2368.7006	274.6330	.0010
.2365	24081.7862	1458.9827	.0010	.6483	2609.0035	343.2906	.0010
.2742	15842.8276	2176.9048	.0010	.6728	2660.4975	394.7841	.0010
.3119	8977.0288	3158.2676	.0010	.6908	2506.0167	463.4421	.0010
.3489	7174.7566	3329.9124	.0010	.7036	2145.5631	549.2646	.0010
.3917	5132.1815	446.2776	.0010	.7164	2282.8782	446.2776	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OGDEN PR 137 1115 65	COUNTERS	NOT GIVEN	DSIG/DOH VS COST PI+ ,PI+

DATA AT .7000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0231	68972.2273	16468.5468	.0010	.4085	4891.6483	815.2755	.0010
.0385	75331.3688	11903.0093	.0010	.4239	3098.0443	652.2206	.0010
.0540	71581.1059	7989.6915	.0010	.4393	2934.9894	652.2206	.0010
.0694	57884.4936	3261.0992	.0010	.4547	1793.6050	489.1657	.0010
.0848	48590.3638	2934.9894	.0010	.4701	1793.6050	489.1657	.0010
.1002	42068.1674	2608.8795	.0010	.4855	1141.3854	326.1108	.0010
.1156	41742.0576	2608.8795	.0010	.5010	815.2755	326.1108	.0010
.1310	41579.0027	2608.8795	.0010	.5164	652.2206	326.1108	.0010
.1464	35709.0250	2282.7697	.0010	.5318	326.1108	163.0559	.0010
.1619	35219.8613	2282.7697	.0010	.5472	978.3305	326.1108	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT .700 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1773	34078.4769	2282.7697	.0010	.5626	652.2206	326.1108	.0010
.1927	30002.1.42	1793.6050	.0010	.5780	652.2206	326.1108	.0010
.2081	25762.6766	1630.5501	.0010	.5934	652.2206	326.1108	.0010
.2235	25110.4569	1630.5501	.0010	.6088	1304.4403	326.1108	.0010
.2389	24132.1275	1630.5501	.0010	.6243	1793.6050	489.1657	.0010
.2543	20218.8097	1467.4952	.0010	.6397	978.3305	326.1108	.0010
.2697	18262.1508	1467.4952	.0010	.6551	1630.5501	489.1657	.0010
.2852	14674.9428	1304.4403	.0010	.6705	1956.6599	489.1657	.0010
.3006	15979.3820	1304.4403	.0010	.6859	2282.7697	489.1657	.0010
.3160	10598.5701	1141.3854	.0010	.7013	2282.7697	489.1657	.0010
.3314	10109.4053	1141.3854	.0010	.7167	1304.4403	326.1108	.0010
.3468	9783.2955	978.3305	.0010	.7322	1956.6599	489.1657	.0010
.3622	7500.5268	978.3305	.0010	.7476	978.3305	326.1108	.0010
.3776	6033.0326	815.2755	.0010	.7630	326.1108	163.0559	.0010
.3931	4239.4286	652.2206	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BOWLER NP 637 133 72	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH VS COST PI+ ,PI+

DATA AT .7069 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1512	34777.6563	900.3935	.0010	.5061	321.5695	305.4911	.0010
.1825	32671.3882	868.2366	.0010	.5709	739.5090	289.4126	.0010
.2231	24310.5303	1141.5699	.0010	.6116	1447.0603	273.3342	.0010
.2560	16383.9181	1318.4325	.0010	.6589	2041.9627	289.4126	.0010
.2974	12975.3002	1463.1385	.0010	.6940	2508.2372	305.4911	.0010
.3380	9470.1998	2106.2765	.0010	.7198	1816.8645	353.7264	.0010
.4232	4164.3137	353.7264	.0010	.7386	2460.0024	369.8049	.0010
.4662	1382.7462	305.4911	.0010	.7534	1270.1976	450.1971	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
HELLAND PR 134 1062 64	COUNTERS	NOT GIVEN	DSIG/DOH VS COST PI+ ,PI+

DATA AT .7263 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0305	50909.5036	6189.6029	.0010	.4426	3094.8035	340.4290	.0010
.0609	45029.3782	3559.0235	.0010	.4670	2166.3627	773.7014	.0010
.0609	57253.8499	6608.5641	.0010	.4670	154.7411	773.7017	.0010
.1015	40541.9141	3559.0235	.0010	.4873	1671.1941	294.0070	.0010
.1015	37137.6270	5415.9028	.0010	.5076	1702.1418	773.7014	.0010
.1145	36209.1787	851.0715	.0010	.5076	154.7411	773.7017	.0010
.1385	32773.9476	804.6494	.0010	.5287	1052.2332	294.0070	.0010
.1421	34352.3009	2940.0634	.0010	.5482	928.4415	618.9613	.0010
.1421	24758.4327	4487.4620	.0010	.5482	773.7017	773.7017	.0010
.1681	30855.1737	680.8573	.0010	.5785	665.3833	247.5852	.0010
.1827	31257.4981	2630.5826	.0010	.5888	154.7411	309.4810	.0010
.1827	30174.3253	4796.9423	.0010	.5888	2321.1031	1392.6623	.0010
.1966	24387.0320	773.7014	.0010	.6294	1856.8818	773.7014	.0010
.2233	28317.4434	2785.3226	.0010	.6294	3094.8038	1547.4024	.0010
.2233	21973.0855	4177.9817	.0010	.6375	1408.1355	247.5852	.0010
.2323	21756.4496	1052.2332	.0010	.6700	1856.8818	773.7014	.0010
.2639	13926.6099	1702.1418	.0010	.6700	1547.4024	2166.3630	.0010
.2639	15474.0151	3559.0242	.0010	.6866	2816.2711	278.5329	.0010
.2700	16108.4383	1198.6555	.0010	.7106	2321.1026	773.7014	.0010
.3045	13462.3895	1702.1418	.0010	.7106	1547.4024	2166.3630	.0010
.3045	11914.9887	3094.8038	.0010	.7224	2336.5763	309.4810	.0010
.3123	10352.1127	1500.9794	.0010	.7488	2088.9926	340.4290	.0010
.3452	8974.9254	1392.6618	.0010	.7512	1702.1418	773.7014	.0010
.3452	13307.6500	3094.8038	.0010	.7512	1547.4024	2166.3630	.0010
.3545	6483.6092	2584.1610	.0010	.7678	1655.7202	371.3770	.0010
.3858	5880.1226	1083.1817	.0010	.7817	1949.7265	417.7991	.0010
.3858	4177.9817	1856.8811	.0010	.7918	1083.1817	618.9613	.0010
.3955	5942.0187	1624.7717	.0010	.7918	1547.4024	2166.3630	.0010
.4264	3094.8035	928.4415	.0010	.7951	1268.8694	417.7991	.0010
.4264	773.7017	773.7017	.0010				

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
NEWCOMB PR 132 1283 63	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH VS COST PI+ ,PI+
* BARLOTAUD NU 26 1409 62	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH VS COST PI+ ,PI+
+ OGDEN PR 137 1115 65	COUNTERS	NOT GIVEN	DSIG/DOH VS COST PI+ ,PI+

REACTION PI+ P = P PI+

DATA AT .7520 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0256	80442.7354	19447.7095	.0010	.4521	3388.6169	736.6566	.0010
.0427	68508.9743	11344.4977	.0010	.4691	1473.3123	441.9944	.0010
.0597	48913.9346	6040.5771	.0010	.4862	1178.6500	441.9944	.0010
.0768	39484.7426	3693.9546	.0010	.5032	1767.9745	589.3255	.0010
.0938	34917.4777	2799.2924	.0010	.5203	1473.3123	441.9944	.0010
.1109	35064.8088	2799.2924	.0010	.5374	883.9878	441.9944	.0010
.1280	33444.1665	2651.9613	.0010	.5544	294.6633	294.6633	.0010
.1450	33296.8353	2651.9613	.0010	.5715	1031.3189	441.9944	.0010
.1621	29908.2194	2504.6301	.0010	.5885	736.6566	294.6633	.0010
.1791	28729.5704	2504.6301	.0010	.6056	1473.3123	441.9944	.0010
.1962	25782.9479	2357.2990	.0010	.6227	736.6566	294.6633	.0010
.2132	25340.9546	2062.6368	.0010	.6397	294.6633	294.6633	.0010
.2303	19742.3718	1915.3056	.0010	.6568	1178.6500	441.9944	.0010
.2474	18121.7294	1767.9745	.0010	.6738	1473.3123	441.9944	.0010
.2644	17385.0738	1767.9745	.0010	.6909	1031.3189	441.9944	.0010
.2815	11639.1599	1473.3123	.0010	.7079	1178.6500	441.9944	.0010
.2985	13996.4579	1620.6434	.0010	.7250	2946.6235	736.6566	.0010
.3156	13112.4712	1473.3123	.0010	.7421	1915.3056	589.3255	.0010
.3327	11197.1665	1473.3123	.0010	.7591	2504.6301	736.6566	.0010
.3497	9871.1864	1325.9811	.0010	.7762	1915.3056	589.3255	.0010
.3668	6187.9083	1031.3189	.0010	.7932	736.6566	294.6633	.0010
.3838	7366.5573	1178.6500	.0010	.8103	1178.6500	441.9944	.0010
.4009	5598.5838	1031.3189	.0010	.8274	1178.6500	441.9944	.0010
.4179	3683.2791	683.9878	.0010	.8444	589.3255	294.6633	.0010
.4350	3683.2791	683.9878	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BOWLER NP 637 133 72	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH VS COST PI+ ,PI+

DATA AT .7760 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0758	28763.7840	1832.7960	.0010	.3655	5639.3702	422.9537	.0010
.0847	31721.4528	1832.7960	.0010	.3833	4652.4806	422.9537	.0010
.0981	29042.7524	1409.8433	.0010	.4056	4088.5437	422.9537	.0010
.1159	30311.6165	1550.8275	.0010	.4234	4229.5279	422.9537	.0010
.1337	27209.9574	1409.8433	.0010	.4457	3665.5910	281.9695	.0010
.1515	24813.2255	1268.8591	.0010	.4769	3101.6541	281.9695	.0010
.1694	21993.5409	1127.8748	.0010	.5081	2960.5698	281.9695	.0010
.1916	19455.8248	986.8906	.0010	.5348	3242.6383	281.9695	.0010
.2139	16495.1559	845.9064	.0010	.5705	3524.6068	140.9852	.0010
.2362	16777.1244	845.9064	.0010	.6017	4088.5437	281.9695	.0010
.2540	15367.2921	845.9064	.0010	.6329	5075.4333	281.9695	.0010
.2763	12265.6290	845.9064	.0010	.6685	5216.4175	281.9695	.0010
.2941	9586.9287	704.9222	.0010	.7042	7049.2125	422.9537	.0010
.3164	8459.0548	1127.8748	.0010	.7398	7331.1810	422.9537	.0010
.3387	6908.2283	422.9537	.0010	.7799	6908.2283	563.9379	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
ALBROW NP 625 11 70	COUNTERS	5.0 P/C	DSIG/DOH VS COST PI+ ,PI+

DATA AT .7771 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1304	25128.0343	647.1956	.0010	.5444	126.6261	267.3203	.0010
.1572	22497.0535	661.2650	.0010	.5895	1013.0009	253.2509	.0010
.1907	22370.4180	548.7094	.0010	.6435	1800.8903	225.1123	.0010
.2251	18304.3529	675.3345	.0010	.7074	2222.9743	253.2509	.0010
.2626	14744.7778	816.0290	.0010	.7596	2405.8767	281.3898	.0010
.3050	11185.2130	900.4452	.0010	.7981	3278.1832	295.4592	.0010
.3519	6978.4465	1224.0426	.0010	.8262	2912.3771	323.5981	.0010
.3988	3376.6689	1463.2237	.0010	.8463	2124.4877	393.9454	.0010
.4439	2363.6687	2011.9320	.0010	.8610	1702.4046	408.0149	.0010
.4957	1561.7095	323.5981	.0010	.8753	1758.6827	379.8760	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OGDEN PR 137 1115 65	COUNTERS	NOT GIVEN	DSIG/DOH VS COST PI+ ,PI+

DATA AT .8070 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0282	50863.4651	13216.4917	.0010	.4801	3070.4988	934.5003	.0010
.0471	56737.4609	10145.9938	.0010	.4989	3070.4988	934.5003	.0010
.0659	44455.4696	6140.9967	.0010	.5177	801.3004	534.0006	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT .8L7 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0847	32306.9782	3337.4986	.0010	.5366	1335.0001	667.5005	.0010
.1036	30037.4796	3203.9987	.0010	.5554	.0010	267.0008	.0010
.1224	24430.4837	2803.4990	.0010	.5742	801.0004	534.0006	.0010
.1412	22828.4849	2669.9991	.0010	.5930	534.0006	400.5007	.0010
.1600	22027.4854	2669.9991	.0010	.6119	534.0006	400.5007	.0010
.1789	18422.988J	2402.9993	.0010	.6307	534.0006	400.5007	.0010
.1977	20825.9863	2536.4992	.0010	.6495	1735.4998	801.0004	.0010
.2165	18689.9878	2402.9993	.0010	.6683	1068.0002	534.0006	.0010
.2353	14951.9904	2602.4996	.0010	.6872	2536.4992	801.0004	.0010
.2542	19223.9874	2269.4994	.0010	.7060	1335.0001	667.5005	.0010
.2730	11614.4328	1868.9997	.0010	.7248	801.0004	534.0006	.0010
.2918	12548.9921	1868.9997	.0010	.7436	2002.4996	801.0004	.0010
.3106	10012.4939	1601.9999	.0010	.7625	1735.4998	667.5005	.0010
.3295	10813.4934	1735.4998	.0010	.7813	1735.4998	667.5005	.0010
.3483	6941.9961	1335.0001	.0010	.8001	2002.4996	801.0004	.0010
.3671	5606.9970	1201.5002	.0010	.8189	3604.4985	1068.0002	.0010
.3859	6941.9961	1335.0001	.0010	.8378	3604.4985	1068.0002	.0010
.4048	3337.4986	934.5003	.0010	.8566	2002.4996	801.0004	.0010
.4236	3070.4988	934.5003	.0010	.8754	3337.4986	934.5003	.0010
.4424	4405.4979	1068.0002	.0010	.8942	2002.4996	667.5005	.0010
.4612	2803.4990	934.5003	.0010	.9131	1068.0002	534.0006	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BONLER NP 837 133 72	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM VS COST PI+ ,PI+

DATA AT .8150 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1145	22913.4977	1448.5554	.0010	.3913	4213.9774	263.3745	.0010
.1336	20806.5095	1448.5554	.0010	.4247	3950.5039	526.7480	.0010
.1527	18172.7742	1053.4951	.0010	.4485	3160.4833	526.7480	.0010
.1718	18172.7742	921.8083	.0010	.4676	2238.6760	263.3745	.0010
.1861	17646.0272	1843.6157	.0010	.5010	1580.2421	131.6878	.0010
.1956	16724.2198	1053.4951	.0010	.5439	1053.4951	131.6878	.0010
.2052	13827.1111	1053.4951	.0010	.5821	1053.4951	131.6878	.0010
.2195	13300.3640	658.4348	.0010	.6203	921.8083	131.6878	.0010
.2433	12641.9302	658.4348	.0010	.6537	1448.5554	131.6878	.0010
.2624	10798.3155	790.1216	.0010	.6871	1975.3024	131.6878	.0010
.2863	11193.3756	790.1216	.0010	.7252	2633.7362	263.3745	.0010
.3054	8691.3273	1053.4951	.0010	.7682	3687.2303	526.7480	.0010
.3245	8427.9538	790.1216	.0010	.8111	4213.9774	658.4348	.0010
.3531	6057.5921	526.7480	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
ALBROW NP 825 11 70	COUNTERS	5.0 P/C	DSIG/DOM VS COST PI+ ,PI+

DATA AT .8259 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1633	18437.6081	646.4809	.0010	.6492	1486.9045	297.3816	.0010
.2027	15787.0396	568.9033	.0010	.7275	2689.3576	323.2408	.0010
.2435	13459.7080	594.7625	.0010	.7756	3413.4130	284.4520	.0010
.2960	8973.1422	620.6217	.0010	.8310	3452.2018	297.3816	.0010
.3387	7848.2667	633.5513	.0010	.8718	3516.8498	349.1000	.0010
.3912	4888.6020	646.4809	.0010	.9015	2521.2733	413.7480	.0010
.4427	2017.0184	930.9317	.0010	.9228	3090.1754	452.5368	.0010
.5487	1680.8491	336.1704	.0010	.9398	2404.9068	581.8329	.0010
.6011	1461.0457	271.5224	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
HELLAND PR 134 1062 64	COUNTERS	NOT GIVEN	DSIG/DOM VS COST PI+ ,PI+

DATA AT .8500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0379	28208.0501	2485.2924	.0010	.5436	994.1176	497.0593	.0010
.0632	25722.7612	2485.2924	.0010	.5688	994.1176	497.0593	.0010
.0885	21249.2304	2236.7620	.0010	.5941	621.3239	372.7947	.0010
.1138	25474.2258	2485.2924	.0010	.6194	745.5884	372.7947	.0010
.1391	18142.6151	1988.2341	.0010	.6447	2112.4987	745.5884	.0010
.1643	16278.6512	1988.2341	.0010	.6700	2485.2924	745.5884	.0010
.1896	16651.4412	1988.2341	.0010	.6953	2236.7620	745.5884	.0010
.2149	16899.9766	1988.2341	.0010	.7205	2858.0862	869.8530	.0010
.2402	13793.3623	1739.7050	.0010	.7458	3727.3357	994.1176	.0010
.2655	11432.3391	1615.4404	.0010	.7711	2485.2924	745.5884	.0010
.2907	10313.9580	1615.4404	.0010	.7964	5591.9042	1118.3821	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT .850 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.3160	9444.1060	1491.1746	.0010	.8217	7331.6083	1242.6467	.0010
.3413	7083.0791	1242.6467	.0010	.8469	6337.4917	1242.6467	.0010
.3666	6461.7562	1242.6467	.0010	.8722	2236.7620	745.5884	.0010
.3919	4224.9940	994.1176	.0010	.8975	2361.3279	745.5884	.0010
.4172	3479.4065	994.1176	.0010	.9228	3976.4648	994.1176	.0010
.4424	1615.4404	621.3239	.0010	.9481	2361.0279	745.5884	.0010
.4677	2361.0279	745.5884	.0010	.9733	1491.1746	621.3239	.0010
.4930	2485.2924	745.5884	.0010	.9986	1491.1746	621.3239	.0010
.5183	2112.4987	745.5884	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DEBAISIEUX NP B5 147 68	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM VS COST PI+ ,PI+

DATA AT .8700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0992	19619.2585	1685.0906	.0010	.4959	1925.8177	240.7281	.0010
.1201	19137.8043	1683.2729	.0010	.5377	1444.3635	481.4552	.0010
.1410	17693.4418	962.9093	.0010	.5742	1324.0000	240.7281	.0010
.1618	15647.2616	1683.2729	.0010	.6108	1564.7271	240.7281	.0010
.1827	15767.6251	842.5458	.0010	.6473	1324.0000	240.7281	.0010
.2036	14443.6262	722.1823	.0010	.6891	1809.4541	240.7281	.0010
.2297	11438.5376	601.8187	.0010	.7256	2527.5354	240.7281	.0010
.2662	10230.9022	481.4552	.0010	.7622	2407.2719	240.7281	.0010
.3184	6740.3594	722.1823	.0010	.7987	2888.7260	361.0916	.0010
.3654	5055.2698	601.8187	.0010	.8405	3490.5437	361.0916	.0010
.4124	4092.3615	601.8187	.0010	.8770	4212.7250	361.0916	.0010
.4542	3490.5437	481.4552	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
ALBROM NP B25 11 70	COUNTERS	5.0 P/C	DSIG/DOM VS COST PI+ ,PI+

DATA AT .8750 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1360	18164.3469	1313.6614	.0010	.7545	2651.2070	203.0211	.0010
.1952	14832.4220	835.9668	.0010	.8192	3236.3811	226.9058	.0010
.2647	11512.4454	585.1770	.0010	.8823	4323.1370	298.5601	.0010
.3294	8168.5810	394.0991	.0010	.9302	3821.5574	286.6177	.0010
.4030	4968.0252	298.5601	.0010	.9676	4179.8286	334.3872	.0010
.4656	3188.6116	214.9635	.0010	.9975	4418.6760	382.1567	.0010
.5409	1970.4919	191.0790	.0010	1.0202	3284.1506	382.1567	.0010
.6124	1767.4714	191.0790	.0010	1.0333	3164.7269	656.8313	.0010
.6824	2328.7634	226.9058	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DUKE PR 149 1077 66	COUNTERS	NOT GIVEN	DSIG/DOM VS COST PI+ ,PI+

DATA AT .8950 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0678	23738.5039	1389.5719	.0010	.5833	1736.9646	347.3937	.0010
.0950	21538.3500	1273.7743	.0010	.6104	1505.3695	347.3937	.0010
.1221	19338.1961	1157.9768	.0010	.6376	1621.1671	347.3937	.0010
.1492	18180.2203	1157.9768	.0010	.6647	2084.3574	347.3937	.0010
.1764	17138.0421	1157.9768	.0010	.6918	1505.3695	347.3937	.0010
.2035	17138.0421	1157.9768	.0010	.7190	2547.5477	463.1913	.0010
.2306	13200.9246	1042.1792	.0010	.7461	3358.1307	578.9889	.0010
.2577	12621.9367	926.3816	.0010	.7732	2547.5477	463.1913	.0010
.2849	9495.4022	810.5840	.0010	.8003	3010.7380	463.1913	.0010
.3120	8916.4143	810.5840	.0010	.8275	3242.3331	463.1913	.0010
.3391	8569.0216	810.5840	.0010	.8546	4979.2967	578.9889	.0010
.3663	6137.2725	694.7865	.0010	.8817	4516.1864	578.9889	.0010
.3934	4979.2967	578.9889	.0010	.9089	4052.3161	578.9889	.0010
.4205	5442.4870	694.7865	.0010	.9360	4168.7137	578.9889	.0010
.4477	3937.1186	578.9889	.0010	.9631	5210.8919	578.9889	.0010
.4748	2547.5477	463.1913	.0010	.9903	3589.7258	578.9889	.0010
.5019	2315.9525	463.1913	.0010	1.0174	4284.5113	578.9889	.0010
.5290	1968.5598	347.3937	.0010	1.0445	2200.1549	347.3937	.0010
.5562	1621.1671	347.3937	.0010	1.0716	1273.7743	347.3937	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BAKER NP B18 29 70	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM VS COST PI+ ,PI+

REACTION PI+ P = P PI+

DATA AT .9250 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1039	26120.9620	1993.1224	.0010	.7452	3078.2646	243.6046	.0010
.1446	20274.4734	996.5617	.0010	.8218	3720.4929	243.6046	.0010
.2168	17295.8632	996.5617	.0010	.8905	4584.1791	310.0420	.0010
.2928	12135.8943	764.0305	.0010	.9573	4927.4390	343.2607	.0010
.3641	9223.7243	431.8439	.0010	1.0072	5004.9493	354.3336	.0010
.4441	5757.9165	343.2607	.0010	1.0461	5226.4073	387.5523	.0010
.5116	3299.7226	221.4588	.0010	1.0777	5148.8970	442.9168	.0010
.5943	2336.3824	210.3859	.0010	1.1017	4019.4612	431.8439	.0010
.6696	2424.9658	232.5317	.0010	1.1153	6654.8114	952.2699	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
DUKE	PR	149 1077	66	COUNTERS	NOT GIVEN	DSIG/DOM	VS COST PI+ ,PI+

DATA AT .9450 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0730	25817.9960	1290.9008	.0010	.6279	1613.6257	322.7259	.0010
.1022	25495.2711	1183.3258	.0010	.6571	2366.6505	322.7259	.0010
.1314	24419.5213	1183.3258	.0010	.6863	2689.3755	430.3009	.0010
.1606	20008.9471	1075.7508	.0010	.7155	2259.0756	322.7259	.0010
.1898	19471.0723	1075.7508	.0010	.7447	2366.6505	322.7259	.0010
.2190	17211.9977	968.1758	.0010	.7739	3119.6754	430.3009	.0010
.2482	15275.6481	968.1758	.0010	.8031	3012.1004	430.3009	.0010
.2774	13339.2984	860.6008	.0010	.8323	2689.3755	430.3009	.0010
.3066	10865.0739	860.6008	.0010	.8615	3549.9753	430.3009	.0010
.3359	9466.5392	753.0259	.0010	.8907	3765.1253	430.3009	.0010
.3651	7315.0996	645.4509	.0010	.9199	4733.3001	537.8759	.0010
.3943	7960.5495	645.4509	.0010	.9491	4518.1501	537.8759	.0010
.4235	6131.7748	645.4509	.0010	.9783	4087.8502	537.8759	.0010
.4527	5916.6249	645.4509	.0010	1.0075	5809.0499	537.8759	.0010
.4819	4410.5752	537.8759	.0010	1.0367	5163.6000	537.8759	.0010
.5111	4625.7251	537.8759	.0010	1.0659	4625.7251	537.8759	.0010
.5403	2796.9505	430.3009	.0010	1.0952	4625.7251	537.8759	.0010
.5695	2259.0756	322.7259	.0010	1.1244	4303.0002	537.8759	.0010
.5987	1613.6257	322.7259	.0010	1.1536	2689.3755	430.3009	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BAKER	NP	B18 29 70	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI+ ,PI+	

DATA AT .9494 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0735	23519.7081	4276.3096	.0010	.6465	2138.1564	748.3554	.0010
.1763	14967.0834	2351.9719	.0010	.7640	3207.2319	962.1709	.0010
.2939	12828.9312	2138.1564	.0010	.8816	3207.2319	962.1709	.0010
.4114	4276.3096	1069.0787	.0010	.9991	3207.2319	962.1709	.0010
.5290	4276.3096	1069.0787	.0010	1.1167	3207.2319	962.1709	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BARLOUTAUD	PL	1 207 62	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI+ ,PI+	

DATA AT .9500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1094	25090.2861	1495.3777	.0010	.7771	3332.5526	277.7136	.0010
.1521	24096.9259	1174.9394	.0010	.8558	3962.7471	245.6698	.0010
.2278	16908.4304	1174.9394	.0010	.9266	5062.9173	309.7574	.0010
.3072	11589.1613	854.5017	.0010	.9950	5297.9051	352.4825	.0010
.3818	8961.5784	437.9326	.0010	1.0455	5148.8970	373.8450	.0010
.4655	4966.7859	320.4387	.0010	1.0860	4496.8103	384.5263	.0010
.5354	3065.5210	224.3073	.0010	1.1181	5212.4550	437.9326	.0010
.6213	2680.9979	224.3073	.0010	1.1426	5543.5741	523.3827	.0010
.6988	3097.5648	256.3511	.0010	1.1565	6002.8684	950.6332	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
DUKE	PR	149 1077	66	COUNTERS	NOT GIVEN	DSIG/DOM	VS COST PI+ ,PI+

REACTION PI+ P = P PI+

DATA AT .9590 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1013	30374.1084	1476.5201	.0010	.4885	4218.6270	1371.0545	.0010
.1251	29530.3832	1476.5201	.0010	.5183	3058.5349	949.1919	.0010
.1489	28581.1924	1476.5201	.0010	.5481	2847.5736	527.3293	.0010
.1728	26471.8793	1371.0545	.0010	.5839	2214.7797	316.3980	.0010
.1966	22675.1159	1265.5888	.0010	.6196	2847.5736	316.3980	.0010
.2204	21198.5968	1054.6575	.0010	.6732	3163.9705	316.3980	.0010
.2443	18034.6273	949.1919	.0010	.7090	3269.4362	421.8636	.0010
.2741	15819.8486	1160.1232	.0010	.7447	3480.3675	316.3980	.0010
.2919	17401.8334	1054.6575	.0010	.7924	4324.0927	316.3980	.0010
.3158	13394.1386	632.7949	.0010	.8341	4113.1614	316.3980	.0010
.3396	12234.0165	632.7949	.0010	.8758	4956.8866	316.3980	.0010
.3694	10546.5661	527.3293	.0010	.9175	4851.4209	316.3980	.0010
.3992	7171.6653	1054.6575	.0010	.9592	4429.5583	527.3293	.0010
.4230	6117.0087	1054.6575	.0010	1.0009	4851.4209	527.3293	.0010
.4647	5906.0774	316.3980	.0010	1.0426	4007.6957	1371.0545	.0010

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
ALBROW NP 825 11 70 COUNTERS 5.0 P/C DSIG/DOH VS COST PI+ ,PI+

DATA AT .9700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0968	24095.9933	1246.3454	.0010	.3751	9659.1703	519.3112	.0010
.1210	24823.0275	1246.3454	.0010	.4356	6751.0333	311.5871	.0010
.1452	24095.9933	1246.3454	.0010	.5626	2908.1380	311.5871	.0010
.1754	23992.1312	1246.3454	.0010	.6171	3115.8621	207.7251	.0010
.1936	19006.7535	934.7593	.0010	.6655	2700.4139	207.7251	.0010
.2238	19422.2017	934.7593	.0010	.7199	2700.4139	207.7251	.0010
.2480	18591.3054	934.7593	.0010	.7804	2388.8278	103.8630	.0010
.2722	15059.9962	934.7593	.0010	.8469	3531.3102	207.7251	.0010
.3025	13190.4795	623.1732	.0010	.9014	4154.4824	207.7251	.0010
.3267	12878.8934	623.1732	.0010	.9498	4466.0685	207.7251	.0010
.3509	9970.7564	727.0352	.0010	1.0163	4569.9366	207.7251	.0010

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
ALBROW NP 825 11 70 COUNTERS 5.0 P/C DSIG/DOH VS COST PI+ ,PI+

DATA AT .9750 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1151	25941.7570	1547.2232	.0010	.8095	3486.4065	247.5564	.0010
.1600	19536.2534	1547.2232	.0010	.8905	4033.0918	237.2416	.0010
.2392	16751.2580	1650.3711	.0010	.9631	4672.6184	268.1860	.0010
.3222	13625.8635	649.8339	.0010	1.0327	5105.8327	299.1305	.0010
.4001	9427.7408	391.9638	.0010	1.0852	5549.3698	330.0749	.0010
.4867	4899.5364	288.8157	.0010	1.1263	5167.7216	350.7046	.0010
.5598	3537.9806	206.2971	.0010	1.1590	6580.8515	453.8527	.0010
.6488	2393.0382	189.6675	.0010	1.1837	5961.9625	474.4824	.0010
.7285	2485.8716	206.2971	.0010	1.1979	6333.2959	866.4454	.0010

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
DUKE PR 149 1077 66 COUNTERS NOT GIVEN DSIG/DOH VS COST PI+ ,PI+

DATA AT .9950 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0783	29010.5778	1304.9750	.0010	.6729	2208.4186	401.5315	.0010
.1095	27304.0733	1304.9750	.0010	.7042	2409.1838	401.5315	.0010
.1408	24493.3600	1204.5924	.0010	.7355	2007.6534	401.5315	.0010
.1721	23288.7685	1204.5924	.0010	.7668	2810.7143	401.5315	.0010
.2034	20277.2900	1104.2098	.0010	.7981	2108.0360	401.5315	.0010
.2347	17366.1940	1003.8272	.0010	.8294	2911.0959	401.5315	.0010
.2660	15458.9243	1003.8272	.0010	.8607	3413.0100	501.9141	.0010
.2973	13049.7414	903.4446	.0010	.8920	3814.5405	501.9141	.0010
.3286	12547.8283	903.4446	.0010	.9232	3714.1579	501.9141	.0010
.3599	11242.8543	803.0619	.0010	.9545	4216.0710	501.9141	.0010
.3912	8733.2888	702.6793	.0010	.9858	5320.2798	602.2967	.0010
.4225	7528.6974	702.6793	.0010	1.0171	5219.8972	602.2967	.0010
.4538	6826.0191	602.2967	.0010	1.0484	4216.0710	501.9141	.0010
.4851	5420.6624	602.2967	.0010	1.0797	4316.4536	501.9141	.0010
.5164	3613.7753	501.9141	.0010	1.1110	4818.3667	501.9141	.0010
.5477	4015.3057	501.9141	.0010	1.1423	4617.6015	501.9141	.0010
.5790	2911.0969	401.5315	.0010	1.1736	4316.4536	501.9141	.0010
.6103	2710.3317	401.5315	.0010	1.2049	5621.4276	602.2967	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT .995 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.6416	1806.8881	301.1489	.0010	1.2362	4717.9841	501.9141	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BAKER	NP	B18	29 70	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI+ ,PI+

DATA AT 1.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1210	27760.0660	1395.9814	.0010	.9254	4257.7396	279.1969	.0010
.1682	20740.2825	1196.5552	.0010	.9998	4397.3376	309.1108	.0010
.3373	12404.2789	717.9334	.0010	1.0714	4826.1031	358.9673	.0010
.4189	8495.5380	428.7663	.0010	1.1247	4646.6199	368.9385	.0010
.5086	4915.8447	319.0821	.0010	1.1664	5085.3567	418.7950	.0010
.5843	3499.9215	239.3118	.0010	1.1999	6640.8780	508.5366	.0010
.6767	2642.3905	219.3692	.0010	1.2252	6949.9880	598.2782	.0010
.7591	2881.7115	249.2831	.0010	1.2396	8326.0260	1156.6705	.0010
.8421	3679.4447	289.1682	.0010				
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
DUKE	PR	149	1677 66	COUNTERS	NOT GIVEN	DSIG/DOM	VS COST PI+ ,PI+

DATA AT 1.0029 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1841	23232.5208	804.5473	.0010	.8192	943.6045	407.2404	.0010
.2360	17759.6125	715.1530	.0010	.8799	1708.4207	417.1731	.0010
.2910	15385.7108	645.6246	.0010	.9754	2632.1572	456.9038	.0010
.3479	12703.8839	655.5573	.0010	1.0343	3943.2702	466.8365	.0010
.4240	8482.5023	423.0662	.0010	1.1007	3824.0781	446.9711	.0010
.4770	5472.9020	319.0662	.0010	1.1488	4439.9039	526.4325	.0010
.5478	2761.2820	893.9414	.0010	1.1836	4102.1930	625.7590	.0010
.6155	2522.8996	1152.1910	.0010	1.2082	5711.2862	685.3549	.0010
.7528	1400.5077	387.3751	.0010	1.2285	8482.5023	993.2679	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
HELLAND	PR	134	1062 64	COUNTERS	NOT GIVEN	DSIG/DOM	VS COST PI+ ,PI+

DATA AT 1.0200 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0809	26124.2352	2330.7875	.0010	.6955	1845.2073	485.5815	.0010
.1132	26998.2803	2427.9042	.0010	.7279	1553.8586	485.5815	.0010
.1456	20879.9642	1845.2073	.0010	.7602	1942.3234	485.5815	.0010
.1779	21074.1917	1845.2073	.0010	.7926	2816.3664	679.8137	.0010
.2103	16898.2053	1553.8586	.0010	.8249	2233.6715	582.6976	.0010
.2426	16024.1577	1456.7427	.0010	.8573	1845.2073	485.5815	.0010
.2750	11653.9342	1262.5105	.0010	.8896	2525.0180	582.6976	.0010
.3073	14276.0650	1456.7427	.0010	.9220	2816.3664	679.8137	.0010
.3397	11751.0432	1262.5105	.0010	.9543	2622.1342	582.6976	.0010
.3720	11362.5787	1262.5105	.0010	.9866	2427.9042	582.6976	.0010
.4044	9323.1471	1165.3940	.0010	1.0190	4078.8761	776.9297	.0010
.4367	6701.0116	971.1618	.0010	1.0513	2816.3664	679.8137	.0010
.4691	5632.7342	874.0459	.0010	1.0837	1845.2073	485.5815	.0010
.5014	4564.4568	776.9297	.0010	1.1160	4564.4568	776.9297	.0010
.5338	4078.8761	776.9297	.0010	1.1484	3496.1793	679.8137	.0010
.5661	2719.2503	582.6976	.0010	1.1807	3107.7148	679.8137	.0010
.5985	3107.7148	679.8137	.0010	1.2131	3787.5277	776.9297	.0010
.6308	3010.5387	679.8137	.0010	1.2454	4078.8761	776.9297	.0010
.6632	1845.2073	485.5815	.0010	1.2778	4370.2245	776.9297	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
METZGER	PR	164	1680 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI+ ,PI+

DATA AT 1.0300 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1281	26190.3078	1437.9755	.0010	.8817	3662.0411	258.8363	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 1.030 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1779	24438.4134	1654.5154	.0010	.9671	3508.6571	239.6633	.0010
.2649	16958.5774	958.6504	.0010	1.0439	4371.4420	268.4228	.0010
.3562	12309.0580	584.7772	.0010	1.1177	4563.1720	306.7688	.0010
.4418	8330.6659	383.4607	.0010	1.1725	4352.2590	325.9418	.0010
.5354	4543.9990	278.0093	.0010	1.2152	5147.9484	383.4667	.0010
.6146	3038.9187	210.9038	.0010	1.2494	6585.9231	469.7392	.0010
.7106	2147.3764	182.1443	.0010	1.2751	6873.5181	546.4312	.0010
.7961	3000.5727	239.6633	.0010	1.2897	9241.3832	1064.1018	.0010

DUKE	REFERENCE	PR	149	1077	66	TECHNIQUE	COUNTERS	SYSTEMATIC ERROR	NOT GIVEN	MEASURED VARIABLES	DSIG/DOH	VS COST PI+ ,PI+
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DATA AT 1.0302 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0820	24536.2135	3450.4035	.0010	.7211	2683.6470	862.6621	.0010
.1967	17252.0135	2683.6470	.0010	.8522	4025.4769	1150.1348	.0010
.3278	13801.6139	2396.1152	.0010	.9833	4313.0046	1150.1348	.0010
.4589	5750.6731	1533.5141	.0010	1.1145	3354.5589	958.4467	.0010
.5900	2108.5815	766.7575	.0010	1.2456	5175.5357	1437.6695	.0010

BARLOUTAUD	REFERENCE	PL	1	207	62	TECHNIQUE	BUBBLE CHAMBER	SYSTEMATIC ERROR	NOT GIVEN	MEASURED VARIABLES	DSIG/DOH	VS COST PI+ ,PI+
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DATA AT 1.0400 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0830	29434.2473	1419.6592	.0010	.6805	2271.4541	378.5765	.0010
.1162	25364.5665	1325.0153	.0010	.6971	2271.4541	283.9326	.0010
*.1328	26594.9309	1325.0153	.0010	.7137	2271.4541	378.5765	.0010
.1494	23093.1074	1230.3714	.0010	*.7303	2460.7418	189.2888	.0010
*.1726	23282.3952	1135.7275	.0010	*.7469	1798.2347	378.5765	.0010
.1826	20443.0788	1135.7275	.0010	*.7767	3407.1806	189.2888	.0010
*.2058	21389.5176	1041.0837	.0010	*.7801	2366.0980	378.5765	.0010
.2158	20348.4349	1135.7275	.0010	.8133	1608.9469	283.9326	.0010
*.2390	17793.0502	851.7959	.0010	*.8299	3691.1123	189.2888	.0010
.2490	18360.9135	1135.7275	.0010	.8465	3217.8929	473.2204	.0010
*.2722	13723.3634	662.5082	.0010	*.8796	2555.3857	378.5765	.0010
.2822	15994.8165	1041.0837	.0010	*.8830	4732.1949	283.9326	.0010
*.2988	12966.2124	662.5082	.0010	*.9128	3312.5368	473.2204	.0010
.3154	11451.9103	851.7959	.0010	*.9234	5205.4143	283.9326	.0010
*.3319	10550.4715	567.8643	.0010	*.9460	3447.1806	473.2204	.0010
.3485	12492.9930	946.4398	.0010	*.9693	5867.9215	283.9326	.0010
*.3784	8139.3746	378.5765	.0010	*.9792	3975.0439	473.2204	.0010
.3817	10316.1838	851.7959	.0010	1.0124	3312.5368	473.2204	.0010
*.4149	10410.8277	851.7959	.0010	*.10157	6151.8531	283.9326	.0010
.4315	6151.8531	378.5765	.0010	*.10456	4353.6194	567.8643	.0010
*.4481	7382.2235	662.5082	.0010	*.10556	5583.9898	283.9326	.0010
.4813	6246.4370	662.5082	.0010	*.10788	3691.1123	473.2204	.0010
*.4913	4353.6194	473.2204	.0010	*.11087	4448.2633	283.9326	.0010
.5145	5583.9898	662.5082	.0010	*.11120	5678.6337	662.5082	.0010
*.5477	4258.9755	567.8643	.0010	*.11452	3312.5368	473.2204	.0010
.5510	2933.9612	283.9326	.0010	*.11618	5110.7704	283.9326	.0010
*.5809	3501.8245	473.2204	.0010	*.11784	3785.7561	473.2204	.0010
.6041	2460.7418	378.5765	.0010	*.12116	4164.3317	473.2204	.0010
*.6141	3691.1123	473.2204	.0010	*.12448	4732.1949	567.8643	.0010
.6473	2271.4541	378.5765	.0010	*.12780	6341.1409	662.5082	.0010
*.6572	2460.7418	189.2888	.0010	*.13112	5962.5654	662.5082	.0010

BAKER	ALBROW	REFERENCES	NP	B18	29	70	TECHNIQUES	BUBBLE CHAMBER	COUNTERS	SYSTEMATIC ERROR	NOT GIVEN	5.0 P/C	MEASURED VARIABLES	VS COST PI+ ,PI+
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DATA AT 1.0780 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1114	30688.4069	1624.6813	.0010	.5569	3159.1016	361.0411	.0010
.1392	25994.8860	1263.6412	.0010	.6196	2166.2414	361.0411	.0010
.1671	21752.6652	1083.1212	.0010	.6892	2617.5415	361.0411	.0010
*.1949	19496.1647	592.8612	.0010	*.7518	4151.9618	451.3011	.0010
.2297	18052.0445	902.6012	.0010	.8075	4783.7819	451.3011	.0010
.2576	15253.9439	812.3412	.0010	.8632	5596.1221	361.0411	.0010
*.2924	13539.0036	722.0811	.0010	*.9119	6859.7623	361.0411	.0010
.3242	11282.5032	722.0811	.0010	.9607	7130.5424	361.0411	.0010
*.3550	9296.7828	631.8211	.0010	*.10094	8574.7026	541.5611	.0010
.3898	7672.1225	541.5611	.0010	*.10512	6498.7222	451.3011	.0010

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REACTION $\pi^+ p = p \pi^+$

CONTINUATION OF DATA AT 1.078 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.4246	6769.5023	451.3011	.0010	1.1138	6859.7623	361.0411	.0010
.4525	6769.5023	541.5611	.0010	1.1904	5235.9820	361.0411	.0010
.5082	4513.0019	451.3011	.0010	1.2461	3700.6617	361.0411	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
ALBROW	NP	825	11 70	COUNTERS	5.0 P/C	DSIG/DOH	VS COST π^+ , π^+

DATA AT 1.0800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1406	24319.7713	990.4395	.0010	.9485	3448.5273	198.0886	.0010
.1950	21150.3732	810.3599	.0010	1.0387	4087.8107	198.0886	.0010
.2897	15279.7689	630.2802	.0010	1.1190	4213.8665	225.1006	.0010
.3877	11417.0599	486.2163	.0010	1.1957	4538.0102	261.1166	.0010
.4801	7032.1156	288.1285	.0010	1.2522	4402.9503	261.1166	.0010
.5809	3736.6550	216.0966	.0010	1.2968	6059.6846	333.1485	.0010
.6652	2196.9743	144.0649	.0010	1.3322	7500.3232	396.1764	.0010
.7678	2250.9387	162.0727	.0010	1.3587	9184.0650	504.2243	.0010
.8584	3007.3318	189.0846	.0010	1.3739	12848.6870	1035.4594	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
DUKE	PR	149	1077 66	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST π^+ , π^+

DATA AT 1.1209 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1685	25158.8777	771.7457	.0010	.9738	3627.2002	368.7234	.0010
.2272	21180.1059	677.4214	.0010	1.0420	4304.6207	394.4482	.0010
.2902	15760.7414	600.2469	.0010	1.1489	4158.8467	445.8979	.0010
.3569	13016.7615	523.0724	.0010	1.2142	4561.8690	351.5735	.0010
.4250	10847.2986	668.8461	.0010	1.2867	4244.5961	403.0232	.0010
.5107	6662.7303	788.8953	.0010	1.3395	5110.6654	420.1731	.0010
.5789	3490.0011	737.4457	.0010	1.3776	5899.5603	557.3722	.0010
.6617	2298.0839	728.8710	.0010	1.4047	9158.3389	668.8461	.0010
.7408	2040.8374	1251.9424	.0010	1.4259	11216.0233	1063.2935	.0010
.8983	2118.0119	394.4482	.0010				
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
HELLAND	PR	134	1062 64	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST π^+ , π^+

DATA AT 1.1350 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0596	28260.2375	2699.4852	.0010	.7821	2108.9743	506.1546	.0010
.1117	24379.7266	1940.2564	.0010	.8565	2108.9743	506.1546	.0010
.1862	22692.5496	1771.5386	.0010	.9310	3036.9209	590.5135	.0010
.2607	14341.0178	1434.1029	.0010	1.0055	1940.2564	506.1546	.0010
.3352	12822.5528	1265.3850	.0010	1.0800	2108.9743	506.1546	.0010
.4097	10713.5795	1181.0261	.0010	1.1545	2952.5619	590.5135	.0010
.4841	5905.1246	843.5903	.0010	1.2290	3289.9977	674.8725	.0010
.5586	5652.0478	1112.3073	.0010	1.3034	4302.3049	759.2314	.0010
.6331	3880.5102	674.8725	.0010	1.3779	3796.1513	674.8725	.0010
.7076	2615.1262	506.1546	.0010	1.4524	3543.0745	674.8725	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BIDAN	NC	24	334 62	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST π^+ , π^+

DATA AT 1.1800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1665	21244.6177	1202.9806	.0010	1.0858	4747.7596	240.5968	.0010
.2304	17010.1305	1122.7821	.0010	1.1841	4827.9583	224.5571	.0010
.3414	11203.7477	962.3844	.0010	1.2713	4811.9186	240.5968	.0010
.4551	8517.0927	392.9743	.0010	1.3539	4090.1306	280.6961	.0010
.5607	4186.3690	224.5571	.0010	1.4147	4202.4088	280.6961	.0010
.6758	2718.7336	192.4776	.0010	1.4622	6600.3486	344.8551	.0010
.7716	2029.0267	144.3584	.0010	1.4998	8581.2535	457.1332	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 1.180 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.8863	2822.9918	176.4379	.0010	1.5279	11420.2880	577.4309	.0010
.9869	4451.0246	216.5372	.0010	1.5439	13826.2478	1122.7821	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
DUKE	PK	149	1077 66	COUNTERS	NOT GIVEN	DSIG/DT	VS COST PI+ ,PI+

DATA AT 1.1814 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0981	27226.7998	3203.1527	.0010	.8631	1121.1046	560.5528	.0010
.2354	17617.3424	2242.2067	.0010	1.0200	2382.3490	720.7105	.0010
.3923	8968.8286	1641.5776	.0010	1.1769	2562.5220	800.7893	.0010
.5492	4564.4328	1041.0258	.0010	1.3339	3603.5468	960.9462	.0010
.7062	2402.3644	960.9462	.0010	1.4908	6246.1483	1201.1835	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BARLOUTAUD	PL	1	207 62	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS COST PI+ ,PI+

DATA AT 1.2317 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1284	22914.1768	2503.8667	.0010	.9109	2579.7414	531.1243	.0010
.2484	14567.9499	1517.4963	.0010	1.0765	3414.3639	758.7487	.0010
.4141	8497.9737	910.4978	.0010	1.2422	3338.4892	758.7487	.0010
.5797	4173.1117	834.6231	.0010	1.4078	3110.8549	758.7487	.0010
.7453	3034.9301	606.9990	.0010	1.5734	4021.3621	758.7487	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
ROELLING	PR	116	1001 59	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS COST PI+ ,PI+

DATA AT 1.2420 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0837	44138.4736	4503.9268	.0010	.6278	2402.0947	225.1973	.0010
.1088	38958.9590	1951.7022	.0010	.6780	1876.6367	300.2627	.0010
.1339	33479.1826	1651.4455	.0010	.7199	1951.7022	225.1973	.0010
.1674	23195.2187	1125.9824	.0010	.7617	1426.2442	525.4590	.0010
.2009	19441.9473	975.8516	.0010	.8036	2327.0293	375.3281	.0010
.2427	15163.2178	750.6553	.0010	.8454	4128.5996	300.2627	.0010
.2762	10734.3574	525.4590	.0010	.9040	4729.1231	225.1973	.0010
.3097	7656.6748	525.4590	.0010	.9793	6230.4317	300.2627	.0010
.3432	7656.6748	600.5204	.0010	1.0547	8182.1328	375.3281	.0010
.3683	5855.1145	375.3281	.0010	1.1049	7656.6748	375.3281	.0010
.4102	4654.0576	300.2627	.0010	1.1551	9385.1797	450.3936	.0010
.4520	2927.5528	300.2627	.0010	1.2137	9233.0488	450.3936	.0010
.4939	3227.8145	300.2627	.0010	1.2723	10133.8340	525.4590	.0010
.5357	3002.6182	300.2627	.0010	1.3225	8857.7217	450.3936	.0010
.5776	2852.4373	300.2627	.0010	1.3895	7281.3477	375.3281	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
ALBROW	NP	625	11 70	COUNTERS	5.0 P/C	DSIG/DT	VS COST PI+ ,PI+

DATA AT 1.2800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0435	58337.9714	4195.8862	.0010	.9353	2173.7729	418.8673	.0010
.0609	42045.5152	3228.1605	.0010	.9788	3141.4985	505.5293	.0010
.0783	38824.5775	3062.0584	.0010	* 1.0087	4667.5290	231.0995	.0010
.1088	30497.8036	1567.1389	.0010	1.0223	2816.5160	476.6420	.0010
.1523	23174.8645	1364.9275	.0010	1.0658	3365.3754	505.5293	.0010
* .1949	19737.2700	1372.1492	.0010	1.1093	4426.9849	599.4132	.0010
.1958	20358.3494	1278.2655	.0010	* 1.1190	6745.1917	267.2087	.0010
.2393	15368.0625	1112.1633	.0010	1.1528	5791.3114	686.0752	.0010
* .2688	13678.1464	1227.7123	.0010	1.1963	5633.0311	671.6315	.0010
.2828	12710.4278	1011.0577	.0010	* 1.2273	7105.2834	288.8742	.0010
.3263	10060.0150	902.7302	.0010	1.2398	5791.3114	686.0752	.0010
.3698	7965.6833	601.6245	.0010	1.2833	5633.0311	671.6315	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 1.280 GEV/C

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
* .3962	7922.3452	1227.7123	.0010	1.3268	5394.7106	657.1878	.0010
.4133	6759.6371	736.6280	.0010	1.3330	7243.4947	267.2087	.0010
.4568	5633.0311	671.6315	.0010	* 1.3703	6680.1969	736.6280	.0010
.5003	4990.2879	635.5223	.0010	1.4138	4585.8652	606.6350	.0010
* .5262	5553.5392	332.2052	.0010	* 1.4269	6225.2197	281.6524	.0010
.5438	3459.2592	527.1948	.0010	1.4573	4268.1046	584.9695	.0010
.5873	2737.0759	469.4202	.0010	1.5008	3863.6819	556.0822	.0010
.6308	2975.3364	491.0857	.0010	* 1.5150	5004.7298	296.0960	.0010
.6466	2997.0601	194.9904	.0010	1.5443	4665.3054	613.8568	.0010
.6743	2412.0334	440.5328	.0010	* 1.5794	5755.8005	339.4270	.0010
.7178	1206.0472	310.5398	.0010	1.5878	5871.3516	686.0752	.0010
.7613	1610.4699	361.0927	.0010	* 1.6297	7879.1177	426.0890	.0010
* .7749	2101.5528	166.1030	.0010	1.6313	6116.8939	700.5188	.0010
.8048	1928.2305	397.2018	.0010	* 1.6695	10168.3407	512.7510	.0010
.8483	3365.3754	505.5293	.0010	1.6748	9092.2893	852.1773	.0010
.8483	2014.8925	404.4237	.0010	* 1.6993	13129.2924	671.6314	.0010
* .8822	2426.5353	158.8812	.0010	* 1.7160	17751.2505	1357.7053	.0010
.9135	1848.7304	382.7582	.0010	* 1.7183	10941.0786	938.8393	.0010

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
KALMUS * DUKE	PR PR	4 676 71 149 1077 66	BUBBLE CHAMBER COUNTERS
		7.0 P/C NOT GIVEN	DSIG/DOH VS COST PI+ ,PI+

DATA AT 1.3200 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0905	40411.9522	2013.6549	.0010	.7149	2013.6549	138.8737	.0010
.1086	33815.4397	1666.4732	.0010	.8958	2638.5820	138.8737	.0010
.1448	32010.1548	1597.0369	.0010	.9411	2499.7193	208.3100	.0010
.1719	24997.0342	1249.8552	.0010	1.0044	4443.9269	208.3100	.0010
.2081	20483.7220	1041.5461	.0010	1.0678	4582.7996	208.3100	.0010
.2534	16803.5358	833.2371	.0010	1.1311	5763.2174	277.7464	.0010
.2896	12429.163	624.9281	.0010	1.1854	6665.8899	347.1827	.0010
.3258	9443.3436	486.6554	.0010	1.2488	8193.4894	416.6191	.0010
.3710	7707.4350	416.6191	.0010	1.3211	8262.9257	416.6191	.0010
.4163	6110.3391	277.7464	.0010	1.3754	8262.9257	416.6191	.0010
.4615	4721.6723	416.6191	.0010	1.4388	7221.3806	347.1827	.0010
.4886	5207.7267	347.1827	.0010	1.4931	6318.7082	347.1827	.0010
.5248	3818.9398	208.3100	.0010	1.5564	5138.2903	277.7464	.0010
.5701	3194.0727	208.3100	.0010	1.6288	4721.6723	416.6191	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
ALBROW	NP	825 11 70	COUNTERS
			5.0 P/C
			DSIG/DOH
			VS COST PI+ ,PI+

DATA AT 1.3270 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0729	44899.7640	2965.7304	.0010	.6104	1448.3805	1448.3805	.0010
.0911	41106.3393	2069.1145	.0010	.7379	2138.0850	137.9419	.0010
.1184	39244.1371	1931.1736	.0010	.8563	2027.7895	275.8828	.0010
.1549	30553.9104	1517.3509	.0010	.9292	4552.0507	206.9124	.0010
.1913	21449.8110	1103.5282	.0010	.9930	4096.9030	275.8828	.0010
.2278	16139.0363	965.5873	.0010	1.0385	6690.1347	344.8533	.0010
.2642	11242.1044	551.7646	.0010	1.0932	6690.1347	344.8533	.0010
.2915	8414.3359	551.7646	.0010	1.1661	8552.3368	413.8237	.0010
.3280	6552.1338	344.8533	.0010	1.2390	9655.8540	482.7942	.0010
.3735	4000.2371	275.8828	.0010	1.3118	9448.9527	482.7942	.0010
.4191	3310.5326	206.9124	.0010	1.3938	9724.8345	482.7942	.0010
.4646	2000.1441	206.9124	.0010	1.4485	8828.2186	413.8237	.0010
.5102	1517.3509	206.9124	.0010	1.5123	7034.9869	344.8533	.0010
.5648	1862.2032	137.9419	.0010	1.5851	5448.6666	275.8828	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
ALEROW	NP	825 11 70	COUNTERS
			5.0 P/C
			DSIG/DOH
			VS COST PI+ ,PI+

DATA AT 1.3400 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0461	59149.3368	2649.9044	.0010	.9685	3038.1936	313.3572	.0010
.0646	45368.5268	2322.9240	.0010	.9915	3610.4092	340.6055	.0010
.0830	39666.8066	2173.0580	.0010	1.0377	4339.3029	367.8539	.0010
.1153	34298.8790	1042.2509	.0010	1.0838	4816.1493	388.2902	.0010
.1614	24387.2866	878.7607	.0010	1.1299	5224.8748	408.7265	.0010
.2075	17513.8868	742.5189	.0010	1.1760	6178.5675	442.7869	.0010
.2537	14250.8953	674.3980	.0010	1.2221	6587.2930	456.4111	.0010
.2998	10197.7012	565.4045	.0010	1.2683	7030.0789	470.0353	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 1.340 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.3459	8045.0804	504.0957	.0010	1.3144	6778.0315	463.2232	.0010
.3920	6873.4008	463.2232	.0010	1.3605	6273.9368	442.7869	.0010
.4381	5701.7211	422.3506	.0010	1.4066	6682.6622	463.2232	.0010
.4842	4339.3029	367.8539	.0010	1.4527	6205.8159	442.7869	.0010
.5304	3767.0873	347.4176	.0010	1.4988	5354.3045	408.7265	.0010
.5765	3010.9452	306.5451	.0010	1.5450	5163.5659	401.9144	.0010
.6226	2343.3003	272.4846	.0010	1.5911	3957.8258	354.2297	.0010
.6687	2282.0515	265.6725	.0010	1.6372	4972.8274	395.1023	.0010
.7148	919.6333	170.3033	.0010	1.6833	4564.1319	381.4781	.0010
.7425	1709.8358	231.6121	.0010	1.7294	7030.0789	470.0353	.0010
.8071	1934.6348	245.2363	.0010	1.7755	9564.1767	551.7804	.0010
.8532	1648.5270	231.6121	.0010	1.8217	15075.1583	715.2706	.0010
.8993	1771.1446	238.4242	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
KALMUS PR 4 676 71	BUBBLE CHAMBER	7.0 P/C	DSIG/DOH VS COST PI+ ,PI+

DATA AT 1.3600 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2188	15910.8582	1136.4909	.0010	1.3430	8403.3421	267.4103	.0010
.3013	8644.0074	935.9340	.0010	1.4549	7808.3528	240.6694	.0010
.4432	4358.7738	935.9340	.0010	1.5527	6431.1973	254.0399	.0010
.5863	3075.2084	213.9284	.0010	1.6457	5568.8017	274.0956	.0010
.7185	1932.0329	160.4466	.0010	1.7134	6197.2140	307.5218	.0010
.8581	2416.6807	160.4466	.0010	1.7660	7286.9826	340.9479	.0010
.9746	3101.9493	160.4466	.0010	1.8064	11244.5629	481.3377	.0010
1.1095	5662.3350	227.2989	.0010	1.8365	13898.6052	608.3572	.0010
1.2272	7340.3878	240.6694	.0010	1.8553	16612.8113	1176.6026	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DUKE PR 149 1077 66	COUNTERS	NOT GIVEN	DSIG/DOH VS COST PI+ ,PI+

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          PI+                PI+
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          P                    P
    
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DATA AT 1.4000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0293	68345.5563	3376.9997	.0010	.9506	3112.7689	373.7909	.0010
.0488	61456.2212	2861.4274	.0010	1.0237	2977.4311	360.9016	.0010
.0683	49346.7164	2571.4179	.0010	1.0481	3731.4556	406.0142	.0010
.0878	40788.2160	2126.7368	.0010	1.0968	3692.7877	406.0142	.0010
.1219	35071.8079	1250.2639	.0010	1.1456	4711.0430	457.5714	.0010
.1706	22891.4119	1011.8117	.0010	1.1943	5600.4053	496.2394	.0010
.2194	14358.6900	799.1381	.0010	1.2431	7424.2424	573.5752	.0010
.2681	9338.3046	644.4664	.0010	1.2918	7024.6738	560.6859	.0010
.3169	5291.0619	483.3500	.0010	1.3406	7778.5983	586.4645	.0010
.3656	4002.1311	418.9035	.0010	1.3893	8133.1543	599.3538	.0010
.4144	3067.6563	367.3463	.0010	1.4381	6270.6493	528.4626	.0010
.4631	1959.1758	296.4551	.0010	1.4868	6889.3361	554.2412	.0010
.5119	1778.7255	283.5658	.0010	1.5355	5291.0619	483.3500	.0010
.5606	1823.8381	283.5658	.0010	1.5843	5065.4990	476.9054	.0010
.6094	1643.3878	270.6765	.0010	1.6330	5110.6116	476.9054	.0010
.6581	1379.1569	244.8979	.0010	1.6818	4176.1368	431.7928	.0010
.7068	1598.2752	264.2318	.0010	1.7305	4846.3808	464.0161	.0010
.7556	1914.0632	290.0104	.0010	1.7793	3512.3374	393.1249	.0010
.8043	1733.6129	277.1211	.0010	1.8280	5600.4053	496.2394	.0010
.8531	2133.1815	309.3444	.0010	1.8768	8049.3738	599.3538	.0010
.9018	2223.4066	315.7890	.0010	1.9255	11871.0536	728.2469	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
KALMUS	PR 4 676 71	BUBBLE CHAMBER 7.0 P/C	DSIG/DOM VS COST PI+ ,PI+

DATA AT 1.4300 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0300	79872.6373	3997.0840	.0010	.9763	3281.7505	363.9426	.0010
.0501	70460.3540	3256.6510	.0010	1.0514	3482.5458	376.4923	.0010
.0701	67159.7800	3175.0779	.0010	1.0764	4524.1719	426.6912	.0010
.0901	54145.7296	2848.7854	.0010	1.1265	5044.9849	451.7906	.0010
.1252	37234.9339	1223.5978	.0010	1.1766	5521.8739	470.6152	.0010
.1752	26944.2307	1041.6270	.0010	1.2266	7448.2545	545.9134	.0010
.2253	17218.2046	828.2819	.0010	1.2767	7165.8860	533.3637	.0010
.2754	11250.8170	671.4105	.0010	1.3268	7805.9213	558.4631	.0010
.3254	7724.3482	558.4631	.0010	1.3768	8765.9742	589.8374	.0010
.3755	5885.8155	483.1649	.0010	1.4269	8565.1788	583.5626	.0010
.4256	3444.8967	370.2175	.0010	1.4770	8489.8806	583.5626	.0010
.4756	2240.1244	301.1941	.0010	1.5270	7849.8453	558.4631	.0010
.5257	2011.6799	282.3695	.0010	1.5771	7084.3129	533.3637	.0010
.5758	1964.0308	282.3695	.0010	1.6272	7009.0147	527.0889	.0010
.6258	2083.2530	288.6444	.0010	1.6772	5923.4646	489.4397	.0010
.6759	1443.2178	238.4455	.0010	1.7273	4524.1719	426.6912	.0010
.7260	1719.3114	263.5449	.0010	1.7774	4241.8034	414.1415	.0010
.7760	1800.8845	269.8198	.0010	1.8274	3965.7197	395.3169	.0010
.8261	1800.8845	269.8198	.0010	1.8775	5484.2248	470.6152	.0010
.8762	2240.1244	301.1941	.0010	1.9276	9688.3780	621.2117	.0010
.9262	2484.8438	313.7438	.0010	1.9776	13854.8821	796.9077	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
KALMUS	PR 4 676 71	BUBBLE CHAMBER 7.0 P/C	DSIG/DOM VS COST PI+ ,PI+

DATA AT 1.4438 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.2726	11134.0277	502.1480	.0010	1.4260	8400.1151	421.5564	.0010
.3649	5449.2268	390.5596	.0010	1.5142	7984.7557	471.1513	.0010
.4632	3174.0659	328.5663	.0010	1.6490	6763.4871	471.1513	.0010
.5645	1574.6351	347.1644	.0010	1.7281	5684.8820	402.9585	.0010
.6669	2888.8959	564.1414	.0010	1.8173	4351.9821	440.1546	.0010
.7926	2510.7356	601.3374	.0010	1.8801	4692.9063	526.9454	.0010
.8909	1177.8771	557.9422	.0010	1.9247	7203.6408	632.3344	.0010
1.0075	2244.1636	471.1513	.0010	1.9561	9323.8180	812.1155	.0010
1.1159	2392.9480	464.9520	.0010	1.9814	11946.1393	1115.8833	.0010
1.3277	7327.6248	402.9585	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
HELLAND	PR 134 1662 64	COUNTERS NOT GIVEN	DSIG/DOM VS COST PI+ ,PI+

REACTION PI+ P = P PI+

DATA AT 1.4800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
1.6415	5666.0010	1114.0010	.0010	1.8923	3865.0010	395.0010	.0010
1.6624	4648.0010	643.0010	.0010	1.9132	2856.0010	332.0010	.0010
1.6833	6241.0010	622.0010	.0010	1.9341	4111.0010	388.0010	.0010
1.7042	5809.0010	587.0010	.0010	1.9550	3916.0010	364.0010	.0010
1.7251	4505.0010	511.0010	.0010	1.9759	4314.0010	378.0010	.0010
1.7460	3983.0010	462.0010	.0010	1.9969	5467.0010	408.0010	.0010
1.7669	4496.0010	487.0010	.0010	2.0178	6662.0010	425.0010	.0010
1.7878	4580.0010	483.0010	.0010	2.0387	9160.0010	466.0010	.0010
1.8087	3586.0010	420.0010	.0010	2.0596	9321.0010	427.0010	.0010
1.8296	3107.0010	380.0010	.0010	2.0774	12621.0010	1875.0010	.0010
1.8505	3020.0010	365.0010	.0010	2.0805	12574.0010	1878.0010	.0010
1.8714	3009.0010	360.0010	.0010				

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
CARROL	PRL	20	607 68	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS -T PI+ ,P

DATA AT 1.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0425	31915.4561	2364.1088	.0010	1.0525	3427.9573	472.8226	.0010
.0851	39244.1903	4610.0112	.0010	1.1056	3605.2654	354.6172	.0010
.1170	37352.9040	2896.0330	.0010	1.1163	2777.8262	531.9251	.0010
*.1722	14302.8473	2127.6966	.0010	1.1907	4669.1139	295.5145	.0010
*.1807	25295.9543	1950.3699	.0010	1.2226	4846.4205	827.4386	.0010
*.2233	16903.3717	1300.2603	.0010	1.2864	5792.0651	295.5145	.0010
*.2658	9751.9427	1477.5684	.0010	1.3289	6028.4715	886.5412	.0010
.2764	11173.4103	1004.7468	.0010	1.3714	7210.5297	354.6172	.0010
.3189	7033.2217	531.9253	.0010	1.4352	6737.7039	1004.7465	.0010
.3721	3959.8815	295.5145	.0010	1.4458	6737.7082	354.6172	.0010
.4252	1654.8765	177.3091	.0010	1.5202	7210.5297	354.6172	.0010
.4784	1595.7738	118.2064	.0010	1.5415	5792.0637	886.5412	.0010
*.4784	1773.0804	413.7197	.0010	1.5734	7446.9405	531.9253	.0010
*.5103	1241.1576	177.3091	.0010	1.6372	7210.5297	354.6172	.0010
*.5528	827.4387	118.2064	.0010	1.6478	5378.3448	827.4386	.0010
*.5847	2600.5181	531.9251	.0010	1.7329	5673.8597	295.5145	.0010
.6060	945.6441	118.2064	.0010	1.7541	3900.7774	650.1303	.0010
.6591	1300.2603	236.4118	.0010	1.8285	4137.1896	295.5145	.0010
.7123	1595.7738	472.8226	.0010	1.8604	3014.2370	531.9251	.0010
*.8505	1832.1831	295.5144	.0010	1.9030	2718.7250	591.0279	.0010
*.8611	1359.3630	59.1037	.0010	1.9667	2305.0047	472.8224	.0010
*.9462	3309.7519	236.4118	.0010	2.0358	4610.0098	1359.3627	.0010
*.9993	2068.5953	177.3091	.0010				

REFERENCES		TECHNIQUES		SYSTEMATIC ERROR		MEASURED VARIABLES	
ALBROM	NP	825	11 70	COUNTERS	5.0 P/C	DSIG/DOH	VS COST PI+ ,PI+
* COOK	PR	130	762 63	SPARK CHAMBERS	15.0 P/C	DSIG/DOH	VS COST PI+ ,PI+

DATA AT 1.5050 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2648	10965.2138	647.4369	.0010	1.5575	7445.5125	264.8611	.0010
.3651	4202.4488	529.7213	.0010	1.6803	6803.8469	241.3180	.0010
.5316	1159.5000	294.2900	.0010	1.7870	4732.1693	223.6606	.0010
.7003	1810.7066	170.6886	.0010	1.8863	3943.4744	247.2038	.0010
.8540	2120.7673	158.9170	.0010	1.9589	3560.8985	258.9753	.0010
1.0142	2725.1172	170.6886	.0010	2.0144	5244.2325	306.0616	.0010
1.1444	4096.5047	176.5744	.0010	2.0582	6927.5621	370.8051	.0010
1.2992	6185.9563	229.5464	.0010	2.0902	9240.6778	488.5207	.0010
1.4305	6739.2185	229.5464	.0010	2.1084	10935.7849	947.6118	.0010

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
DUKE	PR	149	1077 66	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI+ ,PI+

DATA AT 1.5300 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0981	49416.5629	2537.1407	.0010	1.1768	4267.0087	230.6501	.0010
.1308	35981.2549	1787.5312	.0010	1.2422	5189.6049	288.3123	.0010
.1744	30157.3661	1499.2199	.0010	1.3185	4901.2936	230.6501	.0010
.2179	20470.1054	1037.9218	.0010	1.3948	6169.8535	288.3123	.0010
.2615	13146.9976	634.2859	.0010	1.4819	7150.1220	345.9746	.0010
.3051	8303.3673	403.6369	.0010	1.5582	7323.1088	345.9746	.0010
.3596	5247.2672	345.9746	.0010	1.6018	6227.5257	288.3123	.0010
.4250	2191.1671	115.3255	.0010	1.6345	7669.0824	403.6369	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 1.530 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.4904	1153.2463	57.6633	.0010	1.6890	7092.4597	345.9746	.0010
.5448	922.5973	57.6633	.0010	1.7652	6054.5389	288.3123	.0010
.5993	691.9482	57.6633	.0010	1.8306	4670.6445	230.6501	.0010
.6538	1095.5841	57.6633	.0010	1.8960	3517.3992	172.9878	.0010
.8826	1902.8558	115.3255	.0010	1.9723	3113.7634	172.9878	.0010
1.1224	4324.6709	230.6501	.0010				

ALBROW	REFERENCE	NP	B25	11	70	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
						COUNTERS	5.0 P/C	DSIG/DOM VS COST PI+ ,PI+

DATA AT 1.5500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0332	56954.6184	1872.3883	.0010	1.0797	2309.2787	192.9136	.0010
.0554	51144.5439	1583.0194	.0010	1.1628	2388.7133	198.5875	.0010
.0775	42264.8889	1441.1718	.0010	1.1904	2865.3210	215.6092	.0010
.0997	38009.4632	1367.4111	.0010	1.2458	3239.7984	232.6309	.0010
.1384	30213.5234	703.5647	.0010	1.3012	4011.4489	255.3265	.0010
.1938	17186.2469	527.6738	.0010	1.3566	4402.9481	266.6743	.0010
.2492	11081.1295	425.5436	.0010	1.4119	4238.4050	261.0004	.0010
.3045	6201.5747	317.7395	.0010	1.4673	4482.3827	272.3482	.0010
.3599	3143.3421	226.9570	.0010	1.5227	5254.0332	295.0438	.0010
.4153	1685.1496	164.5441	.0010	1.5780	5532.8544	300.7177	.0010
.4706	930.5208	124.8268	.0010	1.6334	4499.4044	272.3482	.0010
.5260	573.0650	96.4573	.0010	1.6888	4879.5558	283.6960	.0010
.5814	556.0433	96.4573	.0010	1.7441	4402.9481	266.6743	.0010
.6368	590.0867	96.4573	.0010	1.7995	3444.0589	238.3048	.0010
.6921	800.0210	113.4790	.0010	1.8549	2751.8429	209.9353	.0010
.7475	868.1478	119.1529	.0010	1.9102	2865.3210	215.6092	.0010
.8029	1310.6721	147.5224	.0010	1.9656	2059.6270	181.5658	.0010
.8582	1424.1501	153.1963	.0010	2.0210	2014.2358	181.5658	.0010
.9136	1832.6710	175.8919	.0010	2.0764	2309.2787	192.9136	.0010
.9690	2093.6704	187.2397	.0010	2.1317	3205.7550	238.3048	.0010
1.0243	2258.2136	192.9136	.0010	2.1871	5549.0761	329.0873	.0010

KALMUS	REFERENCE	PR	4	676	71	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
						BUBBLE CHAMBER	7.0 P/C	DSIG/DOM VS COST PI+ ,PI+

DATA AT 1.5790 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2911	9066.0466	554.4992	.0010	1.6690	6526.4423	255.0702	.0010
.4002	2634.8621	332.7000	.0010	1.7976	5295.4599	216.2553	.0010
.5806	859.4734	332.7000	.0010	1.9079	3792.7691	199.6203	.0010
.7624	1458.3306	210.7103	.0010	2.0112	2611.6874	210.7103	.0010
.9267	2406.5230	171.8954	.0010	2.0855	1913.0193	216.2553	.0010
1.0976	2750.3120	182.9854	.0010	2.1425	3005.3813	266.1601	.0010
1.2360	3692.9594	182.9854	.0010	2.1874	4474.8022	360.4249	.0010
1.3986	5467.3544	232.8902	.0010	2.2205	5678.0597	443.5996	.0010
1.5357	6221.4709	238.4352	.0010	2.2390	7502.3623	898.2882	.0010

DUKE	REFERENCE	PR	149	1077	66	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
						COUNTERS	NOT GIVEN	DSIG/DOM VS COST PI+ ,PI+

DATA AT 1.6000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
* .0691	37694.7913	2427.5237	.0010	* 1.0942	1931.1089	305.4870	.0010
* .1152	34639.9313	5400.5571	.0010	* 1.1288	2072.9417	163.6542	.0010
* .1613	24111.5745	1200.1246	.0010	* 1.2094	2542.8809	354.5830	.0010
* .1728	24111.5745	1800.1864	.0010	* 1.2440	3109.4121	163.6542	.0010
* .2073	18056.4056	927.3692	.0010	* 1.3015	3218.5142	163.6542	.0010
* .2534	11292.0728	545.5117	.0010	* 1.3246	3136.6876	392.7687	.0010
* .2880	8509.9681	1091.0224	.0010	* 1.3591	3764.0249	163.6542	.0010
* .3110	7146.1313	381.8585	.0010	* 1.4282	4145.8824	218.2053	.0010
* .3455	4855.0463	272.7564	.0010	* 1.4398	4985.9689	496.4157	.0010
* .3916	3218.5142	163.6542	.0010	* 1.5089	4582.2910	218.2053	.0010
* .4031	2318.4215	332.7625	.0010	* 1.5549	5182.3528	496.4157	.0010
* .4377	1527.4310	54.5521	.0010	* 1.6010	4364.0867	218.2053	.0010
* .4953	763.7160	54.5521	.0010	* 1.6701	4113.1518	447.3198	.0010
* .5183	1047.3816	229.1155	.0010	* 1.6816	4855.0463	218.2053	.0010
* .5644	600.0628	54.5521	.0010	* 1.7392	4527.7399	218.2053	.0010
* .6220	490.9606	54.5521	.0010	* 1.7853	4555.0155	474.5953	.0010
* .6335	1047.3816	229.1155	.0010	* 1.7968	4636.8421	218.2053	.0010
* .6796	600.0628	54.5521	.0010	* 1.8544	3927.6781	218.2053	.0010
* .7487	1723.8149	294.5768	.0010	* 1.9005	4942.3281	496.4157	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 1.640 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
* .7602	981.9203	109.1031	.0010	* 1.9235	3218.5142	163.6542	.0010
* .8178	1145.5735	218.2053	.0010	* 1.9696	2836.6567	163.6542	.0010
* .8639	1723.8149	294.5768	.0010	* 2.0157	2258.4154	332.7625	.0010
* .8639	1363.7778	163.6542	.0010	* 2.0157	2072.9417	109.1031	.0010
* .9445	1636.5331	54.5521	.0010	* 2.0963	1963.8396	163.6542	.0010
* .9790	1494.7054	272.7564	.0010	2.1308	1794.7312	300.0319	.0010
* 1.0366	1909.2885	163.6542	.0010	2.2460	3436.7185	409.1340	.0010

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES		
DAUDIN	NC	33	1301	64	COUNTERS	NOT GIVEN	DSIG/DOM	VS COST PI+ ,PI+
* ALBROW	NP	825	11	70	COUNTERS	5.0 P/C	DSIG/DOM	VS COST PI+ ,PI+

DATA AT 1.6400 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1069	32172.1736	2328.2503	.0010	1.1281	1957.8470	105.8305	.0010
.1544	26086.9765	1322.8699	.0010	1.1993	1957.8470	105.8305	.0010
.1900	19472.6318	952.4666	.0010	1.2824	2592.8241	105.8305	.0010
.2375	13493.2642	687.8928	.0010	1.4012	3121.9717	158.7453	.0010
.2969	8360.5327	423.3191	.0010	1.4962	3598.2045	158.7453	.0010
.3444	5079.8177	264.5748	.0010	1.5793	4180.2668	211.6600	.0010
.4037	2857.3979	158.7453	.0010	1.6386	4921.0734	264.5748	.0010
.4394	1799.1028	158.7453	.0010	1.7336	4339.0111	211.6600	.0010
.4869	1111.2109	52.9158	.0010	1.8405	3862.7783	211.6600	.0010
.5462	740.8076	52.9158	.0010	1.9118	3121.9717	158.7453	.0010
.6175	740.8076	52.9158	.0010	1.9711	2381.1651	105.8305	.0010
.6768	582.0633	52.9158	.0010	2.0661	1640.3585	105.8305	.0010
.7362	899.5519	105.8305	.0010	2.1492	952.4666	52.9158	.0010
.9737	1693.2732	105.8305	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
ALBROW	NP	825	11	70	COUNTERS	5.0 P/C	DSIG/DOM	VS COST PI+ ,PI+

DATA AT 1.6800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0367	55367.3895	2414.4260	.0010	1.8652	3313.4140	261.9918	.0010
.0612	51360.4714	2013.7342	.0010	1.9264	2866.4885	246.5806	.0010
.0856	39653.0788	1582.2199	.0010	* 1.9694	2471.0010	446.0010	.0010
.1101	32902.9629	1443.5189	.0010	* 1.9876	2465.7967	226.0323	.0010
.1529	25438.7937	734.6026	.0010	* 1.9939	2819.0010	341.0010	.0010
.2141	15904.3835	580.4904	.0010	* 2.0183	2356.0010	295.0010	.0010
.2752	10166.2714	462.3377	.0010	* 2.0428	2239.0010	284.0010	.0010
.3364	5948.7332	354.4591	.0010	* 2.0487	1582.2199	184.9357	.0010
.3975	3164.4389	256.8547	.0010	* 2.0672	1669.0010	233.0010	.0010
.4587	1541.1233	179.7986	.0010	* 2.0917	1738.0010	242.0010	.0010
.5198	883.5778	138.7020	.0010	* 2.1099	1284.2696	164.3874	.0010
.5810	719.1314	123.2908	.0010	* 2.1162	1222.0010	199.0010	.0010
.6421	1012.0047	143.8391	.0010	* 2.1406	1367.0010	202.0010	.0010
.7033	821.9329	133.5649	.0010	* 2.1651	1283.0010	198.0010	.0010
.7645	1243.1730	164.3874	.0010	* 2.1710	1119.8832	154.1132	.0010
.8256	1243.1730	164.3874	.0010	* 2.1895	1334.0010	196.0010	.0010
.8868	1710.6468	190.0728	.0010	* 2.2140	1455.0010	200.0010	.0010
1.0091	1541.1233	179.7986	.0010	* 2.2322	863.0295	133.5649	.0010
1.0702	1664.4131	184.9357	.0010	* 2.2384	975.0010	161.0010	.0010
1.1314	1453.7931	174.6615	.0010	* 2.2629	1109.0010	166.0010	.0010
1.1925	2214.0801	215.7581	.0010	* 2.2874	1136.0010	164.0010	.0010
1.2843	1731.1351	190.0728	.0010	* 2.2933	1412.6965	174.6615	.0010
1.3148	2404.1518	226.0323	.0010	* 2.3118	878.0010	141.0010	.0010
1.3760	2111.3386	210.6211	.0010	* 2.3363	1457.0010	171.0010	.0010
1.4372	2933.2705	246.5806	.0010	* 2.3545	1541.1233	179.7986	.0010
1.4983	3205.5355	261.9918	.0010	* 2.3607	1957.0010	190.0010	.0010
1.5595	3693.5575	277.4030	.0010	* 2.3852	2125.0010	186.0010	.0010
1.6206	3647.3239	277.4030	.0010	* 2.4097	2816.0010	192.0010	.0010
1.6818	3205.5355	261.9918	.0010	* 2.4156	2512.0010	236.3064	.0010
1.7429	2912.7222	246.5806	.0010	* 2.4305	3623.0010	630.0010	.0010
1.8041	3524.0341	272.2659	.0010	* 2.4465	4334.0010	356.0010	.0010

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES		
KALMUS	PR	4	676	71	BUBBLE CHAMBER	7.0 P/C	DSIG/DOM	VS COST PI+ ,PI+
* CARROL	PRL	20	607	68	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS -T PI+ ,P

DATA AT 1.6888 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
.2068	18053.5418	612.5045	.0010	1.6778	2531.6809	311.3568	.0010

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CONTINUATION OF DATA AT 1.689 GEV/C

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.3668	5895.3447	362.3988	.0010	1.7923	2970.6418	331.7736	.0010
.4887	2337.7215	285.8359	.0010	1.8920	2138.5578	341.9820	.0010
.6155	1541.4669	316.4610	.0010	2.0459	1357.7159	372.6670	.0010
.7461	2016.1571	372.6670	.0010	2.1345	908.5477	403.2324	.0010
.8752	2368.3467	382.8156	.0010	2.2330	25.5220	168.4394	.0010
1.0328	1949.8026	387.9197	.0010	2.3020	433.8575	387.9197	.0010
1.1534	1720.1138	377.7112	.0010	2.3512	500.2121	632.9210	.0010
1.2962	1311.7781	362.3988	.0010	2.3857	775.8385	903.4436	.0010
1.4280	1327.097	357.2946	.0010	2.4127	3465.7488	995.3191	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
HELLAND PR 134 1662 64	COUNTERS	NOT GIVEN	DSIG/DOH VS COST PI+ ,PI+

DATA AT 1.7200 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0881	34289.2520	2146.1987	.0010	1.0449	1142.9765	119.7887	.0010
.1133	32791.9040	2096.2871	.0010	1.2211	1816.7821	334.4086	.0010
.1385	25005.6941	1647.0827	.0010	1.2966	2216.0749	344.3968	.0010
.1637	24057.3736	1746.9059	.0010	1.3722	2275.9689	329.4175	.0010
.1888	19365.6977	1497.3479	.0010	1.4477	1996.4639	259.5412	.0010
.2140	17469.0617	1447.4363	.0010	1.5232	2270.9777	279.5059	.0010
.2392	11230.1114	998.2329	.0010	1.5988	2550.4827	269.4882	.0010
.2644	11030.4601	1048.1445	.0010	1.6743	2605.3854	304.4617	.0010
.3021	7187.2092	549.0284	.0010	1.7498	2345.8451	274.5147	.0010
.3525	4661.7434	459.1874	.0010	1.8254	2924.8197	314.4438	.0010
.4028	2675.2617	339.3996	.0010	1.9135	2834.9788	284.4970	.0010
.4532	1572.2153	239.5766	.0010	2.0142	2869.9169	274.5147	.0010
.5036	993.2416	204.6385	.0010	2.1149	2051.3666	214.6208	.0010
.5665	718.7280	149.7357	.0010	2.2156	1447.4363	179.6827	.0010
.6420	458.6885	134.7622	.0010	2.3163	908.3920	134.7622	.0010
.7176	698.7633	179.6827	.0010	2.3918	993.2416	214.6208	.0010
.7931	768.6395	219.6119	.0010	2.4422	1038.1620	274.5147	.0010
.8686	1197.8791	269.5236	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BUSZA PR 180 1339 69	SPARK CHAMBERS	NOT GIVEN	DSIG/DOH VS COST PI+ ,PI+

DATA AT 1.7400 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.1405	23424.7924	1181.0829	.0010	1.3278	2017.6826	246.0597	.0010
.1915	18552.8295	935.0242	.0010	1.4172	1919.2591	98.4245	.0010
.2426	13090.3256	639.7537	.0010	1.4683	2263.7413	98.4245	.0010
.2937	8759.6919	442.9067	.0010	1.5194	2509.8001	147.6362	.0010
.3575	5364.0314	246.0597	.0010	1.5832	2460.5883	147.6362	.0010
.4213	3346.3998	147.6362	.0010	1.6726	2657.4353	147.6362	.0010
.4852	1968.4709	98.4245	.0010	1.7492	3051.1293	147.6362	.0010
.5490	1230.2947	49.2127	.0010	1.8258	3149.5528	147.6362	.0010
.6512	836.6007	49.2127	.0010	1.8641	2608.2236	147.6362	.0010
.7533	935.0242	98.4245	.0010	1.9279	2952.7058	147.6362	.0010
.8554	1181.0829	147.6362	.0010	1.9918	2608.2236	147.6362	.0010
.9448	1427.1417	147.6362	.0010	2.0811	2263.7413	98.4245	.0010
.9959	1377.9299	246.0597	.0010	2.1450	1574.7769	98.4245	.0010
1.0597	1623.9886	147.6362	.0010	2.2216	1181.0829	49.2127	.0010
1.1491	1673.2004	147.6362	.0010	2.2854	935.0242	49.2127	.0010
1.2002	1968.4709	196.8480	.0010	2.3237	688.3655	49.2127	.0010
1.2640	2116.1661	246.0597	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
ALBROW NP B25 11 70	COUNTERS	5.0 P/C	DSIG/DOH VS COST PI+ ,PI+

DATA AT 1.7600 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0389	50132.1764	3979.5154	.0010	.8286	1213.2676	630.8996	.0010
.0647	45667.3554	3633.9234	.0010	.8804	1213.2676	630.8996	.0010
.0906	39601.0224	3542.7394	.0010	.9322	1455.9209	679.4303	.0010
.1165	29069.8684	3057.4328	.0010	.9840	1455.9209	679.4303	.0010
.1424	28099.2552	3068.9021	.0010	1.0358	1504.4516	679.4303	.0010
.1683	22663.8209	2669.1875	.0010	1.0875	1504.4516	679.4303	.0010
.1942	21052.3090	2572.1262	.0010	1.1393	873.5529	533.8383	.0010
.2201	14073.8934	2135.3502	.0010	1.1911	873.5529	533.8383	.0010
.2460	16597.4879	2280.9422	.0010	1.2429	2135.3502	825.0223	.0010
.2719	14995.9760	2183.8809	.0010	1.2947	2135.3502	825.0223	.0010
.2978	8929.6431	1698.5742	.0010	1.3724	1747.1049	727.9610	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 1.760 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.3237	7328.1312	1552.9822	.0010	1.4759	1116.2063	582.3690	.0010
.3496	7667.8458	1552.9822	.0010	1.5795	3057.4328	970.6143	.0010
.3755	4664.8220	1213.2676	.0010	1.6831	2378.0035	873.5529	.0010
.4143	2475.0648	922.0836	.0010	1.7867	1698.5742	727.9610	.0010
.4661	2475.0648	922.0836	.0010	1.8902	2086.8195	825.0223	.0010
.5179	727.9610	485.3076	.0010	1.9938	2717.7182	922.0836	.0010
.5697	727.9610	485.3076	.0010	2.0974	1601.5129	727.9610	.0010
.6215	1019.1449	582.3690	.0010	2.2010	1213.2676	630.8996	.0010
.6732	1019.1449	582.3690	.0010	2.3045	485.3076	388.2463	.0010
.7250	970.6143	582.3690	.0010	2.4081	1019.1449	582.3690	.0010
.7768	970.6143	582.3690	.0010	2.5246	825.0223	533.8383	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
JAMES PL 19 72 65	BUBBLE CHAMBER	2.0 P/C	DSIG/DOH VS COST PI+ ,PI+

DATA AT 1.7700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0391	44345.9982	1527.8437	.0010	1.1407	1392.8923	139.7721	.0010
.0652	33506.5082	1190.4652	.0010	1.1472	1590.4998	178.3296	.0010
.0913	30831.5785	1142.2683	.0010	1.2059	1648.3361	154.2312	.0010
.1043	28050.6155	1397.7120	.0010	1.2515	1600.1391	91.5752	.0010
.1173	24850.3392	935.0215	.0010	1.2711	1436.2696	144.5918	.0010
.1173	25640.7089	1301.3182	.0010	1.3688	1572.4345	81.9358	.0010
.1564	21640.4235	1060.3335	.0010	1.3688	1494.1059	144.5918	.0010
.1630	19216.1178	520.5279	.0010	1.4014	1691.7133	154.2312	.0010
.1956	15326.6254	771.1519	.0010	1.4666	1224.2031	130.1327	.0010
.2281	13432.4860	433.7734	.0010	1.4731	2043.5509	101.2146	.0010
.2477	11278.0831	578.3642	.0010	1.5318	1494.1059	144.5918	.0010
.2933	7966.9539	332.5598	.0010	1.5905	2197.7811	110.8539	.0010
.3129	7666.9193	385.5765	.0010	1.5970	1691.7133	154.2312	.0010
.3685	5041.4001	265.0841	.0010	1.6622	2000.1737	168.6903	.0010
.3685	5012.4819	240.9857	.0010	1.7078	1947.1571	96.3949	.0010
.4237	2814.7118	197.6084	.0010	1.7273	1788.1072	159.0509	.0010
.4302	2988.2108	144.5918	.0010	1.7925	2352.0113	183.1493	.0010
.4889	1619.4179	149.4115	.0010	1.7990	2298.9907	115.6736	.0010
.4954	1927.8783	96.3949	.0010	1.8577	1817.0253	159.0509	.0010
.5541	1325.4166	134.9524	.0010	1.9033	2270.0755	115.6736	.0010
.5736	1335.0560	86.7555	.0010	1.9229	1788.1072	159.0509	.0010
.6192	800.0701	106.0343	.0010	1.9881	1884.5010	163.8706	.0010
.6388	1679.6123	77.1161	.0010	2.0076	2267.4205	110.8539	.0010
.6844	800.0701	106.0343	.0010	2.0533	1532.6634	144.5918	.0010
.7040	1243.4618	77.1161	.0010	2.0989	1648.3361	81.9358	.0010
.7496	800.0701	106.0343	.0010	2.1184	1195.2849	130.1327	.0010
.7822	1335.0560	81.9358	.0010	2.1836	1041.0547	120.4933	.0010
.8148	1238.6622	130.1327	.0010	2.1941	1397.7120	96.3949	.0010
.8343	1566.4113	130.1327	.0010	2.2488	915.7427	115.6736	.0010
.8800	1166.3668	130.1327	.0010	2.2814	718.1353	57.8373	.0010
.8865	1441.0893	115.6736	.0010	2.3140	534.9869	86.7555	.0010
.9452	1041.0547	120.4933	.0010	2.3792	520.5279	86.7555	.0010
.9647	1590.4998	173.5100	.0010	2.3987	351.8386	192.7887	.0010
1.0103	1691.7133	154.2312	.0010	2.4444	337.3795	67.4767	.0010
1.0755	1238.6622	130.1327	.0010	2.5095	718.1353	101.2146	.0010
1.0820	1730.2709	86.7555	.0010	2.5747	1012.1366	125.3130	.0010

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
KALMUS PR 4 676 71	BUBBLE CHAMBER	7.0 P/C	DSIG/DOH VS COST PI+ ,PI+
* ALBROH NP 825 11 70	COUNTERS	5.0 P/C	DSIG/DOH VS COST PI+ ,PI+

DATA AT 1.7800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.1135	1122.0010	403.0010	.0010	2.4022	507.0010	94.0010	.0010
2.1397	1119.0010	213.0010	.0010	2.4285	450.0010	85.0010	.0010
2.1660	856.0010	147.0010	.0010	2.4547	316.0010	70.0010	.0010
2.1922	928.0010	148.0010	.0010	2.4810	415.0010	76.0010	.0010
2.2185	785.0010	129.0010	.0010	2.5072	407.0010	74.0010	.0010
2.2447	909.0010	143.0010	.0010	2.5335	577.0010	84.0010	.0010
2.2710	688.0010	120.0010	.0010	2.5597	819.0010	94.0010	.0010
2.2972	514.0010	100.0010	.0010	2.5859	859.0010	88.0010	.0010
2.3235	477.0010	97.0010	.0010	2.6121	849.0010	108.0010	.0010
2.3497	405.0010	87.0010	.0010	2.6252	869.0010	98.0010	.0010
2.3760	426.0010	88.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CARROL PKL 20 607 68	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT VS -T PI+ ,P

REACTION PI+ P = P PI+

DATA AT 1.7900 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1057	28240.3358	1426.2805	.0010	1.1498	1644.9767	114.1034	.0010
.1586	24104.1252	1188.5673	.0010	1.2027	1554.6457	152.1375	.0010
.2115	18589.1776	950.8540	.0010	1.2687	1369.2294	128.3662	.0010
.2643	12884.0595	665.5981	.0010	1.3480	1706.7822	161.6460	.0010
.3040	9888.8724	522.9702	.0010	1.4538	1692.5194	85.5778	.0010
.3436	6513.3442	332.7996	.0010	1.5331	1497.5945	76.0692	.0010
.4097	4183.7543	190.1716	.0010	1.6256	2148.9288	109.3491	.0010
.4758	2567.3.42	142.6290	.0010	1.7313	2296.3111	114.1034	.0010
.5419	1573.6628	80.8235	.0010	1.8370	2553.0414	128.3662	.0010
.6079	1174.3.45	66.5607	.0010	1.9295	2419.9219	118.8576	.0010
.6872	1102.9905	57.0522	.0010	2.0088	2343.8537	118.8576	.0010
.7533	1083.9734	57.0522	.0010	2.0881	2053.8435	104.5948	.0010
.8326	1407.2635	85.5778	.0010	2.1674	1516.6116	76.0692	.0010
.9251	166.9426	90.3320	.0010	2.2467	1141.0246	57.0522	.0010
1.0044	1464.3147	128.3662	.0010	2.3524	665.5981	38.0351	.0010
1.0573	1887.4443	128.3662	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
ALBROW NP 825 11 70	COUNTERS	5.0 P/C	VS COST PI+,PI+

DATA AT 1.8400 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0410	34383.8470	1485.1551	.0010	1.3324	1232.2651	147.1370	.0010
.0683	31988.2888	1282.8431	.0010	1.4348	1269.0491	147.1370	.0010
.0957	25137.2684	1135.7071	.0010	1.4690	1241.4611	147.1370	.0010
.1230	22097.9903	974.7771	.0010	1.5373	1213.8731	142.5390	.0010
.1700	16989.6120	537.9670	.0010	1.6057	1163.2951	142.5390	.0010
.2391	10791.5076	432.2130	.0010	1.6740	1250.6571	147.1370	.0010
.3075	6731.4734	340.2530	.0010	1.7423	1696.6631	170.1270	.0010
.3758	4280.7392	271.2830	.0010	1.8106	1540.3311	160.9310	.0010
.4441	2653.0472	211.5090	.0010	1.8790	1370.2051	151.7350	.0010
.5124	1816.2111	174.7250	.0010	1.9473	1866.7891	179.3230	.0010
.5808	1149.5011	137.9410	.0010	2.0156	1351.8131	151.7350	.0010
.6491	786.2590	114.9510	.0010	2.0839	1131.1091	137.9410	.0010
.7174	892.0131	124.1470	.0010	2.1523	1200.0791	142.5390	.0010
.7857	873.6211	124.1470	.0010	2.2206	772.4650	114.9510	.0010
.8541	1131.1091	137.9410	.0010	2.2889	528.7710	96.5590	.0010
.9224	1043.7471	133.3430	.0010	2.3572	547.1630	96.5590	.0010
.9907	1678.2711	170.1270	.0010	2.4256	377.0370	78.1670	.0010
1.0591	1112.7171	137.9410	.0010	2.4939	239.0970	64.3730	.0010
1.1274	1269.0491	147.1370	.0010	2.5622	344.8510	78.1670	.0010
1.1957	1149.5011	137.9410	.0010	2.6305	275.8810	68.9710	.0010
1.2640	1250.6571	147.1370	.0010	2.6989	528.7710	96.5590	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
KALMUS PR 4 676 71	BUBBLE CHAMBER	7.0 P/C	VS COST PI+,PI+

DATA AT 1.8800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.3143	652.0010	104.0010	.0010	2.5947	330.0010	54.0010	.0010
2.3423	622.0010	90.0010	.0010	2.6228	238.0010	46.0010	.0010
2.3704	582.0010	86.0010	.0010	2.6508	370.0010	54.0010	.0010
2.3984	511.0010	79.0010	.0010	2.6789	328.0010	49.0010	.0010
2.4264	628.0010	88.0010	.0010	2.7069	427.0010	53.0010	.0010
2.4545	367.0010	64.0010	.0010	2.7350	450.0010	51.0010	.0010
2.4825	362.0010	62.0010	.0010	2.7630	456.0010	47.0010	.0010
2.5106	382.0010	64.0010	.0010	2.7868	666.0010	137.0010	.0010
2.5386	321.0010	57.0010	.0010	2.8050	620.0010	65.0010	.0010
2.5667	301.0010	54.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CARROL PRL 20 607 68	BUBBLE CHAMBER	NOT GIVEN	VS -T PI+,P

DATA AT 1.8900 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0988	28266.4527	1914.1073	.0010	1.1857	961.5059	115.7376	.0010
.1270	23102.8143	1647.0225	.0010	1.3692	569.7816	222.5715	.0010
.1553	20209.3962	1468.9660	.0010	1.4539	1170.7214	298.1828	.0010
.1835	21366.7634	1647.0225	.0010	1.5385	1135.1111	231.4744	.0010
.2117	14867.7143	1246.3954	.0010	1.6232	836.8663	169.1546	.0010
.2400	11974.2983	1112.8541	.0010	1.7079	859.1234	169.1546	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 1.890 GEV/C

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.2682	9258.9378	934.7975	.0010	1.7926	1179.6242	200.3145	.0010
.2964	9125.3322	934.7975	.0010	1.8773	1072.7913	186.9602	.0010
.3388	5786.8328	489.6561	.0010	1.9620	1317.5180	204.7659	.0010
.3952	4718.4950	445.1420	.0010	2.0467	881.3804	169.1546	.0010
.4517	2599.6248	338.3082	.0010	2.1455	1192.9785	178.0574	.0010
.5082	1460.0632	235.9258	.0010	2.2584	743.3868	142.4461	.0010
.5787	1032.7286	182.5088	.0010	2.3713	752.2896	137.9947	.0010
.6634	480.7534	137.9947	.0010	2.4843	299.1357	93.4806	.0010
.7481	467.3991	151.3489	.0010	2.5972	215.0042	84.5777	.0010
.8328	988.2143	249.2800	.0010	2.6819	149.5684	115.7376	.0010
.9175	1241.9440	293.7941	.0010	2.7383	156.2455	164.7632	.0010
1.0022	1063.8884	280.4398	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BUSZA PR 180 1339 69	SPARK CHAMBERS	NOT GIVEN	DSIG/DT VS COST PI+ ,PI+

DATA AT 1.9000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.1137	21983.2010	4025.0940	.0010	1.3495	1636.5773	123.8500	.0010
.1705	16321.5318	796.1732	.0010	1.4631	1397.7256	154.8123	.0010
.2273	12031.0481	619.2461	.0010	1.5484	1021.7554	57.5023	.0010
.2841	8359.8095	398.0871	.0010	1.6478	1127.9117	57.5023	.0010
.3551	5352.0477	265.3917	.0010	1.7614	1189.8362	57.5023	.0010
.4262	3361.6171	176.9282	.0010	1.8609	1127.9117	57.5023	.0010
.4972	2211.5905	132.6964	.0010	1.9461	1172.1435	57.5023	.0010
.5824	1388.8792	79.7719	.0010	2.0313	1211.9521	61.9255	.0010
.6819	995.2163	53.0791	.0010	2.1024	1101.3726	53.0791	.0010
.7671	1012.9090	48.6560	.0010	2.1876	1026.1785	53.0791	.0010
.8381	1216.3752	61.9255	.0010	2.2728	809.4428	39.8096	.0010
.9091	1052.7176	84.0414	.0010	2.3439	725.4024	35.3864	.0010
1.0086	1158.8739	88.4646	.0010	2.4291	420.2030	22.1169	.0010
1.1222	1132.3348	115.0037	.0010	2.5285	287.5076	13.2705	.0010
1.2359	1495.0355	154.8123	.0010	2.6138	159.2354	17.6937	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
ALBROW NP 825 11 70	COUNTERS	5.0 P/C	DSIG/DT VS COST PI+ ,PI+

DATA AT 1.9000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
2.4631	591.0010	114.0010	.0010	2.7616	118.0010	29.0010	.0010
2.4930	417.0010	68.0010	.0010	2.7915	110.0010	28.0010	.0010
2.5228	388.0010	61.0010	.0010	2.8213	175.0010	34.0010	.0010
2.5527	376.0010	59.0010	.0010	2.8512	178.0010	32.0010	.0010
2.5825	342.0010	55.0010	.0010	2.8810	229.0010	35.0010	.0010
2.6124	271.0010	48.0010	.0010	2.9109	203.0010	31.0010	.0010
2.6422	202.0010	41.0010	.0010	2.9407	208.0010	28.0010	.0010
2.6721	237.0010	43.0010	.0010	2.9660	218.0010	58.0010	.0010
2.7019	158.0010	35.0010	.0010	2.9854	221.0010	31.0010	.0010
2.7318	157.0010	35.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CARROL PRL 20 607 68	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT VS -T PI+ ,P

DATA AT 1.9900 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.1352	23095.3656	1171.5050	.0010	1.5168	1016.6991	117.1514	.0010
.1952	13137.5816	669.4319	.0010	1.6069	815.8699	92.0477	.0010
.2553	9079.1570	460.2347	.0010	1.6669	748.9268	71.1280	.0010
.3154	6317.7547	334.7164	.0010	1.7420	769.8465	71.1280	.0010
.3905	3807.3890	209.1981	.0010	1.8021	824.2377	46.0244	.0010
.4655	2510.3667	125.5193	.0010	1.8772	815.8699	41.8404	.0010
.5406	1673.5781	83.6799	.0010	1.9673	744.7428	37.6565	.0010
.6007	1271.9196	71.1280	.0010	2.0074	765.6625	37.6565	.0010
.6608	1050.1707	54.3923	.0010	2.1925	761.4786	37.6565	.0010
.7359	778.2144	58.5762	.0010	2.2827	627.5924	33.4725	.0010
.8260	857.7093	46.0244	.0010	2.3427	539.7296	37.6565	.0010
.9161	853.5253	50.2083	.0010	2.4178	443.4989	25.1047	.0010
1.0212	907.9166	92.0477	.0010	2.4929	364.0040	25.1047	.0010
1.1714	941.3881	121.3353	.0010	2.5530	271.9573	25.1047	.0010
1.2615	1096.1940	58.5762	.0010	2.6581	192.4624	16.7368	.0010
1.3516	979.0436	171.5427	.0010	2.7632	92.0477	25.1047	.0010
1.4416	1020.8831	112.9675	.0010				

REACTION PI+ P = P PI+

REFERENCE			TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
ALBROW	NP	B25 11 70	COUNTERS		5.0 P/C	DSIG/DOH	VS COST PI+ ,PI+	
DATA AT 2.0000 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0907	27032.9091	2495.3454	.0010	1.5863	540.6591	166.3573	.0010	
.1209	19962.7477	2495.3454	.0010	1.5863	914.9608	249.5355	.0010	
.1511	14140.2894	1663.5636	.0010	1.7374	582.2482	166.3573	.0010	
* .1783	15970.2073	2370.5781	.0010	* 1.7374	1289.2518	332.7136	.0010	
.2115	13724.3364	1247.6727	.0010	1.8885	499.0698	166.3573	.0010	
* .2644	12185.6112	1829.9199	.0010	* 1.8885	790.1936	249.5355	.0010	
.2719	9981.3804	1247.6727	.0010	2.0396	748.6044	166.3573	.0010	
* .3324	6654.2523	831.7827	.0010	* 2.0396	1455.6181	374.3027	.0010	
* .3777	6654.2523	998.1389	.0010	2.1906	303.6011	124.7682	.0010	
.4230	4574.7378	831.7827	.0010	* 2.1906	1414.0290	374.3027	.0010	
* .5288	1788.3308	291.1245	.0010	2.3417	499.0698	124.7682	.0010	
.5288	2245.8108	457.4808	.0010	* 2.3417	998.1389	249.5355	.0010	
* .6799	1206.0836	249.5355	.0010	2.4928	374.3027	124.7682	.0010	
* .6799	1954.6872	415.8917	.0010	* 2.4928	873.3718	207.9464	.0010	
.8309	740.6044	207.9464	.0010	2.6439	145.5627	103.9736	.0010	
* .8309	1538.7363	374.3027	.0010	* 2.6439	415.8917	124.7682	.0010	
.9820	1039.7282	207.9464	.0010	2.7949	153.8805	103.9736	.0010	
* 1.1331	1081.3153	207.9464	.0010	* 2.7949	124.7682	83.1791	.0010	
1.2086	1372.4400	207.9464	.0010	* 2.8931	207.9464	207.9464	.0010	
* 1.2842	1330.8503	207.9464	.0010	2.9460	224.5820	207.9464	.0010	
1.4352	349.3493	124.7682	.0010					

REFERENCES			TECHNIQUES		SYSTEMATIC ERROR		MEASURED VARIABLES	
DAMOUTH * COOK	PRL PR	11 287 63 130 762 63	SPARK CHAMBERS SPARK CHAMBERS		15.0 P/C 15.0 P/C	DSIG/DOH DSIG/DOH	VS COST PI+ ,PI+ VS COST PI+ ,PI+	
DATA AT 2.0700 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0787	25665.5207	1676.4425	.0010	1.5584	582.7641	167.6452	.0010	
.1102	22951.2362	1436.9507	.0010	1.6528	550.8318	143.6960	.0010	
* .1417	18840.0051	1237.3742	.0010	* 1.7158	626.6711	39.9163	.0010	
.1732	14968.2370	758.3916	.0010	1.7473	742.4254	151.6790	.0010	
* .1732	17562.7156	1157.5436	.0010	* 1.7945	482.9761	39.9163	.0010	
.2046	16285.4408	1157.5436	.0010	1.8417	638.6526	119.7468	.0010	
* .2361	10817.0462	558.8151	.0010	* 1.8575	510.9168	39.9163	.0010	
* .2361	12174.1624	957.9679	.0010	* 1.9362	526.8829	35.9248	.0010	
.2676	9060.7703	798.3068	.0010	1.9362	598.7303	107.7722	.0010	
* .2991	7543.9919	359.2387	.0010	* 2.0149	638.6457	43.9078	.0010	
.2991	7424.2441	678.5608	.0010	2.0306	486.9675	99.7892	.0010	
* .3463	5228.9019	375.2047	.0010	* 2.0621	682.5526	51.8909	.0010	
* .3778	4710.0059	239.4928	.0010	* 2.1251	415.1201	35.9248	.0010	
.4093	3951.6143	347.2638	.0010	2.1251	618.6880	107.7722	.0010	
* .4565	3033.5635	159.6622	.0010	* 2.1881	566.7982	35.9248	.0010	
* .4722	2510.6722	279.4080	.0010	2.2195	678.5608	111.7637	.0010	
* .5352	1796.1893	79.8316	.0010	* 2.2510	626.6711	47.8994	.0010	
.5352	1492.8321	195.5859	.0010	2.3140	478.9843	95.7976	.0010	
* .5982	1117.6283	175.6282	.0010	* 2.3297	431.0862	31.9332	.0010	
* .6297	1197.4599	59.8739	.0010	* 2.3927	411.1285	43.9078	.0010	
.6611	902.0065	167.6452	.0010	2.4084	447.0522	99.7892	.0010	
* .7084	910.0097	47.8994	.0010	* 2.4399	451.0438	43.9078	.0010	
.7399	742.4254	127.7299	.0010	* 2.5186	339.2810	27.9417	.0010	
* .8028	930.0274	51.8909	.0010	2.5186	316.1300	71.8485	.0010	
* .8343	566.7380	131.7214	.0010	* 2.6131	263.4420	27.9417	.0010	
* .8973	818.2646	47.8994	.0010	2.6445	281.4036	67.8569	.0010	
* .9287	562.8066	159.6621	.0010	* 2.6918	231.5097	35.9248	.0010	
* .9760	1157.5446	95.8824	.0010	2.7705	206.3631	59.8739	.0010	
1.0232	602.7218	167.6452	.0010	* 2.7862	191.5944	31.9332	.0010	
* 1.0547	1157.5446	79.8316	.0010	2.8964	111.7537	47.8994	.0010	
1.1176	395.1623	155.6706	.0010	2.9909	120.9443	71.8485	.0010	
* 1.3380	1101.6632	63.8655	.0010	3.0538	159.6621	107.7722	.0010	
1.3380	634.6541	71.8485	.0010					

REFERENCES			TECHNIQUES		SYSTEMATIC ERROR		MEASURED VARIABLES	
BUSZA * ALBROW	PR NP	180 1339 69 B25 11 70	SPARK CHAMBERS COUNTERS		NOT GIVEN 5.0 P/C	DSIG/DOH DSIG/DOH	VS COST PI+ ,PI+ VS COST PI+ ,PI+	
DATA AT 2.0800 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0475	34924.4337	1984.3438	.0010	1.5832	793.7381	238.1221	.0010	
.0792	31749.4853	1984.3438	.0010	1.6782	833.4250	158.7484	.0010	
* .1108	28177.6683	1984.3438	.0010	* 1.8048	714.3544	158.7484	.0010	
.1425	25002.7199	1984.3438	.0010	1.9315	932.6421	158.7484	.0010	
* .1742	19049.6316	1587.4752	.0010	* 2.0582	396.8696	119.0616	.0010	
.2058	16271.6117	1389.0409	.0010	2.1848	833.4250	158.7484	.0010	
* .2375	13691.9661	1389.0409	.0010	* 2.3115	595.3038	138.9050	.0010	
.2692	11906.0576	1190.6067	.0010	2.4381	456.3998	119.0616	.0010	

TURN TO NEXT PAGE

REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 2.000 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.3008	11310.7548	1190.6067	.0010	2.5648	496.0867	138.9050	.0010
.3325	7540.5035	992.1724	.0010	* 2.6689	371.0010	58.0010	.0010
.3641	7342.0692	992.1724	.0010	2.6914	230.1848	79.3747	.0010
.3958	6548.3321	992.1724	.0010	* 2.7010	235.0010	39.0010	.0010
.4275	5754.5950	793.7381	.0010	* 2.7330	138.0010	30.0010	.0010
.4591	3413.0706	634.9907	.0010	* 2.7650	161.0010	30.0010	.0010
.5066	2063.7175	357.1827	.0010	* 2.7970	126.0010	26.0010	.0010
.5700	2222.4649	396.8696	.0010	2.8181	99.2181	51.5939	.0010
.6333	992.1724	277.8090	.0010	* 2.8291	137.0010	27.0010	.0010
.6966	456.3998	178.5918	.0010	* 2.8611	113.0010	24.0010	.0010
.7599	932.6421	257.9656	.0010	* 2.8931	101.0010	23.0010	.0010
.8233	1131.0764	257.9656	.0010	* 2.9251	94.0010	21.0010	.0010
.8866	1051.7027	257.9656	.0010	2.9447	99.2181	51.5939	.0010
.9499	1131.0764	257.9656	.0010	* 2.9571	112.0010	23.0010	.0010
1.0133	1051.7027	257.9656	.0010	* 2.9892	142.0010	25.0010	.0010
1.0766	992.1724	277.8090	.0010	* 3.0212	102.0010	20.0010	.0010
1.1399	1587.4752	238.1221	.0010	* 3.0532	111.0010	20.0010	.0010
1.2032	1587.4752	238.1221	.0010	* 3.0852	131.0010	21.0010	.0010
1.2666	1647.0055	218.2787	.0010	* 3.0872	210.3413	79.3747	.0010
1.3299	1508.1115	218.2787	.0010	* 3.1173	140.0010	19.0010	.0010
1.3932	932.6421	257.9656	.0010	* 3.1446	143.0010	39.0010	.0010
1.4565	992.1724	277.8090	.0010	* 3.1655	150.0010	21.0010	.0010
1.5199	1190.6067	277.8090	.0010				

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES		
JAMES	PL	19	72	65	BUBBLE CHAMBER	2.0 P/C	DSIG/DOH	VS COST PI+ ,PI+
* CARROL	PRL	20	607	68	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS -T PI+ ,P

DATA AT 2.1700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0033	23700.8906	2188.9371	.0010	1.1821	1400.1650	407.5961	.0010
.1165	21587.4342	1924.7551	.0010	1.4151	505.7207	109.4478	.0010
.1498	19360.7569	1736.0536	.0010	1.6482	498.1728	298.6011	.0010
.1831	17058.5989	1547.3521	.0010	1.7481	452.8843	215.1206	.0010
.2164	13737.4651	1434.1313	.0010	1.8480	584.9754	230.2167	.0010
.2497	10076.6557	1207.6895	.0010	1.9479	256.6348	132.0920	.0010
.2830	7963.2011	1056.7283	.0010	2.0478	324.5673	135.8660	.0010
.3163	8718.0061	1056.7283	.0010	2.1477	434.0141	154.7361	.0010
.3663	5094.9379	566.1053	.0010	2.2476	166.0582	105.6737	.0010
.4329	2170.0670	366.0816	.0010	2.3474	441.5623	150.9621	.0010
.4995	1913.4330	335.8895	.0010	2.4473	411.3700	150.9621	.0010
.5661	1479.4196	298.1492	.0010	2.5472	60.3855	98.1257	.0010
.6327	1169.9492	279.2789	.0010	2.6638	143.4140	101.8997	.0010
.6992	517.0428	196.2505	.0010	2.7970	173.6063	101.8997	.0010
.7825	415.1440	162.2842	.0010	2.9301	169.8322	105.6737	.0010
.8824	709.5183	218.8946	.0010	3.0633	328.3413	120.7699	.0010
.9823	573.6532	279.2789	.0010	3.1632	290.6011	169.8322	.0010
1.0822	456.6585	249.0869	.0010	3.2298	90.5776	169.8322	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
BUSZA	PR	100	1339	69	SPARK CHAMBERS	NOT GIVEN	DSIG/DOH	VS COST PI+ ,PI+

DATA AT 2.1800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.5317	335.0010	28.0010	.0010	* 3.0299	100.0010	27.0010	.0010
2.5737	323.0010	24.0010	.0010	3.0337	119.0010	17.0010	.0010
2.6157	243.0010	21.0010	.0010	* 3.0426	116.0010	26.0010	.0010
2.6577	206.0010	19.0010	.0010	* 3.0634	106.0010	27.0010	.0010
2.6997	212.0010	19.0010	.0010	3.0757	65.0010	13.0010	.0010
2.7407	163.0010	17.0010	.0010	* 3.0779	94.0010	23.0010	.0010
* 2.7602	31.0010	33.0010	.0010	* 3.0969	85.0010	25.0010	.0010
* 2.7621	204.0010	204.0010	.0010	* 3.1132	124.0010	26.0010	.0010
2.7827	147.0010	16.0010	.0010	3.1177	59.0010	9.0010	.0010
* 2.7955	131.0010	36.0010	.0010	* 3.1303	65.0010	20.0010	.0010
* 2.7956	215.0010	64.0010	.0010	* 3.1484	91.0010	21.0010	.0010
2.8247	161.0010	17.0010	.0010	3.1597	84.0010	9.0010	.0010
* 2.8291	141.0010	37.0010	.0010	* 3.1638	120.0010	27.0010	.0010
* 2.8308	89.0010	25.0010	.0010	* 3.1837	130.0010	24.0010	.0010
* 2.8625	81.0010	27.0010	.0010	* 3.1973	109.0010	25.0010	.0010
* 2.8661	103.0010	27.0010	.0010	3.2017	82.0010	9.0010	.0010
2.8667	114.0010	14.0010	.0010	* 3.2190	157.0010	25.0010	.0010
* 2.8960	66.0010	24.0010	.0010	* 3.2308	120.0010	25.0010	.0010
* 2.9014	114.0010	28.0010	.0010	3.2437	101.0010	10.0010	.0010
2.9087	93.0010	12.0010	.0010	* 3.2543	252.0010	30.0010	.0010
* 2.9295	95.0010	28.0010	.0010	* 3.2642	155.0010	26.0010	.0010
* 2.9367	134.0010	29.0010	.0010	3.2857	145.0010	12.0010	.0010
2.9507	93.0010	12.0010	.0010	* 3.2896	348.0010	31.0010	.0010
2.9517	87.0010	12.0010	.0010	* 3.2977	223.0010	28.0010	.0010
* 2.9630	70.0010	24.0010	.0010	* 3.3178	499.0010	97.0010	.0010
* 2.9720	107.0010	26.0010	.0010	* 3.3245	316.0010	74.0010	.0010
* 2.9964	102.0010	28.0010	.0010	* 3.3426	610.0010	63.0010	.0010
* 3.0073	133.0010	29.0010	.0010	* 3.3479	406.0010	55.0010	.0010

REACTION $PI+ P = P PI+$

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES			
SIDWELL	PR	3 1523	71	SPARK CHAMBERS	NOT GIVEN	DSIG/DT	VS -T	PI+ ,P	
* CARROL	PRL	20 607	68	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS -T	PI+ ,P	

DATA AT 2.1900 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1178	20645.0426	1157.3180	.0010	1.4979	821.3227	205.3314	.0010
.1683	15567.7810	783.9899	.0010	1.5820	657.9584	190.3983	.0010
.2356	11423.8396	559.9931	.0010	1.6830	642.1253	93.3330	.0010
.2861	8026.5542	410.6619	.0010	1.7672	612.2590	70.9333	.0010
.3366	5786.5859	298.6634	.0010	1.9018	485.3275	29.8672	.0010
.4039	3919.9456	186.6650	.0010	2.0533	440.5281	22.4007	.0010
.4376	3173.2895	149.3322	.0010	2.2048	403.1953	22.4007	.0010
.5049	2053.3153	111.9994	.0010	2.3057	358.3959	29.8672	.0010
.5891	1235.7169	63.4668	.0010	2.3899	362.1292	18.6674	.0010
.6900	1022.9199	52.2669	.0010	2.5077	317.3298	14.9341	.0010
.7910	881.0552	44.8004	.0010	2.6424	257.5974	14.9341	.0010
.8752	671.9915	33.6005	.0010	2.7433	182.9317	18.6674	.0010
.9930	828.7893	63.4668	.0010	2.8611	164.2653	14.9341	.0010
1.0940	899.7216	67.2001	.0010	3.0126	156.7988	18.6674	.0010
1.2118	817.5894	78.3999	.0010	3.1136	138.1324	22.4007	.0010
1.3801	955.7208	205.3314	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
ALBROW	NP	B25 11	70	COUNTERS	5.0 P/C	DSIG/DOM	VS COST	PI+ ,PI+	

DATA AT 2.2700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0878	26194.9237	1681.9155	.0010	1.2817	869.5869	246.9203	.0010
.1229	23332.0890	1431.4174	.0010	1.5100	497.4184	243.3418	.0010
.1580	18894.6954	1216.7048	.0010	1.7382	182.5066	186.0852	.0010
.1931	15495.0793	1037.7777	.0010	1.8436	168.1925	128.8285	.0010
.2283	12095.4737	966.2068	.0010	1.9489	193.2423	128.8285	.0010
.2634	9912.5632	858.8512	.0010	2.0543	268.3917	110.9358	.0010
.2985	7980.1507	751.4950	.0010	2.1596	246.9203	89.4645	.0010
.3336	6691.8760	644.1386	.0010	2.2650	239.7633	85.8860	.0010
.3687	4330.0348	393.6406	.0010	2.3703	379.3264	100.2001	.0010
.4565	2701.8003	297.0199	.0010	2.4757	143.1427	89.4645	.0010
.5267	2057.6625	254.0775	.0010	2.5810	214.7135	85.8860	.0010
.5970	783.7119	153.8783	.0010	2.6864	153.8783	135.9856	.0010
.6672	608.3532	146.7212	.0010	2.8093	7.1581	53.6791	.0010
.7550	576.1462	125.2499	.0010	2.9497	75.1483 U	46.5221	.0010
.8603	422.2690	110.9358	.0010	3.0902	64.4147	57.2577	.0010
.9657	636.9816	161.0354	.0010	3.2307	53.6791	53.6791	.0010
1.0710	876.7439	221.8706	.0010	3.3360	264.8130	110.9358	.0010
1.1764	994.8352	239.7633	.0010	3.4063	211.1350	135.9856	.0010

U=UPPER LIMIT

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
BUSZA	PR	180 1339	69	SPARK CHAMBERS	NOT GIVEN	DSIG/DOM	VS COST	PI+ ,PI+	

DATA AT 2.2800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.6700	188.0010	21.0010	.0010	3.1110	117.0010	14.0010	.0010
2.7140	224.0010	20.0010	.0010	3.1550	101.0010	13.0010	.0010
2.7580	216.0010	19.0010	.0010	3.1990	86.0010	14.0010	.0010
2.8020	185.0010	18.0010	.0010	3.2430	116.0010	17.0010	.0010
2.8460	171.0010	17.0010	.0010	3.2870	113.0010	14.0010	.0010
2.8900	134.0010	15.0010	.0010	3.3310	97.0010	10.0010	.0010
2.9340	99.0010	13.0010	.0010	3.3750	117.0010	11.0010	.0010
2.9780	117.0010	14.0010	.0010	3.4200	164.0010	13.0010	.0010
3.0220	118.0010	14.0010	.0010	3.4640	196.0010	14.0010	.0010
3.0670	119.0010	14.0010	.0010	3.4900	263.0010	38.0010	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
SIDWELL	PR	3 1523	71	SPARK CHAMBERS	NOT GIVEN	DSIG/DT	VS -T	PI+ ,P	

DATA AT 2.3000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0620	31200.0010	1000.0010	.0010	* .8202	697.5947	35.2381	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 2.300 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0860	29400.0010	900.0008	.0010	* .9094	620.1732	31.7144	.0010
.0980	25000.0010	800.0008	.0010	.9810	670.3008	50.0010	.0010
.1160	22400.0010	800.0008	.0010	* 1.0521	690.5473	59.9040	.0010
* .1248	22658.3979	1692.3497	.0010	* 1.1590	747.0266	45.8092	.0010
.1340	20400.0010	700.0008	.0010	1.1600	740.0008	50.0010	.0010
.1520	19500.0010	700.0008	.0010	* 1.3017	732.9318	119.8070	.0010
.1690	17500.0010	700.0008	.0010	1.3400	870.0008	50.0010	.0010
.1870	15000.0010	600.0008	.0010	1.5200	690.0008	50.0010	.0010
* .1962	13249.1339	669.5051	.0010	* 1.5513	725.8843	38.7618	.0010
.2050	13900.0010	600.0008	.0010	1.6900	550.0008	40.0010	.0010
.2230	11500.0010	600.0008	.0010	* 1.7118	472.1775	151.5203	.0010
.2410	11900.0010	600.0008	.0010	* 1.8010	440.4642	105.7122	.0010
* .2496	9267.3466	458.0827	.0010	1.8700	410.0008	35.0010	.0010
.2590	9099.9971	500.0010	.0010	* 1.9436	338.2767	28.1906	.0010
.2760	7099.9971	400.0008	.0010	2.0500	360.0008	35.0010	.0010
.2940	7449.9971	450.0008	.0010	* 2.1219	278.3737	21.1432	.0010
* .3120	6699.9971	400.0008	.0010	2.2300	270.0008	30.0010	.0010
.3300	6799.9971	400.0008	.0010	* 2.2824	274.8500	17.6195	.0010
* .3388	5426.5076	281.8974	.0010	2.4100	290.0008	30.0010	.0010
.3480	5899.9971	400.0008	.0010	* 2.4607	253.7078	14.0958	.0010
.3740	4699.9971	250.0010	.0010	2.5900	260.0008	30.0010	.0010
.4100	3700.0008	200.0010	.0010	* 2.6212	257.2315	14.0958	.0010
* .4101	3277.0472	176.1863	.0010	2.7600	188.0009	20.0010	.0010
.4460	3100.0003	200.0010	.0010	* 2.7817	190.2811	10.5721	.0010
.4810	2350.0003	180.0009	.0010	2.9400	169.0010	20.0010	.0010
.5170	1660.0008	160.0009	.0010	* 2.9778	165.6152	14.0958	.0010
* .5171	1691.3797	70.4751	.0010	* 3.1740	186.7574	14.0958	.0010
* .6063	1025.3993	52.8566	.0010	3.3000	161.0009	20.0010	.0010
.6240	1170.0000	60.0010	.0010	* 3.3166	133.9018	31.7144	.0010
* .7133	792.8348	38.7618	.0010	3.4200	222.0009	40.0010	.0010
.8020	690.0008	50.0010	.0010	3.5000	356.0008	40.0010	.0010

COFFIN	PR	159	1169	67	SPARK CHAMBERS	5.0 P/C	DSIG/DT	VS -T PI+ ,PI+
* ALBROW	NP	B25	11	70	COUNTERS	5.0 P/C	DSIG/DOM	VS COST PI+ ,PI+

DATA AT 2.3600 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0919	21606.9582	2358.9891	.0010	1.3416	338.4645	266.6691	.0010
.1267	21230.8875	2085.4831	.0010	1.5989	683.7658	136.7539	.0010
.1654	15897.5214	1811.9771	.0010	1.8562	126.4974	242.7374	.0010
.2022	12273.5774	1367.5300	.0010	1.9665	396.5846	287.1822	.0010
.2389	11247.9326	1401.7182	.0010	2.0767	105.9845	191.4551	.0010
.2757	8444.4949	1196.5887	.0010	2.1870	270.0881	174.3610	.0010
.3124	6598.3297	1025.6475	.0010	2.2973	147.0004	133.3351	.0010
.3492	5162.4234	888.8945	.0010	2.4076	249.5750	153.8480	.0010
.4043	3042.7539	478.6364	.0010	2.5730	6.8386	75.2151	.0010
.4778	1504.2829	341.8833	.0010	2.7384	188.0363	129.9163	.0010
.5514	1264.9652	317.9516	.0010	2.8486	297.4385	177.7798	.0010
.6249	741.8857	242.7374	.0010	2.9589	58.1209	119.6598	.0010
.6984	468.3798	208.5492	.0010	3.0875	78.6339	105.9845	.0010
.7903	485.4739	181.1986	.0010	3.2346	290.6010	129.9163	.0010
.9005	413.6787	174.3610	.0010	3.3816	242.7374	123.0786	.0010
1.0108	649.5776	287.1822	.0010	3.4919	280.3444	191.4551	.0010
1.1211	502.5680	287.1822	.0010	3.5654	331.6268	317.9516	.0010
1.2313	410.2597	287.1822	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BUSZA	PR	180 1339 69	SPARK CHAMBERS NOT GIVEN DSIG/DOM VS COST PI+ ,PI+

DATA AT 2.3800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.8073	142.0010	20.0010	.0010	3.2713	144.0010	16.0010	.0010
2.8533	175.0010	18.0010	.0010	3.3373	113.0010	14.0010	.0010
2.9043	135.0010	15.0010	.0010	3.3643	92.0010	13.0010	.0010
2.9463	155.0010	16.0010	.0010	3.4103	109.0010	16.0010	.0010
2.9933	120.0010	14.0010	.0010	3.4573	123.0010	15.0010	.0010
3.0393	95.0010	13.0010	.0010	3.5033	116.0010	12.0010	.0010
3.0853	126.0010	15.0010	.0010	3.5493	128.0010	11.0010	.0010
3.1323	137.0010	15.0010	.0010	3.5963	193.0010	14.0010	.0010
3.1783	132.0010	15.0010	.0010	3.6423	287.0010	17.0010	.0010
3.2253	116.0010	14.0010	.0010	3.6693	333.0010	44.0010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
SIDWELL	PR	3 1523 71	SPARK CHAMBERS NOT GIVEN DSIG/DT VS -T PI+ ,P

REACTION PI+ P = P PI+

DATA AT 2.3900 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1306	21525.6450	1677.9675	.0010	1.6227	697.3106	37.0561	.0010
.2052	13946.1929	707.4165	.0010	1.7160	727.6284	293.0731	.0010
.2798	9162.7164	471.6114	.0010	1.8279	613.0945	175.1706	.0010
.3544	5255.0878	269.4926	.0010	1.9771	357.0774	40.4247	.0010
.4477	2863.3496	134.7468	.0010	2.1636	222.3316	20.2129	.0010
.5223	1684.3237	101.0604	.0010	2.3315	239.1748	16.8442	.0010
.5596	1280.0062	67.3739	.0010	2.5367	239.1748	13.4756	.0010
.6528	980.2768	50.5307	.0010	2.7045	218.9629	13.4756	.0010
.7834	680.4674	33.6875	.0010	2.8165	161.6960	10.1069	.0010
.9326	754.5776	37.0561	.0010	2.9657	158.3273	10.1069	.0010
1.0445	704.0479	43.7934	.0010	3.1335	175.1706	10.1069	.0010
1.1751	734.3657	40.4247	.0010	3.3211	175.1706	10.1069	.0010
1.3056	714.1538	94.3231	.0010	3.4693	198.7511	23.5815	.0010
1.4735	616.4631	208.8570	.0010				

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 ALEROM NP 825 11 70 COUNTERS 5.0 P/C DSIG/DOH VS COST PI+ ,PI+

DATA AT 2.4600 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0965	24850.8624	1530.7880	.0010	1.4469	371.2983	123.7668	.0010
.1350	21919.5666	1302.7983	.0010	1.6976	387.5833	55.3699	.0010
.1736	16545.5244	1042.2387	.0010	1.9484	172.6217	117.2528	.0010
.2122	12116.0211	846.8190	.0010	2.0642	231.2476	117.2528	.0010
.2508	9315.0160	749.1098	.0010	2.1799	172.6217	104.2248	.0010
.2894	7751.6466	683.9699	.0010	2.2957	68.3978	78.1688	.0010
.3280	5699.7428	586.2600	.0010	2.4114	35.8279	55.3699	.0010
.3665	4527.2221	488.5502	.0010	2.5272	120.5098	61.8838	.0010
.4244	2647.9374	263.8175	.0010	2.6429	78.1688	58.6269	.0010
.5016	1898.8285	224.7335	.0010	2.7587	100.9678	55.3699	.0010
.5788	1123.6636	172.6217	.0010	2.8744	127.0238	65.1408	.0010
.6559	543.9191	123.7668	.0010	3.0095	140.0517	58.6269	.0010
.7524	374.5553	91.1968	.0010	3.1638	192.1637	61.8838	.0010
.8681	436.4382	100.9678	.0010	3.3181	159.5937	52.1129	.0010
.9839	384.3263	100.9678	.0010	3.4725	110.7388	45.5989	.0010
1.0996	478.7791	140.0517	.0010	3.5882	227.9906	91.1968	.0010
1.2154	654.6570	156.3367	.0010	3.6654	325.7004	110.7388	.0010
1.3311	573.2321	153.0797	.0010	3.7425	123.7668	127.0238	.0010

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 BUSZA PR 180 1339 69 SPARK CHAMBERS NOT GIVEN DSIG/DOH VS COST PI+ ,PI+

DATA AT 2.4800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
3.3692	188.0010	40.0010	.0010	3.6807	146.0010	29.0010	.0010
3.4081	120.0010	30.0010	.0010	3.7197	191.0010	32.0010	.0010
3.4471	164.0010	36.0010	.0010	3.7586	193.0010	31.0010	.0010
3.4860	145.0010	32.0010	.0010	3.7976	239.0010	31.0010	.0010
3.5250	147.0010	32.0010	.0010	3.8365	479.0010	42.0010	.0010
3.5639	130.0010	29.0010	.0010	3.8653	629.0010	139.0010	.0010
3.6029	135.0010	29.0010	.0010	3.8949	928.0010	68.0010	.0010
3.6418	130.0010	26.0010	.0010				

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 CARROL PRL 20 607 68 BUBBLE CHAMBER NOT GIVEN DSIG/DT VS -T PI+ ,P

DATA AT 2.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0690	32800.0010	1009.0010	.0010	.6880	671.0008	44.0010	.0010
.0880	28300.0010	960.0008	.0010	.8840	505.0008	38.0010	.0010
.1060	24600.0010	800.0008	.0010	.9829	511.4243	127.8568	.0010
.1280	21700.0010	800.0008	.0010	1.0800	585.0008	44.0010	.0010
.1470	20600.0010	800.0008	.0010	1.2900	649.0008	48.0010	.0010
.1651	9972.7567	1502.3065	.0010	1.3750	543.3882	127.8568	.0010
.1676	18500.0010	700.0008	.0010	1.4700	658.0008	48.0010	.0010
.1870	15300.0010	700.0008	.0010	1.6700	518.0008	38.0010	.0010
.2060	13100.0010	600.0008	.0010	1.7691	255.7126	63.9289	.0010
.2260	11200.0010	500.0010	.0010	1.8700	352.0008	35.0010	.0010
.2460	10200.0010	500.0010	.0010	2.0600	202.0009	26.0010	.0010
.2596	7990.9318	1214.6308	.0010	2.1623	319.6405	95.8928	.0010
.2690	7899.9971	480.0008	.0010	2.2600	82.0009	22.0010	.0010

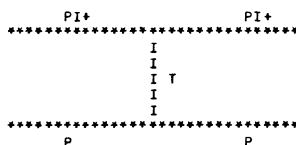
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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 2.500 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2850	8279.9971	480.0008	.0010	2.4600	133.0009	21.0010	.0010
.3050	6139.9971	410.0008	.0010	* 2.5554	63.9289	31.9650	.0010
.3240	6649.9971	410.0008	.0010	2.6500	147.0009	22.0010	.0010
* .3440	4954.4122	735.1720	.0010	2.8500	130.0010	20.0010	.0010
.3640	5239.9971	380.0008	.0010	* 2.9486	191.7847	63.9289	.0010
.3830	5309.9971	380.0008	.0010	3.0500	143.0009	21.0010	.0010
.4130	3800.0000	320.0008	.0010	3.2400	185.0009	23.0010	.0010
.4520	2340.0000	210.0010	.0010	* 3.3417	223.7487	63.9289	.0010
.4910	1600.0000	180.0009	.0010	3.4400	207.0009	24.0010	.0010
* .4914	2237.4777	351.6044	.0010	* 3.6366	191.7847	63.9289	.0010
.5310	1430.0000	140.0010	.0010	3.6400	142.0009	19.0010	.0010
.5700	1130.0000	130.0010	.0010	* 3.7700	261.0008	43.0010	.0010
* .6860	926.9952	191.7847	.0010	3.7840	287.6766	159.8208	.0010
				3.8600	464.0008	45.0010	.0010

	REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
COFFIN	PR 159 1169 67	SPARK CHAMBERS	5.0 P/C	VS -T PI+ ,PI+
* COOK	PR 130 762 63	SPARK CHAMBERS	15.0 P/C	VS COST PI+ ,PI+



DATA AT 2.560J GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+ -			+ -		
.1010	24161.0989	2332.1545	.0010	1.3942	466.4316	223.8876	.0010
.1415	18066.4444	1772.4369	.0010	1.5155	708.9756	258.0925	.0010
.1819	19081.2480	1492.5785	.0010	1.7984	413.5694	87.0680	.0010
.2223	11194.3354	1337.1016	.0010	2.0812	130.6015	189.6828	.0010
.2627	8178.0828	1057.2432	.0010	2.2025	177.2446	192.7923	.0010
.3031	7151.9353	995.0524	.0010	2.3237	65.3112	139.9301	.0010
.3435	6219.0769	901.7663	.0010	2.5056	55.9726	77.7394	.0010
.3839	3824.7312	684.0992	.0010	2.6874	239.4353	127.4920	.0010
.4445	2695.9697	404.2409	.0010	2.8087	158.5874	105.7252	.0010
.5254	1184.7342	286.0783	.0010	3.0107	9.3296	52.8631	.0010
.6062	516.1041	183.4637	.0010	3.2330	74.6298	87.0680	.0010
.6870	226.9371	143.0397	.0010	3.3946	155.4778	93.2871	.0010
.7881	344.7357	124.3825	.0010	3.5563	351.3787	124.3825	.0010
.9093	429.1171	158.5874	.0010	3.7179	364.7357	111.9443	.0010
1.0305	376.2550	155.4778	.0010	3.8392	426.0075	199.0112	.0010
1.1518	693.4279	258.0925	.0010	3.9200	236.3258	233.2163	.0010
1.2730	914.2444	286.0783	.0010				

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 BUSZA PR 180 1339 69 SPARK CHAMBERS NOT GIVEN DSIG/DOM VS COST PI+ ,PI+

DATA AT 2.5600 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+ -			+ -		
3.4867	118.0010	43.0010	.0010	3.8129	103.0010	24.0010	.0010
3.5274	198.0010	40.0010	.0010	3.8536	128.0010	26.0010	.0010
3.5682	187.0010	38.0010	.0010	3.8944	166.0010	28.0010	.0010
3.6090	188.0010	35.0010	.0010	3.9352	298.0010	36.0010	.0010
3.6498	169.0010	35.0010	.0010	3.9760	385.0010	38.0010	.0010
3.6905	171.0010	33.0010	.0010	4.0167	486.0010	39.0010	.0010
3.7313	147.0010	29.0010	.0010	4.0493	795.0010	138.0010	.0010
3.7721	146.0010	29.0010	.0010	4.0779	861.0010	78.0010	.0010

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 CARROL PRL 20 607 68 BUBBLE CHAMBER NOT GIVEN DSIG/DT VS -T PI+ ,P

DATA AT 2.6500 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+ -			+ -		
.1052	23064.3550	1523.6825	.0010	1.5773	256.9355	113.5302	.0010
.1472	19987.1145	1284.6735	.0010	1.8718	286.8116	50.7903	.0010
.1893	16252.5394	1045.6645	.0010	2.1662	74.6912	95.6045	.0010
.2313	10546.2704	776.7794	.0010	2.2924	140.4187	116.5178	.0010
.2734	8903.0837	746.9040	.0010	2.4186	62.7508	89.6293	.0010
.3155	5437.4536	537.7710	.0010	2.5447	104.5674	83.6541	.0010
.3575	4242.4473	478.0188	.0010	2.6709	8.9538	53.7780	.0010
.3996	3405.8767	418.2666	.0010	2.7971	80.5665	59.7532	.0010
.4627	1980.7871	227.0594	.0010	2.9233	65.7284	53.7780	.0010
.5468	979.9371	164.3196	.0010	3.0495	107.5550	59.7532	.0010
.6309	519.8454	119.5054	.0010	3.1967	23.9019	44.8152	.0010
.7151	364.4896	101.5798	.0010	3.3649	59.7532	50.7903	.0010
.8202	519.8454	101.5798	.0010	3.5332	80.6665	53.7780	.0010
.9464	373.4525	98.5921	.0010	3.7014	149.3815	65.7284	.0010
1.0726	310.7126	92.6169	.0010	3.8697	149.3815	62.7408	.0010
1.1988	388.3905	125.4807	.0010	3.9959	241.9975	101.5798	.0010
1.3249	334.6135	119.5054	.0010	4.0800	155.3568	125.4807	.0010
1.4511	388.3905	131.4559	.0010				

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 BUSZA PR 180 1339 69 SPARK CHAMBERS NOT GIVEN DSIG/DOM VS COST PI+ ,PI+

DATA AT 2.7000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+ -			+ -		
.0540	32700.010	1000.0010	.0010	.5800	940.0008	110.0009	.0010
.0750	29000.010	900.0008	.0010	.6230	670.0008	100.0009	.0010
.0970	26800.010	900.0008	.0010	.7520	460.0008	30.0010	.0010
.1180	22700.010	800.0008	.0010	.9670	510.0008	40.0010	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 2.700 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1400	1860.0010	700.0008	.0010	1.1820	450.0008	50.0010	.0010
.1610	17400.0010	700.0008	.0010	1.4000	520.0008	40.0010	.0010
.1830	15300.0010	600.0008	.0010	1.6100	420.0008	40.0010	.0010
.2040	13150.0010	600.0008	.0010	1.8300	330.0008	30.0010	.0010
.2260	10200.0010	500.0010	.0010	2.0400	160.0009	20.0010	.0010
.2470	9000.0010	500.0010	.0010	2.2600	91.0009	17.0010	.0010
.2690	7799.9971	500.0010	.0010	2.4700	39.0010	11.0010	.0010
.2900	7500.0010	400.0008	.0010	2.6900	39.0010	11.0010	.0010
.3120	6549.9971	400.0008	.0010	2.9000	50.0010	12.0010	.0010
.3330	5379.9971	400.0008	.0010	3.1200	66.0010	14.0010	.0010
.3550	4729.9971	400.0008	.0010	3.3300	123.0009	19.0010	.0010
.3760	3800.0008	300.0008	.0010	3.5500	149.0010	20.0010	.0010
.3980	3280.0005	300.0008	.0010	3.7600	184.0009	23.0010	.0010
.4110	2370.0008	180.0009	.0010	3.9800	216.0009	26.0010	.0010
.4190	2310.0003	250.0010	.0010	4.1300	252.0010	53.0010	.0010
.4940	1550.0000	150.0010	.0010	4.2200	458.0008	68.0009	.0010
.5370	1260.0003	130.0010	.0010				

COFFIN	REFERENCE	159	1169	67	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
	PR				SPARK CHAMBERS	5.0 P/C	DSIG/DT	VS	-T	PI+, PI+

DATA AT 2.7400 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1093	16673.4953	833.6757	.0010	1.5518	379.4667	43.1221	.0010
.1749	14057.4815	689.9387	.0010	1.9015	215.5065	14.3747	.0010
.2623	8164.2637	402.4647	.0010	2.8414	163.4917	25.8737	.0010
.3497	4197.1220	201.2328	.0010	3.0162	91.9927	11.5000	.0010
.4590	1868.5823	86.2432	.0010	3.1692	86.2432	8.6252	.0010
.5683	896.9200	45.9968	.0010	3.3222	132.2391	11.5000	.0010
.6994	491.5816	25.8737	.0010	3.4533	117.8654	8.6252	.0010
.8306	436.9615	22.9989	.0010	3.5845	137.9885	11.5000	.0010
.9617	445.5858	22.9989	.0010	3.6938	160.9885	11.5000	.0010
1.1147	508.8300	25.8737	.0010	3.8249	158.1117	11.5000	.0010
1.2458	482.9574	28.7484	.0010	3.9998	103.4917	8.6252	.0010
1.3770	402.4647	20.1242	.0010				

ALBROW	REFERENCE	825	11	70	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
	NP				COUNTERS	5.0 P/C	DSIG/DT	VS	COST	PI+, PI+

DATA AT 2.7500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
3.5396	132.0010	14.0010	.0010	3.9236	146.0010	15.0010	.0010
3.5946	145.0010	15.0010	.0010	3.9786	159.0010	15.0010	.0010
3.6486	122.0010	13.0010	.0010	4.0326	83.0010	12.0010	.0010
3.6796	110.0010	13.0010	.0010	4.0876	100.0010	14.0010	.0010
3.7036	153.0010	15.0010	.0010	4.1426	108.0010	12.0010	.0010
3.7046	91.0010	13.0010	.0010	4.1976	134.0010	10.0010	.0010
3.7296	88.0010	15.0010	.0010	4.2526	190.0010	13.0010	.0010
3.7586	128.0010	14.0010	.0010	4.3076	291.0010	16.0010	.0010
3.8136	148.0010	15.0010	.0010	4.3406	420.0010	35.0010	.0010
3.8686	146.0010	15.0010	.0010				

SIDWELL	REFERENCE	3	1523	71	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
	PR				SPARK CHAMBERS	NOT GIVEN	DSIG/DT	VS	-T	PI+, P

DATA AT 2.7800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
3.8448	187.0010	49.0010	.0010	4.2004	101.0010	24.0010	.0010
3.8893	164.0010	37.0010	.0010	4.2448	88.0010	23.0010	.0010
3.9337	150.0010	35.0010	.0010	4.2893	177.0010	31.0010	.0010
3.9822	164.0010	35.0010	.0010	4.3337	327.0010	39.0010	.0010
4.0226	148.0010	33.0010	.0010	4.3781	469.0010	41.0010	.0010
4.0670	165.0010	34.0010	.0010	4.4136	760.0010	133.0010	.0010
4.1115	149.0010	32.0010	.0010	4.4447	878.0010	90.0010	.0010
4.1559	81.0010	23.0010	.0010				

CARROL	REFERENCE	20	607	68	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
	PRL				BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS	-T	PI+, P

REACTION PI+ P = P PI+

DATA AT 2.8000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1120	22656.6641	1598.3052	.0010	1.6358	168.2435	112.1627	.0010
.1569	17665.4685	1205.7393	.0010	1.9495	187.8718	42.0616	.0010
.2017	15057.7990	1037.4967	.0010	2.2632	120.5748	103.7506	.0010
.2465	9309.4220	729.0520	.0010	2.3976	182.2638	112.1627	.0010
.2913	8636.4518	757.0925	.0010	2.5321	92.5344	103.7506	.0010
.3361	5075.3178	532.7691	.0010	2.6665	95.3384	89.7304	.0010
.3809	3953.7009	476.6882	.0010	2.8010	16.8253	72.9061	.0010
.4258	2276.8835	364.5265	.0010	2.9354	157.0274	84.1223	.0010
.4930	1794.5882	221.5204	.0010	3.0699	92.5344	61.6899	.0010
.5826	973.0037	165.4395	.0010	3.2043	86.9263	50.4738	.0010
.6722	434.6276	109.3587	.0010	3.3387	201.8921	72.9061	.0010
.7619	524.3569	120.5748	.0010	3.4732	103.7506	61.6899	.0010
.8515	263.5810	95.3384	.0010	3.6076	120.5748	67.2980	.0010
.9635	381.3508	95.3384	.0010	3.7645	100.9465	50.4738	.0010
1.0980	454.2559	72.9061	.0010	3.9437	286.0133	72.9061	.0010
1.2324	471.0801	148.6153	.0010	4.1230	187.8718	61.6899	.0010
1.3669	431.8235	140.2031	.0010	4.2575	42.0616	84.1223	.0010
1.5013	437.4316	137.3991	.0010	4.3471	131.7910	112.1627	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BUSZA PR 180 1339 69	SPARK CHAMBERS	NOT GIVEN	VS COST PI+ ,PI+

DATA AT 2.8500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
4.4888	107.1609	41.2164	.0010	4.5346	368.1916	41.2164	.0010
4.4980	192.3394	49.4594	.0010	4.5437	390.1731	38.4687	.0010
4.5071	310.4901	54.9548	.0010	4.5529	417.5500	38.4687	.0010
4.5163	321.4808	49.4594	.0010	4.5620	461.6131	41.2164	.0010
4.5254	335.2193	43.9641	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BAKER NP 89 249 69	SPARK CHAMBERS	NOT GIVEN	VS COST PI+ ,PI+

DATA AT 2.9200 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0823	19589.0264	1710.3661	.0010	.4937	1042.2547	240.5211	.0010
.1176	12827.7393	881.9080	.0010	.5408	1149.1526	267.2455	.0010
.1646	10182.0183	775.0102	.0010	.5878	721.5613	213.7966	.0010
.2116	6146.6256	561.2146	.0010	.7524	229.8313	58.7948	.0010
.2586	4329.3627	481.0412	.0010	1.0462	42.7601	37.4152	.0010
.3057	2752.6199	347.4189	.0010	2.0572	61.4672	32.0703	.0010
.3527	2325.0286	347.4189	.0010	3.1740	93.5366	56.1224	.0010
.3997	1897.4373	320.6945	.0010	4.1144	10.6908	10.6908	.0010
.4467	1416.3371	293.9700	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
PERL PR 132 1252 63	SPARK CHAMBERS	NOT GIVEN	VS COST PI+ ,PI+

DATA AT 2.9300 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
4.0778	77.0010	29.0010	.0010	4.4584	44.0010	11.0010	.0010
4.1254	79.0010	18.0010	.0010	4.5060	76.0010	15.0010	.0010
4.1730	93.0010	19.0010	.0010	4.5535	88.0010	15.0010	.0010
4.2205	81.0010	16.0010	.0010	4.6011	115.0010	15.0010	.0010
4.2681	77.0010	16.0010	.0010	4.6487	247.0010	21.0010	.0010
4.3157	78.0010	15.0010	.0010	4.6844	342.0010	75.0010	.0010
4.3633	31.0010	10.0010	.0010	4.7201	541.0010	41.0010	.0010
4.4108	78.0010	16.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CARROL PRL 20 607 68	BUBBLE CHAMBER	NOT GIVEN	VS -T PI+ ,P

REACTION PI+ P = P PI+

DATA AT 3.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0050	29080.0010	1130.0010	.0010	* 3.7892	64.0010	11.0010	.0010
.1090	26170.0010	1650.0010	.0010	* 3.8492	78.0010	10.0010	.0010
.1330	22070.0010	980.0010	.0010	* 3.9102	69.0010	8.0010	.0010
.1570	18610.0010	870.0010	.0010	* 3.9702	82.0010	9.0010	.0010
.1820	15580.0010	820.0010	.0010	* 4.0100	129.0010	22.0010	.0010
.2060	14670.0010	800.0010	.0010	* 4.0312	163.0010	10.0010	.0010
.2300	11830.0010	680.0010	.0010	* 4.0922	99.0010	10.0010	.0010
.2540	9150.0010	610.0010	.0010	* 4.1522	75.0010	9.0010	.0010
.2910	7960.0010	400.0010	.0010	* 4.2132	95.0010	10.0010	.0010
.3390	5210.0010	350.0010	.0010	* 4.2400	122.0010	22.0010	.0010
.3880	3830.0010	280.0010	.0010	* 4.2742	73.0010	9.0010	.0010
.4360	2200.0010	210.0010	.0010	* 4.3342	68.0010	8.0010	.0010
.5160	1910.0010	150.0010	.0010	* 4.3952	84.0010	9.0010	.0010
.6420	811.0010	73.0010	.0010	* 4.4552	53.0010	8.0010	.0010
.8480	545.0010	51.0010	.0010	* 4.4800	71.0010	16.0010	.0010
1.0900	417.0010	45.0010	.0010	* 4.5162	50.0010	9.0010	.0010
1.3360	390.0010	41.0010	.0010	* 4.5772	37.0010	6.0010	.0010
1.7640	232.0010	24.0010	.0010	* 4.6372	47.0010	5.0010	.0010
2.3600	70.0010	11.0010	.0010	* 4.6982	116.0010	8.0010	.0010
2.9740	26.0010	7.0010	.0010	* 4.7200	113.0010	22.0010	.0010
3.5800	71.0010	11.0010	.0010	* 4.7592	155.0010	10.0010	.0010
* 3.7282	44.0010	11.0010	.0010	* 4.7992	175.0010	17.0010	.0010

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
COFFIN PR 159 1169 67	SPARK CHAMBERS	5.0 P/C	VS -T PI+ ,PI+
* SIDWELL PR 3 1523 71	SPARK CHAMBERS	NOT GIVEN	VS -T PI+ ,P

DATA AT 3.2500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
4.2159	44.9606	8.0464	.0010	4.8129	31.4727	4.7336	.0010
4.2819	44.0141	6.6266	.0010	4.8789	17.3848	3.7871	.0010
4.3479	44.9606	6.1534	.0010	4.9459	23.4273	5.2068	.0010
4.4149	40.2280	5.9167	.0010	5.0119	13.2522	4.0237	.0010
4.4809	37.1518	5.4435	.0010	5.0779	12.7790	3.3138	.0010
4.5469	48.5100	6.3900	.0010	5.1449	40.4646	4.9702	.0010
4.6139	47.0302	6.3900	.0010	5.2109	68.8602	6.6266	.0010
4.6799	41.8844	5.9167	.0010	5.2529	95.1260	13.7255	.0010
4.7469	42.3577	5.9167	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
SIDWELL PR 3 1523 71	SPARK CHAMBERS	NOT GIVEN	VS -T PI+ ,P

DATA AT 3.3000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
5.3057	54.1333	20.4685	.0010	5.3543	80.0102	15.3516	.0010
5.3219	57.4495	18.1426	.0010	5.3705	106.5249	13.7235	.0010
5.3381	59.3162	15.3516	.0010	5.3867	135.1329	17.4449	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BAKER NP B9 249 69	SPARK CHAMBERS	NOT GIVEN	VS COST PI+ ,PI+

DATA AT 3.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1010	21400.0010	900.0010	.0010	* 4.6546	30.0419	7.1847	.0010
.1300	17500.0010	800.0010	.0010	* 4.7266	31.3480	6.0962	.0010
.1590	13900.0010	700.0010	.0010	* 4.7600	27.0010	10.0010	.0010
.1870	11700.0010	600.0010	.0010	* 4.7986	25.5881	4.7901	.0010
.2160	9250.0010	590.0010	.0010	* 4.8706	31.1303	4.7901	.0010
.2450	8360.0010	570.0010	.0010	* 4.9426	25.2527	3.9194	.0010
.2740	7310.0010	520.0010	.0010	* 5.0156	22.4228	3.4840	.0010
.3030	5220.0010	430.0010	.0010	* 5.0500	14.0010	5.0010	.0010
.3320	4290.0010	390.0010	.0010	* 5.0876	25.4704	3.7017	.0010
.3750	3660.0010	260.0010	.0010	* 5.1596	33.0895	3.9194	.0010
.4470	1990.0010	160.0010	.0010	* 5.2316	20.8990	3.0486	.0010
.5340	1150.0010	120.0010	.0010	* 5.3036	18.0691	2.8309	.0010
.6350	684.0010	80.0010	.0010	* 5.3400	23.0010	9.0010	.0010
.7790	409.0010	52.0010	.0010	* 5.3756	9.1439	2.8309	.0010
1.0100	252.0010	30.0010	.0010	* 5.4476	12.8446	3.2663	.0010
1.3000	194.0010	28.0010	.0010	* 5.5206	8.9262	2.6132	.0010
1.5900	120.0010	23.0010	.0010	* 5.5926	17.4160	2.8309	.0010
2.0900	30.0010	7.0010	.0010	* 5.6100	25.0010	10.0010	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 3.500 GEV/C

	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	2.8100	6.0010	3.0010	.0010	*	5.6646	36.5725	4.3547	.0010
	3.5300	16.0010	5.0010	.0010	*	5.7136	47.6746	7.8377	.0010
	4.2600	14.0010	5.0010	.0010					

	REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
COFFIN	PR 159 1169 67	SPARK CHAMBERS	5.0 P/C	VS -T PI+ ,PI+
* SIDWELL	PR 3 1523 71	SPARK CHAMBERS	NOT GIVEN	VS -T PI+ ,P

DATA AT 3.5500 GEV/C FOLLOW

	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	5.7332	25.4972	12.6420	.0010	*	5.8000	73.5010	11.6010	.0010
*	5.7420	28.2010	14.1010	.0010		5.8036	67.7051	8.9996	.0010
	5.7450	31.9248	12.2134	.0010	*	5.8120	71.3010	9.8010	.0010
*	5.7540	55.6010	16.9010	.0010		5.8153	68.3478	8.1426	.0010
	5.7567	50.7791	13.2847	.0010	*	5.8240	81.0010	9.0010	.0010
*	5.7650	31.7010	10.7010	.0010		5.8271	96.8436	9.2139	.0010
	5.7684	41.5662	10.0709	.0010	*	5.8360	98.8010	9.3010	.0010
*	5.7770	67.8010	14.0010	.0010		5.8388	107.9847	9.2139	.0010
	5.7802	77.9893	12.2134	.0010	*	5.8470	129.6010	9.5010	.0010
*	5.7890	56.5010	11.4010	.0010		5.8505	126.4105	9.8567	.0010
	5.7919	50.3506	8.5711	.0010					

	REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
BAKER	NP 89 249 69	SPARK CHAMBERS	NOT GIVEN	VS COST PI+ ,PI+
* BAKER	PL 23 605 66	SPARK CHAMBERS	10.0 P/C	VS -T PI+ ,PI+

DATA AT 3.6000 GEV/C FOLLOW

	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	.0750	27760.0010	1150.0010	.0010		1.5500	148.0010	36.0010	.0010
	.1250	18780.0010	750.0010	.0010		1.6500	121.0010	30.0010	.0010
	.1750	14620.0010	610.0010	.0010		1.7500	60.0010	20.0010	.0010
	.2250	9230.0010	490.0010	.0010		1.8500	47.0010	18.0010	.0010
	.2750	7560.0010	420.0010	.0010		1.9500	60.0010	20.0010	.0010
	.3250	5450.0010	350.0010	.0010		2.0500	54.0010	19.0010	.0010
	.3750	3570.0010	280.0010	.0010		2.2500	20.0010	6.0010	5.0010
	.4250	2780.0010	230.0010	.0010		2.5500	12.0010	5.0010	4.0010
	.4750	1810.0010	200.0010	.0010		2.8500	6.0010	4.0010	2.0010
	.5250	1680.0010	170.0010	.0010		3.1500	3.0010	3.0010	1.5010
	.5750	910.0010	130.0010	.0010		3.4500	5.0010	3.5010	2.0010
	.6500	890.0010	80.0010	.0010		3.7500	9.0010	5.0010	3.0010
	.7500	460.0010	60.0010	.0010		4.0500	12.0010	5.0010	4.0010
	.8500	376.0010	52.0010	.0010		4.3500	11.0010	5.0010	3.0010
	.9500	302.0010	48.0010	.0010		4.6500	15.0010	6.0010	4.0010
	1.0500	181.0010	38.0010	.0010		4.9500	35.0010	8.0010	7.0010
	1.1500	289.0010	47.0010	.0010		5.2500	28.0010	7.0010	6.0010
	1.2500	235.0010	41.0010	.0010		5.5500	34.0010	8.0010	7.0010
	1.3500	154.0010	32.0010	.0010		5.8500	18.0010	6.0010	5.0010
	1.4500	168.0010	38.0010	.0010		6.0250	92.0010	34.0010	25.0010

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
NAUGHTON	NP 833 101 71	BUBBLE CHAMBER	NOT GIVEN	VS -T PI+ ,PI+

DATA AT 3.7000 GEV/C FOLLOW

	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	.1080	21420.0010	890.0010	.0010		.9980	188.0010	37.0010	.0010
	.1380	17930.0010	810.0010	.0010		1.1500	228.0010	41.0010	.0010
	.1690	14660.0010	710.0010	.0010		1.3800	137.0010	23.0010	.0010
	.2000	9330.0010	570.0010	.0010		1.6900	65.0010	16.0010	.0010
	.2300	8960.0010	550.0010	.0010		2.2300	21.0010	6.0010	.0010
	.2610	6930.0010	490.0010	.0010		2.9900	3.0010	2.0010	.0010
	.2920	6590.0010	480.0010	.0010		3.7600	4.0010	2.0010	.0010
	.3380	4380.0010	280.0010	.0010		4.5300	16.0010	5.0010	.0010
	.3990	2870.0010	220.0010	.0010		5.0700	27.0010	10.0010	.0010
	.4610	1890.0010	180.0010	.0010		5.3800	27.0010	10.0010	.0010
	.5530	1130.0010	100.0010	.0010		5.6800	28.0010	10.0010	.0010
	.6910	532.0010	61.0010	.0010		5.9700	36.0010	11.0010	.0010
	.8450	352.0010	51.0010	.0010					

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
COFFIN	PR 159 1169 67	SPARK CHAMBERS	5.0 P/C	VS -T PI+ ,PI+

REACTION PI+ P = P PI+

DATA AT 3.7500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
5.1054	18.1384	4.6361	.0010	5.7294	20.7582	2.6208	.0010
5.1834	17.7353	4.0315	.0010	5.8074	26.4010	3.2254	.0010
5.2614	17.1307	3.4269	.0010	5.8854	11.8911	3.2254	.0010
5.3394	21.3628	3.4269	.0010	5.9624	9.6743	2.4193	.0010
5.4174	24.5872	3.4269	.0010	6.0404	13.5033	2.0163	.0010
5.4954	21.9674	3.0239	.0010	6.1184	37.0819	3.6285	.0010
5.5734	29.6254	3.2254	.0010	6.1714	54.6146	7.4575	.0010
5.6514	19.1460	2.6208	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
SIDWELL PR 3 1523 71	SPARK CHAMBERS	NOT GIVEN	DSIG/DT VS -T PI+ ,P

DATA AT 4.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0300	39200.0010	2900.0010	.0010	* 1.1700	156.0010	19.0010	.0010
.0500	30400.0010	2100.0010	.0010	1.2500	137.0010	21.0010	.0010
.0700	24800.0010	1500.0010	.0010	* 1.5100	49.0010	11.0010	.0010
* .0840	22400.0010	730.0010	.0010	1.7500	48.0010	13.0010	.0010
.0900	22700.0010	1500.0010	.0010	* 1.8400	62.0010	13.0010	.0010
.1100	17800.0010	1300.0010	.0010	* 2.4300	5.0010	2.0010	.0010
* .1170	17920.0010	640.0010	.0010	2.5000	3.4010	2.4010	.0010
.1300	13300.0010	1100.0010	.0010	* 3.2600	3.0010	2.0010	.0010
.1500	15200.0010	1200.0010	.0010	3.5000	1.7010	1.7010	.0010
* .1510	15000.0010	580.0010	.0010	* 4.1000	4.0010	2.0010	.0010
.1700	12600.0010	1040.0010	.0010	4.5000	5.1010	2.9010	.0010
* .1840	12520.0010	540.0010	.0010	* 4.9600	4.0010	2.0010	.0010
.1900	12900.0010	1050.0010	.0010	5.2500	10.0010	6.0010	.0010
* .2180	9300.0010	470.0010	.0010	+ 5.4912	11.2558	4.1278	.0010
.2200	9650.0010	640.0010	.0010	* 5.5300	15.0010	6.0010	.0010
* .2510	7490.0010	410.0010	.0010	+ 5.5692	12.0061	3.3774	.0010
.2600	7090.0010	550.0010	.0010	+ 5.6522	17.6335	3.5650	.0010
* .2850	6290.0010	380.0010	.0010	+ 5.7362	17.6335	3.0023	.0010
.3000	4650.0010	440.0010	.0010	5.7500	14.0010	7.0010	.0010
* .3180	5680.0010	360.0010	.0010	+ 5.8202	16.3204	2.6271	.0010
.3400	3540.0010	390.0010	.0010	* 5.8700	36.0010	10.0010	.0010
* .3520	3710.0010	300.0010	.0010	+ 5.9042	18.1962	2.6271	.0010
.3800	2440.0010	320.0010	.0010	+ 5.9872	18.5714	2.4395	.0010
* .4020	2830.0010	190.0010	.0010	+ 6.0712	18.0086	2.4395	.0010
.4200	2600.0010	330.0010	.0010	+ 6.1552	24.5739	2.8147	.0010
* .4590	2060.0010	150.0010	.0010	* 6.2000	19.0010	7.0010	.0010
.4600	1830.0010	280.0010	.0010	+ 6.2392	16.5080	2.2520	.0010
.5000	1580.0010	260.0010	.0010	* 6.3222	12.0061	2.4395	.0010
* .5360	1110.0010	110.0010	.0010	6.3400	36.0010	9.0010	.0010
.5400	1200.0010	230.0010	.0010	+ 6.4062	14.0695	2.4395	.0010
.5800	550.0010	150.0010	.0010	+ 6.4902	8.2545	1.8768	.0010
* .6040	830.0010	90.0010	.0010	* 6.5200	28.0010	9.0010	.0010
.7000	453.0010	62.0010	.0010	+ 6.5732	25.8870	3.3774	.0010
* .7040	510.0010	74.0010	.0010	+ 6.6322	42.7691	6.0035	.0010
* .8900	234.0010	26.0010	.0010	\$ 6.6480	100.0010	23.0010	.0010
.9000	248.0010	46.0010	.0010	\$ 6.6860	177.0010	47.0010	.0010

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
ADERHOLZ PL 10 248 64	BUBBLE CHAMBER	5.0 P/C	DSIG/DT VS -T PI+ ,PI+
* COFFIN PR 159 1169 67	SPARK CHAMBERS	5.0 P/C	DSIG/DT VS -T PI+ ,PI+
+ SIDWELL PR 3 1523 71	SPARK CHAMBERS	NOT GIVEN	DSIG/DT VS -T PI+ ,P
\$ OREAR PR 152 1162 66	COUNTERS	10.0 P/C	DSIG/DT VS -T PI+ ,PI+

DATA AT 4.2500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
5.9540	10.9010	3.5010	.0010	6.5810	16.8010	2.1010	.0010
6.0440	12.5010	3.0010	.0010	6.6710	14.0010	1.9010	.0010
6.1340	11.8010	2.5010	.0010	6.7600	13.7010	2.3010	.0010
6.2230	13.7010	2.3010	.0010	6.8500	7.5010	1.9010	.0010
6.3130	17.0010	2.3010	.0010	6.9400	9.6010	1.8010	.0010
6.4020	12.3010	1.8010	.0010	7.0290	20.5010	2.5010	.0010
6.4920	13.0010	1.9010	.0010	7.0920	26.7010	4.0010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
SIDWELL PR 3 1523 71	SPARK CHAMBERS	NOT GIVEN	DSIG/DT VS -T PI+ ,P

REACTION PI+ P = P PI+

DATA AT 4.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
6.3569	8.211	3.3011	.0010	7.0079	11.0010	1.7610	.0010
6.4359	19.911	3.0010	.0010	7.1039	14.3010	2.0010	.0010
6.5319	6.411	2.0010	.0010	7.1989	13.7010	2.1010	.0010
6.6269	14.511	2.5011	.0010	7.2949	9.2110	2.1010	.0010
6.7219	12.411	2.0011	.0010	7.3899	3.3010	1.5010	.0010
6.8179	10.011	1.7011	.0010	7.4849	14.2010	2.1010	.0010
6.9129	12.711	1.8011	.0010	7.5539	28.8010	4.6010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
SIDWELL PR 3 1523 71	SPARK CHAMBERS	NOT GIVEN	DSIG/DT VS -T PI+ ,P

DATA AT 4.7500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
6.8288	5.111	2.0010	.0010	7.5368	12.7010	1.7010	.0010
6.9298	8.211	2.3011	.0010	7.6378	9.2010	1.6010	.0010
7.0308	6.411	1.6011	.0010	7.7388	5.4010	1.7010	.0010
7.1318	6.711	1.4011	.0010	7.8408	7.5010	1.6010	.0010
7.2338	11.311	1.7011	.0010	7.9418	11.6010	2.0010	.0010
7.3348	8.411	1.6011	.0010	8.0498	24.5010	4.5010	.0010
7.4358	12.911	1.7011	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
SIDWELL PR 3 1523 71	SPARK CHAMBERS	NOT GIVEN	DSIG/DT VS -T PI+ ,P

DATA AT 5.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0750	24500.0010	500.0010	.0010	2.9500	.3280	.0740	.0010
.1250	2900.0010	300.0010	.0010	3.0000	.4010	.1310	.0010
.1750	11700.0010	200.0010	.0010	3.0450	.3120	.0760	.0010
.2250	8900.0010	200.0010	.0010	3.0500	.4510	.1910	.0010
.2750	6300.0010	200.0010	.0010	3.1000	.1504	.0223	.0010
.3250	4010.0010	120.0010	.0010	3.1450	.5550	.1140	.0010
.3750	2097.0010	110.0010	.0010	3.1500	.7010	.2310	.0010
.4250	2140.0010	90.0010	.0010	3.1900	.5010	.1910	.0010
.4750	1630.0010	80.0010	.0010	3.2400	.5620	.1370	.0010
.5250	1110.0010	70.0010	.0010	3.2500	.9010	.2710	.0010
.5750	820.0010	60.0010	.0010	3.3000	.2023	.0251	.0010
.6250	620.0010	50.0010	.0010	3.3350	.5970	.1890	.0010
.6750	490.0010	50.0010	.0010	3.3950	.8210	.4710	.0010
.7250	300.0010	40.0010	.0010	3.4000	.4810	.1510	.0010
.7750	310.0010	40.0010	.0010	3.4350	.7170	.5110	.0010
.8250	250.0010	30.0010	.0010	3.5000	.1748	.0206	.0010
.8750	210.0010	30.0010	.0010	3.6000	.7010	.2210	.0010
.9250	210.0010	30.0010	.0010	3.7000	.1866	.0196	.0010
.9750	147.0010	28.0010	.0010	3.9000	.1813	.0179	.0010
1.0500	138.0010	20.0010	.0010	4.1000	.1937	.0233	.0010
1.1500	112.0010	2.0010	.0010	4.3000	.2187	.0224	.0010
1.2500	90.0010	2.0010	.0010	4.5000	.2910	.0610	.0010
* 1.3500	77.3000	23.6530	.0010	4.5000	.1344	.0177	.0010
* 1.3500	77.0010	1.9011	.0010	4.7000	.0686	.0147	.0010
* 1.4500	35.9100	2.7963	.0010	4.9000	.3710	.1010	.0010
* 1.4500	64.6010	1.7011	.0010	4.9000	.0776	.0160	.0010
* 1.5500	27.8760	1.3300	.0010	5.1000	.2710	.0810	.0010
* 1.5500	49.5010	1.6010	.0010	5.1000	.0855	.0171	.0010
* 1.6500	19.3010	.8345	.0010	5.3000	.3910	.1010	.0010
* 1.6500	38.0010	1.4010	.0010	5.3000	.1565	.0283	.0010
* 1.7500	13.9770	.6165	.0010	5.5000	.5510	.1110	.0010
* 1.7500	30.0010	1.3010	.0010	5.5000	.1506	.0269	.0010
* 1.8500	10.2010	.4919	.0010	5.7000	.5910	.1210	.0010
* 1.8500	22.0010	1.1010	.0010	5.7000	.1514	.0307	.0010
* 1.9500	6.5543	.3495	.0010	5.9000	.7310	.1210	.0010
* 1.9500	15.3010	.9010	.0010	5.9000	.3070	.0491	.0010
* 2.0500	9.2010	.7010	.0010	6.1000	1.4710	.1710	.0010
* 2.1000	3.8098	.1613	.0010	6.1000	.3886	.0526	.0010
* 2.1500	6.4510	.6010	.0010	6.3000	1.6910	.1810	.0010
* 2.1750	5.9010	.5810	.0010	6.3000	.5196	.0544	.0010
* 2.2250	4.0210	.6110	.0010	6.5000	1.9610	.1910	.0010
* 2.2500	4.2010	.5010	.0010	6.5000	.7122	.0605	.0010
* 2.2750	3.3410	.2910	.0010	6.7000	2.2810	.2010	.0010
* 2.3000	1.8054	.0953	.0010	6.7000	.9596	.0801	.0010
* 2.3500	3.1210	.4510	.0010	6.8500	2.8210	.3010	.0010
* 2.3700	1.9610	.1810	.0010	6.9000	1.3288	.1793	.0010
* 2.4200	1.7710	.2710	.0010	6.9500	3.7410	.3410	.0010
* 2.4500	1.9510	.3510	.0010	7.0000	3.9710	.3510	.0010
* 2.4650	1.2310	.1410	.0010	7.1000	2.2986	1.0355	.0010
* 2.5000	.5000	.0537	.0010	7.1500	5.1810	.5010	.0010
* 2.5500	.8010	.2510	.0010	7.3288	1.3010	.9010	.0010
* 2.5650	.9310	.1210	.0010	7.4358	5.0010	1.3010	.0010
* 2.6100	.5100	.1410	.0010	7.5428	5.9010	1.3010	.0010
* 2.6500	.3410	.1510	.0010	7.6498	7.2010	1.3010	.0010
* 2.6600	.3410	.0760	.0010	7.7568	6.5010	1.2010	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 5.000 GEV/C

	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
			+	-			+	-
*	2.7000	.2186	.0293	.0010	\$ 7.8638	8.8010	1.3010	.0010
	2.7500	.0710	.0710	.0010	\$ 7.9708	9.1010	1.5010	.0010
+	2.7550	.2710	.0660	.0010	\$ 8.0778	9.1010	1.6010	.0010
+	2.8050	.2510	.1110	.0010	\$ 8.1848	4.3010	1.5010	.0010
	2.8550	.0710	.0710	.0010	\$ 8.2918	3.1010	1.3010	.0010
+	2.8550	.1630	.0520	.0010	\$ 8.3988	8.7010	1.8010	.0010
*	2.9000	.0895	.0178	.0010	\$ 8.4728	22.5010	4.6010	.0010
	2.9500	.3710	.1710	.0010				

	REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
RUST	PRL 24 1361 70	SPARK CHAMBERS	10.0 P/C	VS -T PI+ ,PI+
* CHABAUD	PL 388 441 72	SPARK CHAMBERS	20.0 P/C	VS -T PI+ ,PI+
+ AKERLOF	PRL 27 218 71	COUNTERS	10.0 P/C	VS -T PI+ ,PI+
\$ SIDWELL	PR 3 1523 71	SPARK CHAMBERS	NOT GIVEN	VS -T PI+ ,P

DATA AT 5.1200 GEV/C FOLLOW

	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
			+	-			+	-
	7.5199	2.7010	1.9010	.0010	8.1789	5.9010	1.4010	.0010
	7.6299	5.3010	2.0010	.0010	8.2879	9.4010	2.0010	.0010
	7.7399	4.3010	1.6010	.0010	8.3979	4.7010	1.6010	.0010
	7.8489	5.7010	1.6010	.0010	8.5079	4.6010	1.9010	.0010
	7.9589	8.6010	1.9010	.0010	8.6179	8.6010	2.4010	.0010
	8.0689	7.4010	1.7010	.0010	8.6939	10.0010	3.9010	.0010

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
SIDWELL	PR 3 1523 71	SPARK CHAMBERS	NOT GIVEN	VS -T PI+ ,P

DATA AT 5.2000 GEV/C FOLLOW

	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
			+	-			+	-
	8.0369	5.5010	2.1010	.0010	8.6119	5.1010	.7010	.0010
	8.0869	6.6010	1.7010	.0010	8.6319	4.5010	.6010	.0010
	8.1369	8.4010	1.4010	.0010	8.6519	3.2010	.5010	.0010
	8.1869	10.4010	1.3010	.0010	8.6719	3.5010	.5010	.0010
	8.2369	11.5010	1.2010	.0010	8.6919	2.7010	.5010	.0010
	8.2869	11.2010	1.0010	.0010	8.7119	2.2010	.4010	.0010
	8.3369	10.1010	.9010	.0010	8.7319	2.2010	.4010	.0010
	8.3869	9.3010	.7010	.0010	8.7519	2.9010	.5010	.0010
	8.4369	10.1010	.7010	.0010	8.7719	3.2010	.5010	.0010
	8.4819	7.8010	.7010	.0010	8.7919	5.0010	.7010	.0010
	8.5119	8.4010	.9010	.0010	8.8119	7.1010	.9010	.0010
	8.5319	6.6010	.8010	.0010	8.8319	9.4010	1.1010	.0010
	8.5519	6.2010	.8010	.0010	8.8519	14.5010	1.5010	.0010
	8.5719	6.7010	.8010	.0010	8.8719	18.4010	2.1010	.0010
	8.5919	6.0010	.7010	.0010				

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BAKER	NP 825 385 71	SPARK CHAMBERS	10.0 P/C	VS -T PI+ ,P

DATA AT 5.2500 GEV/C FOLLOW

	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
			+	-			+	-
	7.7837	2.9010	.9010	.0010	8.5167	7.0010	1.5010	.0010
	7.9527	3.5010	1.1010	.0010	8.6297	6.0010	1.4010	.0010
	8.0657	4.2010	1.1010	.0010	8.7427	4.2010	1.3010	.0010
	8.1787	4.7010	1.0010	.0010	8.8557	6.7010	1.7010	.0010
	8.2917	4.3010	1.1010	.0010	8.9337	19.0010	3.6010	.0010
	8.4037	8.6010	1.6010	.0010				

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
SIDWELL	PR 3 1523 71	SPARK CHAMBERS	NOT GIVEN	VS -T PI+ ,P

DATA AT 5.9100 GEV/C FOLLOW

	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
			+	-			+	-
	9.3278	2.2410	.3310	.0010	10.0558	.5530	.3920	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 5.910 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
9.4278	3.5310	.3110	.0010	10.0908	1.1710	.3310	.0010
9.5228	3.9210	.3910	.0010	10.0978	2.6810	.6110	.0010
9.6118	5.6110	.4410	.0010	10.1288	4.9810	.7910	.0010
9.6958	5.4810	.4310	.0010	10.1568	8.5110	1.1010	.0010
9.7748	5.3410	.3710	.0010	10.1808	13.5010	1.3010	.0010
9.8468	4.2110	.3310	.0010	10.2198	22.1010	1.7010	.0010
9.9138	2.5610	.2510	.0010	10.2348	30.6010	1.5010	.0010
9.9758	1.8710	.2410	.0010	10.2468	36.2110	1.8010	.0010
10.0308	1.2810	.2110	.0010	10.2528	37.6010	1.5010	.0010

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 OWEN PR 181 1794 69 COUNTERS 5.0 P/C DSIG/DT VS -T PI+ ,P

DATA AT 6.8000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0340	30600.0010	1800.0010	.0010	.3950	2070.0010	120.0010	.0010
.0470	28800.0010	1700.0010	.0010	.4760	1260.0010	83.0010	.0010
.0640	25600.0010	1500.0010	.0010	.5640	685.0010	54.0010	.0010
.0830	23400.0010	1400.0010	.0010	.6560	373.0010	35.0010	.0010
.1020	18100.0010	1200.0010	.0010	.7550	240.0010	27.0010	.0010
.2480	5930.0010	270.0010	.0010	.8590	139.0010	19.0010	.0010
.3180	3720.0010	190.0010	.0010	.9650	108.0010	18.0010	.0010

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 FOLEY PRL 11 425 63 COUNTERS 6.0 P/C DSIG/DT VS -T PI+ ,PI+

DATA AT 7.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
11.0888	1.3010	.3010	.0010	11.9388	2.7010	.4010	.0010
11.1888	1.7010	.3010	.0010	11.9788	2.0010	.3010	.0010
11.2888	1.8010	.3010	.0010	12.0188	.9010	.2010	.0010
11.3888	3.0010	.3010	.0010	12.0588	.8010	.2010	.0010
11.4888	2.7010	.3010	.0010	12.0988	.7010	.2010	.0010
11.5888	3.6010	.3010	.0010	12.1388	.8010	.2010	.0010
11.6888	4.4010	.3010	.0010	12.1788	1.5010	.3010	.0010
11.7888	4.0010	.3010	.0010	12.2088	4.4010	.8010	.0010
11.8588	3.8010	.5010	.0010	12.2288	6.4010	1.2010	.0010
11.8988	2.5010	.4010	.0010	12.2488	7.8010	2.3010	.0010

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 BAKER NP 025 385 71 SPARK CHAMBERS 10.0 P/C DSIG/DT VS -T PI+ ,P

DATA AT 7.7600 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0022	95850.0010	5640.0010	.0010	.0106	35630.0010	1950.0010	.0010
.0027	80490.0010	4970.0010	.0010	.0130	35150.0010	1830.0010	.0010
.0032	72540.0010	4790.0010	.0010	.0156	33760.0010	1710.0010	.0010
.0037	63650.0010	4650.0010	.0010	.0184	32950.0010	1660.0010	.0010
.0037	65710.0010	5060.0010	.0010	.0215	32080.0010	1580.0010	.0010
.0043	600950.0010	5100.0010	.0010	.0248	30070.0010	1540.0010	.0010
.0050	43930.0010	5920.0010	.0010	.0284	27490.0010	1430.0010	.0010
.0050	49260.0010	3040.0010	.0010	.0322	28280.0010	1400.0010	.0010
.0066	42660.0010	2320.0010	.0010	.0362	26130.0010	1310.0010	.0010
.0085	41390.0010	2110.0010	.0010	.0404	26400.0010	1320.0010	.0010

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 FOLEY PR 181 1775 69 COUNTERS NOT GIVEN DSIG/DT VS -T PI+ ,PI+

DATA AT 8.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0750	20299.9854	300.0008	.0010	1.3000	22.0010	6.0010	.0010
.1250	13199.9371	300.0008	.0010	1.5000	20.0010	6.0010	.0010
.1750	9199.9971	300.0008	.0010	1.5000	14.8010	1.5010	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 8.000 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2250	6500.0010	200.0010	.0010	1.7000	6.7010	3.3610	.0010
.2750	4500.0010	200.0010	.0010	* 1.7400	7.1810	.7910	.0010
.3250	3120.0008	140.0010	.0010	1.9000	5.0010	2.9010	.0010
.3750	2200.0008	120.0009	.0010	* 2.0000	3.3310	.5710	.0010
.4250	1570.0005	100.0010	.0010	* 2.2500	.8910	.1910	.0010
.4750	1370.0008	100.0010	.0010	* 2.5000	.2080	.0630	.0010
.5250	920.0008	80.0010	.0010	* 2.7200	.1380	.0710	.0010
.5750	500.0010	60.0010	.0010	* 3.0000	.0440	.0210	.0010
.6500	362.0008	35.0010	.0010	* 3.5000	.1320	.0670	.0010
.7500	235.0010	29.0010	.0010	* 14.0530	2.8010	.9610	.0010
.8500	144.0010	22.0010	.0010	* 14.1000	7.4010	1.9010	.0010
.9500	104.0010	19.0010	.0010	* 14.1330	11.7010	2.7010	.0010
1.1000	46.0010	9.0010	.0010	* 14.1540	16.9010	5.8010	.0010
* 1.2000	33.5010	3.0010	.0010				

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES		
ABC COLLABORATION	PRIV.	LOMMUNIC.	73	BUBBLE CHAMBER	NOT GIVEN	DSIG/DTPR	VS TPR	PI+ ,PI+
* OREAR	PR	152 1162	66	COUNTERS	10.0 P/C	DSIG/DT	VS -T	PI+ ,PI+

DATA AT 8.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1300	12550.0010	490.0010	.0010	.4600	935.0010	92.0010	.0010
.1500	10220.0010	440.0010	.0010	.5000	788.0010	85.0010	.0010
.1700	9080.0010	410.0010	.0010	.5400	745.0010	83.0010	.0010
.1900	8240.0010	390.0010	.0010	.5800	481.0010	67.0010	.0010
.2200	6610.0010	250.0010	.0010	.6500	390.0010	40.0010	.0010
.2600	5040.0010	210.0010	.0010	.7500	185.0010	28.0010	.0010
.3000	3820.0010	190.0010	.0010	.8500	143.0010	25.0010	.0010
.3400	3100.0010	170.0010	.0010	.9500	36.0010	13.0010	.0010
.3800	1990.0010	130.0010	.0010	1.0500	53.0010	16.0010	.0010
.4200	1810.0010	130.0010	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
HARTING	NC	38 60 65		SPARK CHAMBERS	7.0 P/C	DSIG/DT	VS -T	PI+ ,PI+

DATA AT 8.8000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0400	28700.0010	1000.0010	.0010	.3320	2950.0010	150.0010	.0010
.0570	25340.0010	950.0010	.0010	.4130	1570.0010	95.0010	.0010
.0790	20130.0010	780.0010	.0010	.4970	948.0010	68.0010	.0010
.1060	16880.0010	600.0010	.0010	.5890	523.0010	45.0010	.0010
.1380	13110.0010	520.0010	.0010	.6880	319.0010	33.0010	.0010
.1680	10000.0010	480.0010	.0010	.7920	152.0010	21.0010	.0010
.2600	4830.0010	220.0010	.0010	.9040	111.0010	18.0010	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
FOLEY	PRL	11 425 63		COUNTERS	6.0 P/C	DSIG/DT	VS -T	PI+ ,PI+

DATA AT 9.8500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
15.2981	.0106	.0089	.0010	17.2371	.5930	.0770	.0010
15.7481	.0384	.0167	.0010	17.3221	.4570	.0640	.0010
16.0691	.0504	.0276	.0010	17.4061	.1920	.1460	.0010
16.3201	.1290	.0340	.0010	17.4121	.1680	.0470	.0010
16.5161	.2220	.0490	.0010	17.4541	.1550	.1450	.0010
16.6601	.3710	.0710	.0010	17.5321	1.1610	.5210	.0010
16.7961	.2990	.0900	.0010	17.5861	3.9610	.8310	.0010
16.9211	.5330	.1070	.0010	17.6051	7.2810	.8010	.0010
17.0361	.6890	.0830	.0010	17.6181	8.3110	.9110	.0010
17.1421	.7210	.0870	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
OWEN	PR	181 1794 69		COUNTERS	5.0 P/C	DSIG/DT	VS -T	PI+ ,P

REACTION PI+ P = P PI+

DATA AT 9.8600 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0012	225700.0010	12000.0010	.0010	.0070	37180.0010	2240.0010	.0010
.0015	167480.0010	8830.0010	.0010	.0087	35770.0010	2070.0010	.0010
.0019	132170.0010	7380.0010	.0010	.0107	34880.0010	2000.0010	.0010
.0022	101890.0010	6200.0010	.0010	.0128	29730.0010	1810.0010	.0010
.0026	81290.0010	5680.0010	.0010	.0152	31880.0010	1840.0010	.0010
.0030	76990.0010	5650.0010	.0010	.0178	34260.0010	1790.0010	.0010
.0030	78750.0010	5500.0010	.0010	.0204	28630.0010	1650.0010	.0010
.0035	61040.0010	5680.0010	.0010	.0233	29270.0010	1570.0010	.0010
.0040	60330.0010	6780.0010	.0010	.0264	29160.0010	1480.0010	.0010
.0041	58750.0010	3330.0010	.0010	.0298	29170.0010	1470.0010	.0010
.0055	44310.0010	2530.0010	.0010	.0333	25610.0010	1360.0010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FOLEY PR 181 1775 69	COUNTERS	NOT GIVEN DSIG/DT	VS -T PI+ ,PI+

DATA AT 10.0200 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0024	92830.0010	2920.0010	.0010	.0142	31880.0010	790.0010	.0010
.0030	72330.0010	2260.0010	.0010	.0178	30020.0010	730.0010	.0010
.0037	60340.0010	1890.0010	.0010	.0216	28950.0010	680.0010	.0010
.0045	53510.0010	1710.0010	.0010	.0260	27980.0010	650.0010	.0010
.0053	40060.0010	1570.0010	.0010	.0307	26900.0010	610.0010	.0010
.0061	40330.0010	1640.0010	.0010	.0359	25060.0010	570.0010	.0010
.0062	44540.0010	4600.0010	.0010	.0414	24170.0010	550.0010	.0010
.0072	37560.0010	1650.0010	.0010	.0472	22950.0010	530.0010	.0010
.0083	39000.0010	1880.0010	.0010	.0536	20900.0010	490.0010	.0010
.0084	36840.0010	1070.0010	.0010	.0604	20310.0010	480.0010	.0010
.0111	34100.0010	870.0010	.0010	.0674	19670.0010	460.0010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FOLEY PR 181 1775 69	COUNTERS	NOT GIVEN DSIG/DT	VS -T PI+ ,PI+

DATA AT 10.8000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0360	27200.0010	2700.0010	.0010	.3410	2360.0010	130.0010	.0010
.0580	23930.0010	790.0010	.0010	.4240	1478.0010	23.0010	.0010
.0840	18750.0010	690.0010	.0010	.5120	804.0010	61.0010	.0010
.1160	14000.0010	520.0010	.0010	.6060	460.0010	43.0010	.0010
.1570	10980.0010	460.0010	.0010	.7070	214.0010	27.0010	.0010
.2030	7230.0010	340.0010	.0010	.8170	105.0010	18.0010	.0010
.2490	4640.0010	270.0010	.0010	.9330	78.0010	17.0010	.0010
.2660	4310.0010	200.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FOLEY PRL 11 425 63	COUNTERS	6.0 P/C DSIG/DT	VS -T PI+ ,PI+

DATA AT 11.9500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0026	77000.0010	4240.0010	.0010	.0203	31220.0010	1200.0010	.0010
.0034	59230.0010	3390.0010	.0010	.0253	26690.0010	1100.0010	.0010
.0043	49700.0010	2860.0010	.0010	.0309	23070.0010	1010.0010	.0010
.0053	42680.0010	2620.0010	.0010	.0371	23680.0010	940.0010	.0010
.0064	38150.0010	2450.0010	.0010	.0438	21770.0010	870.0010	.0010
.0076	38250.0010	2370.0010	.0010	.0510	20480.0010	840.0010	.0010
.0088	39620.0010	2660.0010	.0010	.0589	20260.0010	810.0010	.0010
.0089	36770.0010	2530.0010	.0010	.0673	17880.0010	760.0010	.0010
.0103	34950.0010	2710.0010	.0010	.0762	16900.0010	740.0010	.0010
.0118	35430.0010	3130.0010	.0010	.0858	15900.0010	670.0010	.0010
.0120	32670.0010	1660.0010	.0010	.0958	14920.0010	690.0010	.0010
.0158	28890.0010	1300.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FOLEY PR 181 1775 69	COUNTERS	NOT GIVEN DSIG/DT	VS -T PI+ ,PI+

REACTION PI+ P = P PI+

DATA AT 12.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
1.2000	7.4210	1.1110	.0010	2.0000	.5110	.2310	.0010
1.5000	3.4510	.6210	.0010	2.4000	.3010	.1210	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OREAR PR 152 1162 66	COUNTERS	10.0 P/C	DSIG/DT VS -T PI+ ,PI+

DATA AT 12.4000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1300	10600.0010	1470.0010	.0010	.5000	730.0010	160.0010	.0010
.1700	6340.0010	820.0010	.0010	.5400	630.0010	150.0010	.0010
.1900	5850.0010	660.0010	.0010	.5800	440.0010	130.0010	.0010
.2200	5020.0010	430.0010	.0010	.6500	387.0010	76.0010	.0010
.2600	3730.0010	370.0010	.0010	.7500	207.0010	55.0010	.0010
.3000	2800.0010	320.0010	.0010	.8500	90.0010	36.0010	.0010
.3400	2530.0010	300.0010	.0010	.9500	89.0010	36.0010	.0010
.3800	1860.0010	270.0010	.0010	1.1000	15.0010	11.0010	.0010
.4200	1110.0010	200.0010	.0010	1.3000	8.1010	8.1010	.0010
.4600	1000.0010	190.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
HARTING NC 38 60 65	SPARK CHAMBERS	7.0 P/C	DSIG/DT VS -T PI+ ,PI+

DATA AT 12.8000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0490	23800.0010	1200.0010	.0010	.3530	2220.0010	120.0010	.0010
.0830	19410.0010	970.0010	.0010	.4400	1205.0010	75.0010	.0010
.1200	13800.0010	620.0010	.0010	.5300	666.0010	49.0010	.0010
.1660	8330.0010	550.0010	.0010	.6280	321.0010	30.0010	.0010
.2240	6160.0010	460.0010	.0010	.7350	198.0010	22.0010	.0010
.2760	3720.0010	170.0010	.0010	.8480	112.0010	16.0010	.0010
.2900	3950.0010	330.0010	.0010	.9690	62.0010	13.0010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FOLEY PRL 11 425 63	COUNTERS	6.0 P/C	DSIG/DT VS -T PI+ ,PI+

DATA AT 13.7300 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
22.0424	.0015	.0026	.0010	24.3484	.1500	.0310	.0010
22.6374	.0031	.0041	.0010	24.4684	.1830	.0330	.0010
23.0564	.0149	.0082	.0010	24.5954	.1230	.0270	.0010
23.3824	.0125	.0110	.0010	24.7934	.5050	.2320	.0010
23.6774	.0364	.0126	.0010	24.8584	1.9910	.5310	.0010
23.9424	.1210	.0250	.0010	24.8784	3.8210	.6410	.0010
24.1764	.1470	.0270	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OWEN PR 181 1794 69	COUNTERS	5.0 P/C	DSIG/DT VS -T PI+ ,P

DATA AT 14.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0011	27060.0010	18300.0010	.0010	.0110	33210.0010	1820.0010	.0010
.0015	149500.0010	10100.0010	.0010	.0141	29730.0010	1690.0010	.0010
.0020	110000.0010	6940.0010	.0010	.0176	26160.0010	1520.0010	.0010
.0025	83740.0010	5440.0010	.0010	.0216	27580.0010	1440.0010	.0010
.0031	70980.0010	4560.0010	.0010	.0259	26020.0010	1390.0010	.0010
.0045	50950.0010	3830.0010	.0010	.0307	24300.0010	1300.0010	.0010
.0053	36700.0010	3460.0010	.0010	.0357	32250.0010	1260.0010	.0010
.0061	42350.0010	4030.0010	.0010	.0412	28510.0010	1160.0010	.0010
.0061	43030.0010	3810.0010	.0010	.0472	22030.0010	1160.0010	.0010
.0070	39640.0010	3900.0010	.0010	.0534	19410.0010	1080.0010	.0010
.0078	55790.0010	3950.0010	.0010	.0602	18410.0010	1040.0010	.0010

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REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 14.300 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0080	34630.0010	4620.0010	.0010	.0671	17130.0010	990.0010	.0010
.0084	34870.0010	2280.0010	.0010				
	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
FOLEY	PR	181 1775 69	COUNTERS	NOT GIVEN	DSIG/DT	VS -T	PI+,PI+

DATA AT 14.8000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0660	21600.0010	1100.0010	.0010	.3760	1740.0010	170.0010	.0010
.1100	14700.0010	690.0010	.0010	.4610	1002.0010	63.0010	.0010
.1600	8740.0010	490.0010	.0010	.5560	498.0010	39.0010	.0010
.2210	5230.0010	360.0010	.0010	.6600	266.0010	26.0010	.0010
.2980	3400.0010	270.0010	.0010	.7710	147.0010	19.0010	.0010
.3700	1960.0010	110.0010	.0010	.8920	71.0010	12.0010	.0010
	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
FOLEY	PRL	11 425 63	COUNTERS	6.0 P/C	DSIG/DT	VS -T	PI+,PI+

DATA AT 16.0200 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0024	87110.0010	4980.0010	.0010	.0284	24440.0010	800.0010	.0010
.0035	57960.0010	3020.0010	.0010	.0364	22260.0010	710.0010	.0010
.0047	46070.0010	2250.0010	.0010	.0454	21680.0010	670.0010	.0010
.0061	37550.0010	1880.0010	.0010	.0556	18980.0010	610.0010	.0010
.0077	33400.0010	1680.0010	.0010	.0666	17290.0010	560.0010	.0010
.0095	31810.0010	1540.0010	.0010	.0787	15760.0010	530.0010	.0010
.0115	32160.0010	1520.0010	.0010	.0918	14390.0010	500.0010	.0010
.0137	32060.0010	1480.0010	.0010	.1060	11970.0010	440.0010	.0010
.0158	29620.0010	1570.0010	.0010	.1209	11550.0010	440.0010	.0010
.0161	30720.0010	1570.0010	.0010	.1368	10130.0010	400.0010	.0010
.0185	27280.0010	1580.0010	.0010	.1540	8920.0010	370.0010	.0010
.0212	26820.0010	1810.0010	.0010	.1719	8080.0010	350.0010	.0010
.0216	26370.0010	1610.0010	.0010				
	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
FOLEY	PR	181 1775 69	COUNTERS	NOT GIVEN	DSIG/DT	VS -T	PI+,PI+

DATA AT 16.7000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0840	15710.0010	840.0010	.0010	.4840	931.0010	73.0010	.0010
.1410	9750.0010	390.0010	.0010	.4920	641.0010	73.0010	.0010
.2040	6030.0010	290.0010	.0010	.5840	454.0010	46.0010	.0010
.2820	3040.0010	180.0010	.0010	.6940	254.0010	38.0010	.0010
.3040	2850.0010	160.0010	.0010	.8120	114.0010	23.0010	.0010
.3780	1570.0010	130.0010	.0010	.9380	102.0010	19.0010	.0010
.3890	1670.0010	110.0010	.0010				
	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
FOLEY	PRL	11 425 63	COUNTERS	6.0 P/C	DSIG/DT	VS -T	PI+,PI+

DATA AT 17.9600 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0012	217400.0010	17300.0010	.0010	.0139	28950.0010	1670.0010	.0010
.0018	119850.0010	8320.0010	.0010	.0182	26480.0010	1300.0010	.0010
.0025	77930.0010	5310.0010	.0010	.0233	22900.0010	1130.0010	.0010
.0033	59410.0010	3940.0010	.0010	.0290	27740.0010	1080.0010	.0010
.0042	47090.0010	3330.0010	.0010	.0356	22590.0010	1020.0010	.0010
.0051	43180.0010	2900.0010	.0010	.0428	21210.0010	950.0010	.0010
.0062	39000.0010	2720.0010	.0010	.0506	20490.0010	920.0010	.0010
.0074	35840.0010	2600.0010	.0010	.0588	16410.0010	820.0010	.0010
.0087	31410.0010	2640.0010	.0010	.0677	15620.0010	780.0010	.0010
.0101	26270.0010	2760.0010	.0010	.0775	15310.0010	770.0010	.0010
.0101	31090.0010	2580.0010	.0010	.0879	14030.0010	720.0010	.0010

TURN TO NEXT PAGE

REACTION PI+ P = P PI+

CONTINUATION OF DATA AT 17.960 GEV/C

	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
			+	-			+	-
	.0116	29010.0010	2880.0010	.0010	.0988	13030.0010	740.0010	.0010
	.0132	28530.0010	3610.0010	.0010	.1104	11550.0010	660.0010	.0010
		REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES
FOLEY		PR	181 1775 69	COUNTERS		NOT GIVEN	DSIG/DT	VS -T PI+ ,PI+

DATA AT 20.1900 GEV/C FOLLOW

	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
			+	-			+	-
	.0010	333800.0010	39700.0010	.0010	.0176	27570.0010	1930.0010	.0010
	.0016	144100.0010	15000.0010	.0010	.0223	26380.0010	1540.0010	.0010
	.0023	82900.0010	8240.0010	.0010	.0295	20350.0010	1350.0010	.0010
	.0032	59100.0010	5620.0010	.0010	.0367	21080.0010	1170.0010	.0010
	.0042	53120.0010	4350.0010	.0010	.0450	18700.0010	1170.0010	.0010
	.0052	42040.0010	4170.0010	.0010	.0538	18160.0010	1080.0010	.0010
	.0065	31730.0010	3550.0010	.0010	.0639	16430.0010	1030.0010	.0010
	.0079	38830.0010	3140.0010	.0010	.0743	15050.0010	960.0010	.0010
	.0094	36980.0010	3150.0010	.0010	.0856	13550.0010	920.0010	.0010
	.0110	28120.0010	3310.0010	.0010	.0978	11920.0010	900.0010	.0010
	.0110	28000.0010	3470.0010	.0010	.1110	12180.0010	830.0010	.0010
	.0127	25910.0010	3350.0010	.0010	.1248	9960.0010	760.0010	.0010
	.0146	24240.0010	3570.0010	.0010	.1392	8850.0010	720.0010	.0010
	.0166	28030.0010	3790.0010	.0010				
		REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES
FOLEY		PR	181 1775 69	COUNTERS		NOT GIVEN	DSIG/DT	VS -T PI+ ,PI+

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          PI-                PI-
*****
          I
          I
          I T
          I
          I
*****
          P                P

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DATA AT .4901 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.0948	35980.4997	1213.1502	.3045	10725.3411	441.1464
.1117	32589.5878	1433.7229	.3409	11828.2045	496.2890
.1310	30797.4483	2067.8693	.3719	13951.2166	606.5753
.1531	24786.4496	2564.1579	.3954	17921.5249	744.4333
.1759	15522.7969	3143.1603	.4127	20402.9675	937.4343
.1983	16046.0570	3915.1647	.4257	22691.4091	1130.4354
.2247	16019.5855	716.8617	.4348	25724.2835	1378.5797
.2562	12324.4939	661.7185	.4442	27571.5863	1185.5786
.2744	12352.0646	661.7185			

OGDEN REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES

 PR 137 1115 65 COUNTERS NOT GIVEN DSIG/DOH VS COST PI- ,PI-

DATA AT .5316 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.0031	66084.2984	6827.8989	* .1525	29067.3199	2170.2966
.0157	45844.4582	6096.3384	.1546	28043.1530	2682.3895
.0385	41698.9488	6340.1919	.1644	27067.7391	2682.3895
.0113	45844.4582	7803.3129	.1739	23409.9366	3170.0964
.0222	40723.5348	3413.9499	* .1778	22629.5996	2292.2231
.0276	38284.9999	3413.9499	* .2038	15874.8577	3048.1697
.0330	36578.2254	3657.8034	* .2293	16118.7112	2853.0862
.0381	34139.4904	3657.8034	* .2592	12948.6193	634.0196
.0526	36578.2254	2438.5360	* .2881	9900.4471	560.8636
.0639	32676.3695	2682.3895	* .3151	9071.3452	512.0923
.0737	31944.8090	2682.3895	* .3486	8729.9503	365.7812
* .0930	37602.2042	951.0291	* .3893	9485.8961	414.5515
.0948	31700.9555	1463.1220	* .4236	12875.4597	536.4782
* .1105	33724.9217	1072.9559	* .4494	16582.0329	682.7903
* .1108	29993.9810	1950.8290	* .4684	18654.7876	829.1024
* .1257	28287.0065	1950.8290	* .4826	20873.8544	1072.9559
* .1301	36823.0773	1585.0482	* .4927	25604.5942	1243.6533
* .1407	29750.1275	2194.6825	* .5027	28018.7438	1146.1119

BANNER REFERENCES TECHNIQUES SYSTEMATIC ERROR MEASURED VARIABLES

* OGDEN NC 50A 431 67 SPARK CHAMBERS 2.0 P/C DSIG/DOH VS COST PI- ,PI-

 PR 137 1115 65 COUNTERS NOT GIVEN DSIG/DOH VS COST PI- ,PI-

DATA AT .5552 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.0413	32449.1321	5941.3908	.3162	7540.9970	2056.6375
.0687	34048.7565	5941.3908	.3437	11882.7852	2513.6679
.0962	33363.1928	4570.3044	.3712	7540.9970	2056.6375
.1237	21937.4526	3656.2437	.3987	9140.6032	2285.1527
.1512	32220.6352	4570.3044	.4262	4341.7892	1599.6072
.1787	23080.1170	3656.2437	.4537	12568.3307	2742.1807
.2062	26964.7749	4113.2717	.4812	13482.3914	2742.1807
.2337	11882.7852	2513.6679	.5087	17367.1492	3199.2134
.2612	14624.9672	2970.6982	.5362	21480.4223	3656.2437
.2887	9597.6335	2285.1527			

BRODY REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES

 PR 3 2619 71 BUBBLE CHAMBER NOT GIVEN DSIG/DOH VS COST PI- ,PI-

DATA AT .5728 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.1072	34773.4357	894.4241	.3574	6020.9929	458.1199
.1273	32591.9044	1303.5001	.3946	5562.8784	327.2291
.1498	30803.6626	1701.5858	.4392	7744.3943	392.6743
.1751	25960.9867	1919.7388	.4767	10820.3384	501.7503
.2039	21378.6986	2334.2277	.5046	15641.4992	654.4563
.2330	12347.4029	3032.3143	.5254	20004.5406	850.7936
.2618	14616.1845	2225.1517	.5406	23494.9683	1025.3153
.2952	9293.2740	567.1959	.5516	26112.7931	1287.0978
.3272	8289.7744	479.9351	.5625	25327.4404	1156.2065

REACTION $\pi^- p = p \pi^-$

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR		MEASURED VARIABLES	
OGDEN	PR	137	1115 65	COUNTERS	NOT GIVEN	DSIG/DOO	VS COST π^- , π^-	
DATA AT .5831 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0222	46748.1835	12749.5016	.0010	.3105	6374.7487	2124.9176	.0010	
.0444	46373.4253	6374.7487	.0010	.3401	6374.7487	2124.9176	.0010	
.0739	44623.2554	6374.7487	.0010	.3696	6374.7487	2124.9176	.0010	
.1035	59497.6734	8499.6664	.0010	.3992	6374.7487	2124.9176	.0010	
.1331	50998.1134	7437.2076	.0010	.4288	2124.9176	2124.9176	.0010	
.1626	31873.7652	6374.7487	.0010	.4583	2124.9176	2124.9176	.0010	
.1922	31873.7652	6374.7487	.0010	.4879	9562.1252	3187.3768	.0010	
.2218	27623.9092	6374.7487	.0010	.5175	10624.5891	3187.3768	.0010	
.2513	31873.7652	6374.7487	.0010	.5470	12749.5016	3187.3768	.0010	
.2809	13811.9604	3187.3768	.0010	.5766	11687.0428	3187.3768	.0010	

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR		MEASURED VARIABLES	
CRITTENDEN	PRL	2	121 59	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOO	VS COST π^- , π^-	
DATA AT .6082 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0472	53933.5813	8789.1737	.0010	.3617	2197.2952	1198.5251	.0010	
.0786	38352.7521	7390.8956	.0010	.3932	4194.8353	1797.7871	.0010	
.1101	31161.6135	5193.6014	.0010	.4246	4194.8353	1797.7871	.0010	
.1416	38952.301	5992.6175	.0010	.4561	6392.1255	2197.2952	.0010	
.1730	29763.3454	4993.8514	.0010	.4876	9987.7018	2796.5572	.0010	
.2045	18377.3665	3795.3273	.0010	.5190	7191.1416	2197.2952	.0010	
.2359	19176.3825	3995.0813	.0010	.5505	12784.2540	3196.0653	.0010	
.2674	16379.8263	3595.5713	.0010	.5819	17977.8584	3795.3273	.0010	
.2988	11985.2380	2996.3112	.0010	.6134	19575.8996	3995.0813	.0010	
.3303	6392.1255	2197.2952	.0010					

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR		MEASURED VARIABLES	
BRODY	PR	3	2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOO	VS COST π^- , π^-	
DATA AT .6139 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0274	53198.5175	3940.6318	.0010	.2143	22067.5338	1970.3164	.0010	
.0364	48469.7604	3152.5057	.0010	.2303	19702.1552	2167.3480	.0010	
.0462	47287.5712	2561.4111	.0010	* .2309	18540.6644	2324.9726	.0010	
.0676	45120.2242	2364.3795	.0010	* .2637	12215.9519	2502.3010	.0010	
.0839	39486.3095	2758.4426	.0010	* .2956	9733.3545	3251.0205	.0010	
.0998	40588.4987	2758.4426	.0010	* .3326	9812.1671	591.0952	.0010	
* .1005	36766.4675	1123.0804	.0010	* .3680	5674.5047	453.1732	.0010	
* .1221	37022.2182	906.3457	.0010	* .4012	5024.3949	394.0637	.0010	
.1231	34283.4894	3349.5372	.0010	* .4420	4630.2413	295.5483	.0010	
.1390	33298.3317	3546.5688	.0010	* .4905	6324.7088	354.6574	.0010	
* .1451	30697.9057	1004.8615	.0010	* .5310	11605.1541	512.2826	.0010	
.1531	25023.0069	2955.4741	.0010	* .5613	15388.1597	669.9079	.0010	
* .1703	28234.6114	1753.5813	.0010	* .5836	19880.4789	847.2362	.0010	
.1818	23052.6915	1773.2849	.0010	* .5998	21693.1691	1123.0804	.0010	
.1984	27190.3539	1773.2849	.0010	* .6116	25456.4716	1261.0017	.0010	
* .1990	25338.2430	1911.2058	.0010	* .6231	29810.8637	1142.7836	.0010	

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR		MEASURED VARIABLES	
BANNER * OGDEN	NC PR	50A 137	431 1115 65	SPARK CHAMBERS COUNTERS	2.0 P/C NOT GIVEN	DSIG/DOO DSIG/DOO	VS COST π^- , π^- VS COST π^- , π^-	
DATA AT .6405 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0255	71683.5926	8816.8943	.0010	.3562	7409.1544	2000.4734	.0010	
.0509	63663.1708	5797.6628	.0010	.3901	7409.1544	2000.4734	.0010	
.0848	57254.2536	5612.4338	.0010	.4240	3204.4615	1407.7409	.0010	
.1187	40046.4861	4612.1995	.0010	.4749	2407.9771	796.4854	.0010	
.1527	32026.0642	4204.6977	.0010	.5258	6408.9182	1796.7198	.0010	
.1866	31025.8280	4000.9459	.0010	.5597	10206.1113	2407.9771	.0010	
.2205	19226.7453	3204.4615	.0010	.5936	15411.0442	2796.9578	.0010	
.2544	20412.2160	3204.4615	.0010	.6276	27228.6405	3797.1940	.0010	
.2883	16022.2996	3000.7078	.0010	.6615	28821.6186	4000.9459	.0010	
.3223	7409.1544	2000.4734	.0010					

REACTION PI- P = P PI-

REFERENCE	TECHNIQUE			SYSTEMATIC ERROR		MEASURED VARIABLES		
GRARD	NC	22	193	61	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT .6579 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1597	35140.4851	1015.7251	.0010	.5095	3955.9793	374.2149	.0010
.1953	26836.5011	1193.9222	.0010	.5469	6878.4113	374.2149	.0010
.2246	23058.7190	1514.6773	.0010	.5906	11083.8669	516.7727	.0010
.2613	18425.5857	1479.0373	.0010	.6234	15806.0345	677.1503	.0010
.2980	13489.5300	1960.1781	.0010	.6474	18621.5382	855.3475	.0010
.3745	6878.4113	516.7727	.0010	.6647	24929.7816	1158.2829	.0010
.4136	3118.4521	409.8544	.0010	.6788	26551.3899	1389.9386	.0010
.4499	2833.3371	338.5755	.0010				

REFERENCE	TECHNIQUE			SYSTEMATIC ERROR		MEASURED VARIABLES		
HELLAND	PR	134	1079	64	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT .6593 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0530	58491.8804	6222.5382	.0010	.4064	4800.2432	1244.5091	.0010
.0884	52624.8992	6044.7513	.0010	.4418	1777.8598	711.1485	.0010
.1237	46423.3674	4622.4563	.0010	.4771	2489.0173	888.9354	.0010
.1590	33423.9164	3733.5254	.0010	.5125	3377.9517	1066.7223	.0010
.1944	29157.3366	3555.7386	.0010	.5478	5511.3907	1422.2960	.0010
.2297	25067.9473	3200.1630	.0010	.5831	8000.4070	1600.0829	.0010
.2651	16178.6034	2489.0173	.0010	.6185	11378.3577	1955.6567	.0010
.3004	13689.5871	2311.2304	.0010	.6538	20623.2753	2844.5911	.0010
.3358	9244.9151	1777.8698	.0010	.6892	20623.2753	2844.5911	.0010
.3711	4444.6730	1244.5091	.0010				

REFERENCE	TECHNIQUE			SYSTEMATIC ERROR		MEASURED VARIABLES		
BRUDY	PR	3	2619	71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT .6753 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	79814.9122	4119.4803	.0010	.4320	2763.4840	394.7841	.0010
* .0996	50652.4149	1287.3379	.0010	* .4572	2952.2945	480.6069	.0010
* .1204	46378.4635	1218.6798	.0010	* .4697	2282.8782	377.6196	.0010
* .1387	45142.6282	2403.0306	.0010	* .5154	3261.2551	274.6330	.0010
* .1464	41572.4087	978.3770	.0010	* .5312	3947.8353	394.7841	.0010
* .1677	37075.3146	1373.1608	.0010	* .5696	6968.7827	377.6196	.0010
* .1735	35376.2252	1081.3635	.0010	* .6110	12530.0838	738.0744	.0010
* .2032	28046.7850	1407.4889	.0010	* .6146	12427.0927	532.1001	.0010
* .2281	29866.2258	2746.3205	.0010	* .6483	17696.5306	686.5805	.0010
* .2365	24356.4139	1630.6274	.0010	* .6542	19395.8826	858.2259	.0010
* .2742	17404.7969	2128.3976	.0010	* .6728	20923.5188	961.2125	.0010
* .3046	19910.8175	3432.9004	.0010	* .6867	24201.9418	1029.8708	.0010
* .3119	9732.2667	3003.7869	.0010	* .6908	23927.2930	1115.6930	.0010
* .3489	7088.9342	3141.1031	.0010	* .7036	31445.3554	1441.8184	.0010
* .3562	9903.9158	686.5809	.0010	* .7124	26261.6814	2574.6756	.0010
* .3917	3244.8899	532.1001	.0010	* .7164	29110.9711	1287.3379	.0010
* .4052	5183.6791	480.6069	.0010				

REFERENCES	TECHNIQUES			SYSTEMATIC ERROR		MEASURED VARIABLES		
WOOD * OGDEN	PRL PR	6 137	481 1115	61 65	COUNTERS COUNTERS	NOT GIVEN NOT GIVEN	DSIG/DOH DSIG/DOH	VS COST PI- ,PI- VS COST PI- ,PI-

DATA AT .6830 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0372	81569.3601	4053.1391	.0010	.4093	3377.6166	675.5239	.0010
.0744	63668.4493	3715.3777	.0010	.4465	3377.6166	675.5239	.0010
.1116	52353.3359	3039.8543	.0010	.4837	3546.4972	675.5239	.0010
.1488	44415.6342	2870.9737	.0010	.5209	3208.7358	675.5239	.0010
.1860	37153.7724	2702.9929	.0010	.5581	6079.7057	1182.1662	.0010
.2232	23812.1894	2533.2125	.0010	.5953	10639.4872	1688.8081	.0010
.2604	19252.3996	2364.3318	.0010	.6325	13679.3415	1857.6889	.0010
.2976	16043.6727	2026.5696	.0010	.6697	25838.7547	2364.3318	.0010
.3349	12328.2952	2026.5696	.0010	.7069	32931.7524	2026.5696	.0010
.3721	8781.7984	1688.8081	.0010	.7348	26007.6398	3377.6166	.0010

REACTION $\pi^+ p \rightarrow p \pi^+$

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
BURNSTEIN	PR	137	1044	65	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI-	,PI-
DATA AT .6993 GEV/C FOLLOW									
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR			
		+	-			+	-		
.0577	83269.1039	6204.3670	.0010	.4426	3265.4585	816.3654	.0010		
.0962	63023.3228	5388.0026	.0010	.4810	1142.9111	489.8196	.0010		
.1347	49471.6741	3755.2771	.0010	.5195	1306.1840	489.8196	.0010		
.1732	43757.1202	3428.7314	.0010	.5580	3102.1856	816.3654	.0010		
.2117	30532.0255	2775.6399	.0010	.5965	6041.0941	1142.9111	.0010		
.2501	19756.0026	2122.5484	.0010	.6350	8326.9144	1959.2739	.0010		
.2886	15674.1938	1796.0026	.0010	.6735	14368.0108	2612.3670	.0010		
.3271	13061.8278	1632.7298	.0010	.7119	18613.0974	2938.9111	.0010		
.3656	6694.1856	1142.9111	.0010	.7504	24327.6562	3428.7314	.0010		
.4041	4408.3554	979.6383	.0010						

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
BRODY	PR	3	2619	71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI-	,PI-
DATA AT .7369 GEV/C FOLLOW									
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR			
		+	-			+	-		
.1512	45839.6366	1286.2759	.0010	.5061	1527.4522	418.0402	.0010		
.1825	42012.9673	1238.0403	.0010	.5709	3424.7089	450.1971	.0010		
.2231	30259.6259	1495.2958	.0010	.6116	6897.6490	466.2755	.0010		
.2560	21641.5767	2170.5904	.0010	.6589	11142.3578	594.9030	.0010		
.2974	14711.7720	2427.8450	.0010	.6940	14679.6151	739.6090	.0010		
.3380	11978.4368	2797.6492	.0010	.7198	17798.8251	900.3935	.0010		
.4232	4501.9610	498.4324	.0010	.7386	22541.9656	1077.2562	.0010		
.4662	916.4719	434.1186	.0010	.7534	24600.0101	1479.2167	.0010		

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
HELLAND	PR	134	1079	64	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI-	,PI-
DATA AT .7263 GEV/C FOLLOW									
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR			
		+	-			+	-		
.0609	92844.0854	10831.8071	.0010	.4580	2584.1613	201.1632	.0010		
.1015	69633.0643	9284.4057	.0010	.4670	4487.4614	2321.1026	.0010		
* .1145	58460.8224	1361.7139	.0010	* .4873	1253.3957	355.9030	.0010		
* .1385	50894.0257	1268.8694	.0010	* .5153	1918.7787	201.1632	.0010		
.1421	46422.0432	7737.0080	.0010	.5279	1237.9217	928.4415	.0010		
+ .1592	41625.0988	773.7017	.0010	* .5287	1593.8241	371.3770	.0010		
* .1681	46344.6694	1067.7070	.0010	* .5786	2862.6927	340.4290	.0010		
.1827	44874.6342	7737.0080	.0010	.5888	2475.8425	1856.8818	.0010		
+ .1921	35435.4932	541.5915	.0010	+ .5957	3930.4005	263.0592	.0010		
* .1986	38097.0199	1160.5517	.0010	* .6294	8820.1853	3094.8035	.0010		
.2233	22437.3177	6189.6029	.0010	* .6375	6947.8296	402.3251	.0010		
* .2323	29214.9320	1346.2393	.0010	* .6700	8820.1853	3094.8035	.0010		
+ .2603	23829.9827	4177.9848	.0010	+ .6826	10429.4865	355.9033	.0010		
* .2639	18568.8142	4642.2015	.0010	* .6866	9903.3663	526.1172	.0010		
* .2700	22421.8361	1500.9794	.0010	* .7106	12533.9487	4023.2409	.0010		
.3045	20116.2041	4642.2015	.0010	* .7224	14700.3106	696.3313	.0010		
* .3123	16046.5460	2058.0441	.0010	+ .7289	14096.8278	464.2214	.0010		
.3452	12533.9487	3559.0235	.0010	* .7488	15907.2837	820.1234	.0010		
+ .3460	12224.4721	1702.1425	.0010	.7512	6034.8628	2475.8425	.0010		
* .3545	8804.7113	3682.8159	.0010	+ .7634	18568.8179	711.8056	.0010		
.3858	2475.8425	1392.6618	.0010	* .7678	17872.4797	990.3370	.0010		
* .3955	5598.7463	2413.9464	.0010	* .7817	18816.3945	1222.4478	.0010		
+ .4036	5137.3737	324.9553	.0010	+ .7910	19651.9989	851.0718	.0010		
* .4264	4023.2409	1856.8818	.0010	* .7918	6963.3036	2475.8425	.0010		
* .4426	3203.1211	448.7471	.0010	* .7951	20735.1647	1114.1292	.0010		

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES			
CRITTENDEN	PRL	2	121	59	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI-	,PI-
* OGDEN	PR	137	1115	65	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI-	,PI-
+ WOOD	PRL	6	481	61	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI-	,PI-

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR			
		+	-			+	-		
.0614	74764.8170	2609.8624	.0010	.4707	1565.9180	383.8040	.0010		
.1023	62790.2001	2302.9201	.0010	.5116	951.8328	291.6912	.0010		
.1433	48205.6799	1995.7777	.0010	.5525	1397.0441	353.0997	.0010		

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REACTION PI- P = P PI-

CONTINUATION OF DATA AT .730 GEV/C

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.1842	38380.3275	1842.2558	.5935	2962.9614	506.6210
.2251	30550.7372	1688.7346	.6344	5142.9611	675.4944
.2660	22567.6218	1381.6923	.6753	9978.8822	921.1285
.3070	15659.1630	1228.1710	.7162	11590.8559	997.8882
.3479	16132.4035	921.1285	.7572	14431.0001	1074.6498
.3888	5987.3282	767.6072	.7981	16580.2984	1228.1710
.4297	3638.0336	614.0859			

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
VITITIOE PR 132 232 64	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOOM VS COST PI- ,PI-

DATA AT .7365 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.0621	60993.9496	6220.7743	.3934	6372.5006	1972.4422
.1035	46428.2279	5462.1430	.4348	3793.1577	1517.2629
.1449	40055.7246	5006.9642	.5384	1062.0846	455.1795
.1864	37476.3781	4855.2379	.6419	6372.5006	1972.4422
.2278	25490.0029	4096.6066	.6833	5006.9642	1820.7153
.2692	17185.3544	3337.9781	.7247	6979.4057	2124.1684
.3106	19117.4997	3489.7044	.7661	10772.5624	2579.3468
.3520	6372.5006	1972.4422	.8075	12745.0039	2882.7998

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
SHONLE PRL 5 157 60	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOOM VS COST PI- ,PI-

DATA AT .7426 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.0314	85632.8024	9598.0769	.3980	3299.3406	1349.7308
.0629	72585.4140	6298.7373	.4399	5398.9174	1649.6708
.1048	57438.5012	5698.8573	.5237	1649.6708	599.8809
.1466	47090.5650	5098.9774	.6075	5398.9174	1649.6708
.1885	39592.0658	4649.0675	.6494	7048.5872	1949.6108
.2304	32993.3941	4199.1575	.6913	7648.4671	2099.5808
.2723	25944.8005	3749.2506	.7332	14097.1763	2699.4592
.3142	16196.7561	2999.4006	.7751	15746.8342	2849.4307
.3561	17396.5163	2999.4006	.8170	13047.3865	2699.4592

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
GRARD NC 22 193 61	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOOM VS COST PI- ,PI-

DATA AT .7485 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.0636	82299.5589	5931.5019	.4873	1482.8770	444.8638
.1059	64050.1846	4448.6259	.5297	1631.1646	593.1514
.1483	44337.9892	3262.3281	.5720	1779.4507	593.1514
.1907	39444.4986	3114.0405	.6144	4893.4887	889.7266
.2331	33364.7101	2669.1762	.6568	5783.2143	1038.0142
.2754	19722.2483	1927.7397	.6991	9342.1166	1927.7397
.3178	11863.0057	1482.8770	.7415	13345.8817	2372.6025
.3602	9045.5414	1334.5894	.7839	14235.6073	2076.0273
.4025	6672.3399	1038.0142	.8263	14383.8948	2076.0273
.4449	2669.1762	741.4390			

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BRODY PR 3 2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOOM VS COST PI- ,PI-

DATA AT .7731 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.0665	58959.4560	2692.8630	.5098	1700.7553	425.1895
.1108	55274.5350	2551.1328	.5542	2267.6738	425.1895
.1552	43794.4311	2267.6738	.5985	2976.3220	566.9191
.1995	29763.2050	1842.4854	.6428	5669.1813	708.6487
.2438	23101.9106	1559.0258	.6872	7086.4806	850.3783

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REACTION PI- P = P PI-

CONTINUATION OF DATA AT .773 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2882	16015.4310	1275.5669	.0010	.7315	10204.5282	992.1079	.0010
.3325	14739.8752	1275.5669	.0010	.7758	11480.0946	1133.8373	.0010
.3768	8220.3133	992.1079	.0010	.8202	12613.9313	1133.8373	.0010
.4212	5527.4517	708.6487	.0010	.8645	10771.4466	1133.8373	.0010
.4655	2551.1328	566.9191	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
OLIVER	PR	147	932 66	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT .7771 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0112	56137.1169	4642.9178	.0010	.4801	2813.8917	1266.2518	.0010
.0335	62749.7079	4783.6123	.0010	*.4957	2405.8767	464.2927	.0010
.0558	67814.7110	5205.6959	.0010	.5024	1547.6409	844.1682	.0010
.0782	59232.3445	4642.9178	.0010	.5247	844.1682	844.1682	.0010
.1005	54730.1645	4642.9173	.0010	*.5444	2152.6271	351.7371	.0010
.1223	46017.1035	4220.8342	.0010	.5471	2673.1971	844.1682	.0010
*.1304	44600.1542	1195.9041	.0010	.5694	422.0846	422.0846	.0010
.1451	38128.2054	3095.2807	.0010	*.5895	2870.1692	379.8760	.0010
*.1572	38775.4074	1139.6263	.0010	.5917	1547.6409	844.1682	.0010
.1675	33485.2853	3095.2807	.0010	.6141	2251.1135	1547.6409	.0010
.1893	26450.5591	3095.2807	.0010	.6364	4642.9178	1266.2518	.0010
*.1907	33471.2235	900.4452	.0010	*.6435	4825.8201	337.6676	.0010
*.2121	23355.2907	3095.2807	.0010	.6587	6190.5576	1829.0299	.0010
*.2251	27449.4906	1083.3482	.0010	.6810	844.16702	1829.0299	.0010
.2345	25465.7016	3095.2807	.0010	*.7034	12099.7280	2391.8081	.0010
.2563	21104.1810	3095.2807	.0010	*.7074	8694.9198	450.2232	.0010
*.2626	20316.2813	1209.9733	.0010	.7257	10552.0910	1829.0299	.0010
*.2791	20260.1067	2673.1971	.0010	*.7480	7738.1975	1688.3340	.0010
.3015	18230.2762	3095.2807	.0010	*.7596	9510.9481	548.7094	.0010
*.3050	17277.2828	1350.6678	.0010	.7704	9567.2264	2251.1135	.0010
.3238	17305.4215	2673.1971	.0010	*.7927	16883.3421	2813.8917	.0010
*.3461	13225.2843	2391.8081	.0010	*.7981	11536.9493	633.1261	.0010
*.3519	11719.8522	1758.6827	.0010	.8150	12521.8116	1829.0299	.0010
*.3684	6612.6412	1829.0299	.0010	*.8262	11213.3519	703.4734	.0010
.3908	6612.6412	1829.0299	.0010	*.8374	15054.3090	2391.8081	.0010
*.3988	3545.5028	2180.7658	.0010	*.8463	9145.1423	830.0985	.0010
.4131	6049.8631	1829.0299	.0010	*.8597	10974.1718	1969.7245	.0010
*.4354	3095.2807	1266.2518	.0010	*.8610	10734.9905	900.4452	.0010
*.4439	2180.7658	3179.6966	.0010	*.8753	10622.4349	816.0290	.0010
*.4578	3095.2807	1266.2518	.0010	.8820	9567.2264	1969.7245	.0010

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES	
FEMINO	NC	52A	892 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-
* OGDEN	PR	137	1115 65	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT .7822 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0676	48239.4574	3624.9289	.0010	.5183	1951.8868	697.1029	.0010
.1127	45590.4727	3485.5118	.0010	.5633	2370.1477	836.5233	.0010
.1577	40431.9200	3346.0906	.0010	.6084	2927.8297	836.5233	.0010
.2028	28581.1763	2927.8297	.0010	.6535	3764.3494	975.9438	.0010
*.2473	33283.1998	2509.5680	.0010	.6985	7249.8602	1394.2046	.0010
.2929	19518.8549	2230.7272	.0010	.7436	8086.3823	1533.6251	.0010
.3380	14350.2988	1951.8868	.0010	.7887	8922.9054	1533.6251	.0010
.3831	9480.5871	1533.6251	.0010	*.8337	10874.7915	1673.0454	.0010
*.4281	5437.3945	1254.7845	.0010	*.8788	6971.0227	1394.2046	.0010
*.4732	2091.3071	697.1029	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
SHONLE	PRL	5	157 60	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT .7969 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0347	57327.8714	14128.2059	.0010	.4857	3532.0504	1086.7863	.0010
.0694	51622.2881	6656.5581	.0010	.5319	2037.7234	815.0900	.0010
.1156	40211.8427	4890.5320	.0010	.5782	2445.2665	950.9381	.0010
.1619	33282.7974	3939.5949	.0010	.6244	1766.0271	815.0900	.0010
.2081	28663.9559	3532.0504	.0010	.6707	5569.7723	1358.4826	.0010
.2544	18611.1962	2716.9642	.0010	.7169	7064.1026	1630.1776	.0010
.3006	14671.5995	2445.2665	.0010	*.7632	13720.6556	2852.8124	.0010
*.3469	16437.6147	2581.1160	.0010	*.8094	11139.5474	2581.1160	.0010
*.3931	7335.7989	1630.1776	.0010	*.8557	11139.5474	3124.5087	.0010

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REACTION PI- P = P PI-

CONTINUATION OF DATA AT .797 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.4394	4482.9876	1222.6344	.0010	.9019	8150.8879	2716.9642	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BRODY	PR	3 2619	71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT .8259 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1633	27966.7190	879.2133	.0010	.6492	4305.5556	374.9592	.0010
.2027	23648.2380	762.8473	.0010	.7275	8624.0429	478.3960	.0010
.2435	21126.9687	801.6361	.0010	.7756	9852.3552	478.3960	.0010
.2960	15347.4300	943.8614	.0010	.8310	11335.2595	517.1848	.0010
.3387	10382.4689	969.7209	.0010	.8718	11921.0916	594.7625	.0010
.3912	7654.3227	982.6504	.0010	.9015	10317.8209	646.4809	.0010
.4427	5456.2902	1396.3977	.0010	.9228	10434.1873	724.0585	.0010
.5487	2482.4843	452.5368	.0010	.9398	9451.5375	943.8614	.0010
.6011	2870.3720	336.1704	.0010				
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
HELLAND	PR	134 1079	64	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT .8380 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0372	55120.0672	9630.1796	.0010	.4711	6589.0698	2280.8321	.0010
.0744	65130.3870	7349.3472	.0010	.5702	2154.1205	760.2785	.0010
.1240	35352.9002	5448.6536	.0010	.6694	4054.8115	1900.6946	.0010
.1736	21414.4763	4181.5245	.0010	.7190	8996.6150	2787.6850	.0010
.2231	28890.5380	4815.0890	.0010	.7686	6589.0698	2280.8321	.0010
.2727	18880.2220	3928.0987	.0010	.8182	9883.6054	2914.3979	.0010
.3223	8996.6150	2787.6850	.0010	.8678	15585.6825	5575.3665	.0010
.3719	13178.1410	3294.5341	.0010	.9174	11530.8732	3041.1096	.0010
.4215	13178.1410	3294.5341	.0010	.9669	8236.3376	2660.9721	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
GRARD	NC	22 193	61	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT .8482 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	68049.7745	2991.1998	.0010	* .5798	99.7076	149.5609	.0010
* .0756	13236.0471	1296.1872	.0010	* .5919	3838.7162	174.4876	.0010
* .1260	11665.6740	1221.4072	.0010	* .6302	623.1674	286.6576	.0010
* .1765	8637.0851	1046.9206	.0010	* .6614	5458.9389	423.7542	.0010
* .2133	17947.1940	398.8275	.0010	* .6806	2255.8635	535.9241	.0010
* .2269	4810.8433	785.1907	.0010	* .7310	1744.8670	473.6075	.0010
* .2561	14582.0953	423.7542	.0010	* .7577	9721.3972	361.4375	.0010
* .2773	5633.4230	847.5073	.0010	* .7814	3178.1498	635.6308	.0010
* .3277	2442.8134	560.8508	.0010	* .8318	4698.6733	772.7274	.0010
* .3438	10718.4635	2741.9333	.0010	* .8596	14083.5622	286.6576	.0010
* .3781	1458.2104	436.2175	.0010	* .8822	3651.7538	685.4841	.0010
* .4285	1744.8670	473.6075	.0010	* .9135	13585.0290	336.5109	.0010
* .4527	8936.2075	1184.0172	.0010	* .9327	4810.8433	785.1907	.0010
* .4789	1458.2104	436.2175	.0010	* .9533	12276.3796	523.4608	.0010
* .5248	3763.3262	211.8776	.0010	* .9831	1707.4770	461.1442	.0010
* .5294	623.1674	286.6576	.0010	* .9846	6854.8317	847.5073	.0010
REFERENCES		TECHNIQUES		SYSTEMATIC ERROR		MEASURED VARIABLES	
WOOD	PRL	6 481	61	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-
* VAN DE WALLE	NC	53A 745	68	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT .8530 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0381	46993.1012	10387.9497	.0010	.5335	2844.3210	865.6636	.0010
.0762	45138.1161	5193.9741	.0010	.5843	4699.3098	1112.9958	.0010
.1270	31905.8486	3586.3150	.0010	.6351	2844.3210	865.6636	.0010

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REACTION PI- P = P PI-

CONTINUATION OF DATA AT .853 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1778	22507.2224	2596.9888	.0010	.6859	6183.3053	1236.6619	.0010
.2286	15829.2538	2102.3245	.0010	.7367	6925.2993	1360.3279	.0010
.2795	11871.9428	1731.3262	.0010	.7875	9893.2854	1607.6601	.0010
.3303	12366.6096	1854.9923	.0010	.8383	13974.2563	2349.6566	.0010
.3811	7790.9619	1360.3279	.0010	.8891	10635.2819	2102.3245	.0010
.4319	6677.9672	1236.6619	.0010	.9400	11624.6106	2596.9888	.0010
.4827	2844.3210	865.6636	.0010	.9908	6059.6367	1854.9923	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
BRODY	PR	3 2619	71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT .8650 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1191	25840.5722	1577.1251	.0010	.4506	5240.9056	327.5575	.0010
.1398	22928.9586	4852.6904	.0010	.4713	4403.8167	303.2941	.0010
.1606	21351.8345	1213.1734	.0010	.4972	3190.6443	206.2403	.0010
.1813	22322.3724	1334.4906	.0010	.5231	2875.2195	266.8989	.0010
.2020	18318.9036	1091.8561	.0010	.5542	2341.4236	169.8451	.0010
.2227	15043.3382	4852.6904	.0010	.5904	2389.9505	206.2403	.0010
.2434	13344.8969	4852.6904	.0010	.6215	2838.8243	181.9769	.0010
.2641	12131.7246	7279.0351	.0010	.6578	3954.9429	218.3720	.0010
.2797	13344.8969	849.2217	.0010	.6888	5350.0911	339.6893	.0010
.3004	11161.1867	727.9044	.0010	.7199	6454.0779	327.5575	.0010
.3263	8807.6323	436.7430	.0010	.7613	9414.2195	473.1382	.0010
.3470	7679.3820	400.3479	.0010	.7976	11233.9770	558.0603	.0010
.3729	7400.3524	388.2162	.0010	.8235	12859.6280	2062.3940	.0010
.3988	6553.2635	327.5575	.0010	.8494	14072.8003	727.9044	.0010
.4239	5889.7794	339.6893	.0010	.8960	13223.5797	849.2217	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
ALBROW	NP	B37 594	72	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT .8750 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0079	85387.9654	10151.0177	.0010	* .7545	7332.6149	334.3872	.0010
.0132	74042.7114	7165.4246	.0010	* .8192	12479.7687	453.8109	.0010
.0184	78222.5418	6568.3060	.0010	* .8823	15596.7368	561.2923	.0010
.0237	63294.5760	7165.4246	.0010	* .9302	15596.7368	585.1770	.0010
.0289	73445.5927	12539.4923	.0010	* .9676	14653.2835	621.0041	.0010
* .0931	36376.4622	3045.3058	.0010	* .9975	10891.4420	585.1770	.0010
* .1300	24864.0180	1242.0074	.0010	* 1.0202	9470.2996	644.8889	.0010
* .1952	18021.0384	835.9668	.0010	* 1.0233	7690.8890	573.2349	.0010
* .2647	11942.3736	692.6584	.0010	* 1.0286	6030.8992	334.3874	.0010
* .3294	9064.2590	453.8109	.0010	* 1.0333	9004.5471	1110.6414	.0010
* .4030	6007.0116	370.2143	.0010	* 1.0338	5445.7229	262.7332	.0010
* .4656	4120.1167	262.7330	.0010	* 1.0391	3797.6755	203.0213	.0010
* .5409	2878.1126	238.8482	.0010	* 1.0444	2615.3806	131.3671	.0010
* .6124	3116.9574	250.7906	.0010	* 1.0496	1731.6450	95.5400	.0010
* .6824	4956.0828	322.4448	.0010				

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES	
ABILLON	NP	846 630	72	SPARK CHAMBERS	5.2 P/C	DSIG/DOH	VS COST PI- ,PI-
* JUKE	PR	149 1077	66	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-
+ ABILLON	PL	328 712	70	SPARK CHAMBERS	7.0 P/C	DSIG/DOH	VS COST PI- ,PI-

DATA AT .8786 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0794	42398.3669	3206.5977	.0010	.6084	2969.0746	831.3414	.0010
.1323	31234.6441	2731.5482	.0010	.6613	3919.1754	950.1042	.0010
.1852	17339.3795	2018.9705	.0010	.7142	3681.6495	950.1042	.0010
.2381	15914.2241	2018.9705	.0010	.7671	7719.5896	1425.1556	.0010
.2910	12113.8128	1781.4448	.0010	.8200	9619.7968	1543.9191	.0010
.3439	7957.1155	1425.1556	.0010	.8729	12945.1505	1781.4448	.0010
.3968	10451.1374	1662.6820	.0010	.9259	13182.6822	1781.4448	.0010
.4497	3681.6495	950.1042	.0010	.9788	13182.6822	1781.4448	.0010
.5026	3444.1236	950.1042	.0010	1.0317	4988.0419	1068.8672	.0010
.5555	3444.1236	950.1042	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
SHONLE	PRL	5 157	60	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

REACTION PI- P = P PI-

DATA AT .8980 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1500	24720.0010	1050.0010	.0010	.3900	6260.0010	760.0010	.0010
.1700	19390.0010	690.0010	.0010	.4100	6310.0010	770.0010	.0010
.1900	17400.0010	620.0010	.0010	.4300	5650.0010	690.0010	.0010
.2100	15400.0010	550.0010	.0010	.4500	4900.0010	610.0010	.0010
.2300	13540.0010	520.0010	.0010	.4700	4740.0010	600.0010	.0010
.2500	11800.0010	460.0010	.0010	.4900	3920.0010	520.0010	.0010
.2700	10630.0010	430.0010	.0010	.5100	3450.0010	470.0010	.0010
.2900	11170.0010	430.0010	.0010	.5300	2520.0010	370.0010	.0010
.3100	9160.0010	360.0010	.0010	.5500	2480.0010	360.0010	.0010
.3300	8170.0010	360.0010	.0010	.5700	1950.0010	310.0010	.0010
.3500	6780.0010	440.0010	.0010	.5900	1530.0010	260.0010	.0010
.3700	7130.0010	500.0010	.0010	.6100	2190.0010	340.0010	.0010

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 GRADAMANTE NCL 1 177 69 SPARK CHAMBERS 10.0 P/C DSIG/DT VS -T PI- ,PI-

DATA AT .8988 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0409	74835.0898	8059.1616	.0010	.6276	1151.3095	805.9171	.0010
.0819	52960.1727	5756.5463	.0010	.6822	1726.9642	1151.3095	.0010
.1364	40295.8180	5180.8890	.0010	.7368	3453.9254	1381.5712	.0010
.1910	20147.9095	3453.9254	.0010	.7913	2878.2736	1266.4404	.0010
.2456	20147.9095	3453.9254	.0010	.8459	8059.1616	2302.6189	.0010
.3002	6907.8526	2302.6189	.0010	.9005	18420.9375	3453.9254	.0010
.3547	6907.8526	2302.6189	.0010	.9551	21874.8675	3453.9254	.0010
.4093	3453.9254	1381.5712	.0010	1.0096	14967.0075	3453.9254	.0010
.4912	287.8280	230.2626	.0010	1.0642	17269.6369	3453.9254	.0010
.5730	575.6553	575.6553	.0010				

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 CRITTENDEN PRL 2 121 59 BUBBLE CHAMBER NOT GIVEN DSIG/DT VS COST PI- ,PI-

DATA AT .9039 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0303	66039.5839	6626.8125	.0010	.5637	1793.8098	708.3845	.0010
.0468	61469.3675	5027.2368	.0010	.5912	3599.0442	925.4698	.0010
.0688	42950.0275	3084.8948	.0010	.6187	1793.8098	674.1079	.0010
.0962	33248.3233	2742.1297	.0010	.6462	1542.4490	674.1079	.0010
.1237	26164.4878	2399.3646	.0010	.6737	3884.6827	948.3198	.0010
.1512	21137.2440	2170.8538	.0010	.7012	4067.4913	994.0219	.0010
.1787	18852.1381	2056.5973	.0010	.7287	3884.6827	948.3198	.0010
.2062	15195.9684	1828.0876	.0010	.7562	4981.5346	1074.0019	.0010
.2337	10694.3052	1599.5768	.0010	.7837	7483.7281	1313.9371	.0010
.2612	13710.6480	1828.0876	.0010	.8111	8866.2186	1462.4703	.0010
.2887	18420.9222	1576.7245	.0010	.8386	10671.4541	1656.7045	.0010
.3162	7769.3667	1336.7893	.0010	.8661	14293.3449	1816.6620	.0010
.3437	8159.2606	1531.0224	.0010	.8936	12499.5407	1622.4278	.0010
.3712	7449.4515	1336.7893	.0010	.9211	1310.0010	160.0010	.0010
.3987	5427.1330	1119.7040	.0010	.9486	13367.8726	1770.9599	.0010
.4262	5747.0459	1131.1296	.0010	.9761	18166.4971	2068.0239	.0010
.4537	5747.0459	1131.1296	.0010	1.0036	15652.9594	1862.3642	.0010
.4812	3153.4481	948.3198	.0010	1.0311	14281.9274	1850.9387	.0010
.5087	2490.7693	834.0655	.0010	1.0586	9094.7317	1496.7469	.0010
.5362	2273.6825	788.3622	.0010	1.0861	2936.3651	856.9166	.0010

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 BERTANZA NC 44 712 66 BUBBLE CHAMBER NOT GIVEN DSIG/DT VS COST PI- ,PI-

DATA AT .9241 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0425	71842.3661	6762.9415	.0010	.5951	4323.8474	1773.8876	.0010
.0850	54768.7073	6984.6774	.0010	.6517	3880.3758	1663.0197	.0010
.1417	39532.9734	5210.7907	.0010	.7084	3880.3758	1663.0197	.0010
.1984	16952.7863	3547.7720	.0010	.7651	5986.8661	2106.4914	.0010
.2550	16975.9223	2862.5645	.0010	.8218	8204.2244	2439.0951	.0010
.3117	16975.9223	2862.5645	.0010	.8784	15299.7621	3326.0362	.0010
.3684	4989.3543	1884.7555	.0010	.9351	18958.4032	3880.3758	.0010
.4251	7095.5453	2328.2272	.0010	.9918	20399.6861	4102.1116	.0010
.4817	1653.1197	1108.6801	.0010	1.0485	19069.2745	4212.9795	.0010
.5384	4323.8474	1773.8876	.0010	1.1051	10310.7148	3326.0362	.0010

REACTION PI- P = P PI-

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BRODY	PR	3	2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-
DATA AT .9250 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0085	143947.7054	11072.9013	.0010	* .8218	11825.8559	442.9168	.0010
.0142	115711.8095	8969.0503	.0010	* .8905	17218.3529	586.8645	.0010
.0199	107407.1343	7751.0312	.0010	* .9573	19842.6358	675.4477	.0010
.0255	99112.4590	8858.3213	.0010	* 1.0072	19787.2685	708.6660	.0010
.0312	106299.8443	13287.4814	.0010	* 1.0461	20329.8379	786.1766	.0010
* .1039	44889.5363	3465.8161	.0010	* 1.0777	16343.5992	775.1038	.0010
* .1446	26065.5975	1229.0923	.0010	* 1.1017	12014.0870	775.1038	.0010
* .2168	12899.9272	852.6138	.0010	* 1.1037	13619.6684	620.0834	.0010
* .2928	8016.7782	631.1561	.0010	+ 1.1094	10109.5990	453.9899	.0010
* .3641	5547.5214	376.4794	.0010	+ 1.1150	8814.0297	387.5525	.0010
* .4441	4317.3566	332.1878	.0010	* 1.1153	9334.4533	1218.0195	.0010
* .5116	3332.9413	254.6775	.0010	+ 1.1207	6987.0011	310.0422	.0010
* .5943	3499.1348	276.8233	.0010	+ 1.1264	5093.5352	221.4590	.0010
* .6696	3676.2013	287.8962	.0010	+ 1.1320	2901.1009	143.9487	.0010
* .7452	6964.8527	387.5523	.0010				

REFERENCES		TECHNIQUES		SYSTEMATIC ERROR		MEASURED VARIABLES	
ABILLON	NP	846	630 72	SPARK CHAMBERS	5.0 P/C	DSIG/DOH	VS COST PI- ,PI-
* DUKE	PR	149	1077 66	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-
+ ABILLON	PL	328	712 70	SPARK CHAMBERS	7.0 P/C	DSIG/DOH	VS COST PI- ,PI-
DATA AT .9350 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1439	28919.6247	1418.6995	.0010	.5585	3252.0945	229.1754	.0010
.1670	24881.7904	1200.4382	.0010	.5815	3142.9639	229.1754	.0010
.1842	19851.7803	1091.3076	.0010	.6045	3077.4855	207.3492	.0010
.2073	16042.2073	982.1769	.0010	.6333	3153.8769	174.6100	.0010
.2246	12768.2877	654.7849	.0010	.6736	3612.2257	185.5231	.0010
.2476	9930.8906	502.0020	.0010	.7024	4594.4016	305.5668	.0010
.2764	7355.4072	491.0889	.0010	.7255	5183.7071	261.9146	.0010
.2994	7409.9725	371.0452	.0010	.7542	5947.6217	349.2191	.0010
.3282	6995.2760	349.2191	.0010	.7830	8217.5394	425.6106	.0010
.3512	6176.7961	305.5668	.0010	.8176	11131.3279	545.6543	.0010
.3858	4616.2277	229.1754	.0010	.8636	14623.5088	763.9156	.0010
.4145	4834.4890	261.9146	.0010	.8982	19316.1270	982.1769	.0010
.4433	4539.8363	251.0015	.0010	.9442	21717.0314	1091.3076	.0010
.4664	3568.5734	240.0884	.0010	.9730	20407.4336	3055.6594	.0010
.4952	3841.4001	240.0884	.0010	1.0076	21607.8708	1418.6995	.0010
.5239	3535.8342	174.6100	.0010				

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
ALBROW	NP	837	594 72	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-
DATA AT .9500 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0088	157548.6355	10681.2644	.0010	* 1.1500	12326.1789	576.7892	.0010
.0147	160218.9513	9079.0749	.0010	* 1.1559	10499.6829	480.6579	.0010
.0206	139330.4878	9613.1380	.0010	* 1.1618	8331.3864	384.5265	.0010
.0265	133515.7929	10147.2012	.0010	* 1.1677	5564.9392	256.3513	.0010
.0324	140932.6773	14953.7697	.0010	* 1.1736	3802.5308	192.2637	.0010
* 1.1441	14697.4194	747.6894	.0010				

REFERENCES		TECHNIQUES		SYSTEMATIC ERROR		MEASURED VARIABLES	
ABILLON	NP	846	630 72	SPARK CHAMBERS	5.0 P/C	DSIG/DOH	VS COST PI- ,PI-
* ABILLON	PL	328	712 70	SPARK CHAMBERS	7.0 P/C	DSIG/DOH	VS COST PI- ,PI-
DATA AT .9559 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0445	97450.1586	2436.2560	.0010	.6228	3283.6469	529.6216	.0010
.0890	64931.4509	2330.3318	.0010	.6822	3501.4193	529.6216	.0010
.1483	32095.1069	1588.8629	.0010	.7415	6037.6743	741.4699	.0010
.2076	18430.7974	1165.1664	.0010	.8008	6567.2949	741.4699	.0010
.2669	8685.7775	847.3940	.0010	.8601	10804.2548	847.3940	.0010
.3263	5613.9777	635.5458	.0010	.9194	15464.9133	1059.2423	.0010
.3856	5613.9777	635.5458	.0010	.9788	20548.2768	1271.0895	.0010
.4449	3813.2675	529.6216	.0010	1.0381	22244.0607	1377.0147	.0010

TURN TO NEXT PAGE

REACTION $\pi^- p = p \pi^-$

CONTINUATION OF DATA AT .956 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.5342	4342.8882	529.6216	.0010	1.0974	19595.9575	1271.0895	.0010
.5635	3283.6469	529.6216	.0010	1.1567	8685.7775	953.3182	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
BRODY	PR	3	2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST $\pi^- p, \pi^- \pi^-$

DATA AT .9750 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0091	152143.5445	10314.8175	.0010	* .8905	13718.7045	464.1675	.0010
.0152	151627.8037	9283.3359	.0010	* .9631	18700.7583	587.9453	.0010
.0213	128935.2074	9283.3359	.0010	* 1.0327	24559.5741	732.3527	.0010
.0274	127387.9849	9799.0767	.0010	* 1.0852	26127.4287	794.2414	.0010
.0335	132545.3931	13409.2625	.0010	* 1.1263	25106.2543	856.1302	.0010
* .1151	54678.8030	3001.6101	.0010	* 1.1590	19794.1288	856.1302	.0010
* .1600	30304.9268	1217.1490	.0010	* 1.1837	13646.5008	825.1860	.0010
* .2392	9850.9631	691.0934	.0010	* 1.1848	10706.7895	474.4826	.0010
* .3222	3931.8325	443.5379	.0010	* 1.1909	10015.6878	381.6492	.0010
* .4001	2537.4457	257.8712	.0010	* 1.1970	8736.6506	330.0751	.0010
* .4867	2558.0750	268.1860	.0010	* 1.1979	11016.2226	1309.9824	.0010
* .5998	2877.8323	226.9268	.0010	* 1.2031	7395.7244	268.1862	.0010
* .6488	3414.2028	257.8712	.0010	* 1.2092	5239.9278	185.6677	.0010
* .7285	5260.5549	319.7601	.0010	* 1.2152	3104.7608	134.0936	.0010
* .8095	8581.9259	422.9083	.0010				

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES	
ABILLON	NP	846	630 72	SPARK CHAMBERS	5.8 P/C	DSIG/DOM	VS COST $\pi^- p, \pi^- \pi^-$
* DUKE	PR	149	1077 66	COUNTERS	NOT GIVEN	DSIG/DOM	VS COST $\pi^- p, \pi^- \pi^-$
+ ABILLON	PL	328	712 70	SPARK CHAMBERS	7.0 P/C	DSIG/DOM	VS COST $\pi^- p, \pi^- \pi^-$

DATA AT .9791 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.046J	98472.2244	3590.1336	.0010	.6432	2461.8066	615.4526	.0010
.0919	73033.5563	3487.5583	.0010	.7044	3590.1336	718.0279	.0010
.1531	33439.5333	2359.2323	.0010	.7657	5641.6390	923.1785	.0010
.2144	18553.2421	1641.2054	.0010	.8269	7693.1466	1128.3290	.0010
.2757	6452.2412	1025.7537	.0010	.8882	12821.9103	1436.0548	.0010
.3369	4308.1605	820.6032	.0010	.9495	17335.2172	1641.2054	.0010
.3982	3530.1336	718.0279	.0010	1.0107	21643.3788	1846.3549	.0010
.4594	3384.983J	718.0279	.0010	1.0720	24720.6491	2051.5065	.0010
.5207	2666.9561	615.4526	.0010	1.1332	20617.6240	1846.3549	.0010
.5819	2666.9561	615.4526	.0010	1.1945	10770.3945	1436.0548	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
BRODY	PR	3	2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST $\pi^- p, \pi^- \pi^-$

DATA AT .9820 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1107	76112.2535	6538.5032	.0010	.5597	3994.6172	480.1723	.0010
.1353	44134.8910	2554.1034	.0010	.6089	3483.7967	449.5230	.0010
.1784	30138.4097	2043.2829	.0010	.6581	3698.3413	469.9558	.0010
.2091	19309.4154	2043.2829	.0010	.7011	4801.7136	510.8215	.0010
.2337	13996.4823	1634.6266	.0010	.7503	6129.8468	612.9856	.0010
.2645	12872.6773	1532.4625	.0010	.7995	7355.8160	612.9856	.0010
.2891	6640.6673	1430.2984	.0010	.8487	10727.2312	817.3138	.0010
.3260	4597.3854	510.8215	.0010	.8979	15018.1233	1021.6420	.0010
.3690	3677.9085	612.9856	.0010	.9410	18287.3744	1225.9702	.0010
.4121	2257.8276	388.2246	.0010	.9840	17367.8975	1634.6266	.0010
.4613	2901.4614	388.2246	.0010	1.0394	25234.5330	1941.1188	.0010
.5105	3177.3044	429.0902	.0010	1.0824	24723.7126	2145.4470	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
ALBROW	NP	837	594 72	COUNTERS	NOT GIVEN	DSIG/DOM	VS COST $\pi^- p, \pi^- \pi^-$

REACTION PI- P = P PI-

DATA AT 1.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1210	52259.4967	2502.7947	.0010	1.0714	24459.5664	787.7327	.0010
.1682	29385.3887	1316.2110	.0010	1.1247	25337.0425	847.5604	.0010
.2509	9203.4996	767.7899	.0010	1.1664	25955.2649	937.3020	.0010
.3373	2632.2470	408.8237	.0010	1.1999	21159.0742	937.3020	.0010
.4189	2143.8281	259.2543	.0010	1.2252	14747.5296	927.3308	.0010
.5086	2452.9382	259.2543	.0010	* 1.2256	14518.1997	837.5894	.0010
.5843	3260.6105	259.2543	.0010	* 1.2319	11736.2097	468.6516	.0010
.6767	3629.5483	289.1682	.0010	* 1.2382	10080.9755	358.9675	.0010
.7591	5075.3854	348.9960	.0010	* 1.2396	13381.4629	1535.5794	.0010
.8421	8485.5667	448.7089	.0010	* 1.2445	7687.8659	279.1971	.0010
.9254	13800.2644	508.5366	.0010	* 1.2508	5633.7800	199.4268	.0010
.9998	18805.8497	628.1918	.0010	* 1.2571	3150.9287	129.6278	.0010

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
DUKE	PR	149	1077 66	COUNTERS	NOT GIVEN	VS COST PI- ,PI-
* ABILLON	PL	328	712 70	SPARK CHAMBERS	7.0 P/C	VS COST PI- ,PI-

DATA AT 1.0029 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1841	27871.0021	764.8164	.0010	.8192	7211.1200	377.4424	.0010
.2360	13955.4032	526.4325	.0010	.8799	10280.3163	446.9711	.0010
.2910	6128.4585	407.2404	.0010	.9754	18007.9342	605.8939	.0010
.3479	3257.9157	496.6345	.0010	1.0343	23341.7778	615.8266	.0010
.4200	2622.2246	794.6146	.0010	1.1007	23868.2144	695.2880	.0010
.4770	2532.4265	824.4124	.0010	1.1488	25298.5195	794.6146	.0010
.5478	3247.9830	764.8164	.0010	1.1836	21216.1880	864.1430	.0010
.6155	2850.6761	635.6915	.0010	1.2082	20918.2102	903.8738	.0010
.7528	4380.3079	367.5097	.0010	1.2285	15912.1376	1042.9313	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
HELLAND	PR	134	1062 64	COUNTERS	NOT GIVEN	VS COST PI- ,PI-

DATA AT 1.0042 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0475	111851.9803	3173.1059	.0010	.6653	3073.9463	594.9585	.0010
.0951	79922.5922	3073.9463	.0010	.7287	3867.2230	594.9585	.0010
.1584	36391.5608	1983.1928	.0010	.7921	4957.9805	694.1181	.0010
.2218	18443.6799	1388.2353	.0010	.8554	8238.2450	892.4373	.0010
.2851	7040.3299	793.2777	.0010	.9188	13684.0146	1189.9151	.0010
.3485	3371.4251	594.9585	.0010	.9822	16757.9668	1388.2353	.0010
.4119	2181.5120	495.7990	.0010	1.0455	19831.9191	1388.2353	.0010
.4752	3272.2655	594.9585	.0010	1.1089	22013.4231	1586.5544	.0010
.5386	2875.6271	495.7990	.0010	1.1723	21418.4705	1586.5544	.0010
.6020	2578.1484	495.7990	.0010	1.2356	9519.3197	1189.9151	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BRODY	PR	3	2619 71	BUBBLE CHAMBER	NOT GIVEN	VS COST PI- ,PI-

DATA AT 1.0100 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1533	34931.4305	1771.1721	.0010	.6130	3138.9097	186.9579	.0010
.1788	24796.3960	1279.1801	.0010	.6386	2883.0739	196.7978	.0010
.2107	14759.7600	787.1881	.0010	.6705	3365.2260	167.2783	.0010
.2427	10627.0274	491.9930	.0010	.7152	3729.3001	186.9579	.0010
.2682	7015.8064	354.2352	.0010	.7535	4378.7295	245.9970	.0010
.2937	4792.0027	344.3954	.0010	.7790	4742.8035	238.1571	.0010
.3001	4792.0027	344.3954	.0010	.8237	5677.5883	285.3563	.0010
.3257	2755.1560	177.1181	.0010	.8597	6612.3730	334.5555	.0010
.3640	2135.2461	118.0791	.0010	.8812	8432.7433	423.1141	.0010
.3959	1544.8558	127.9189	.0010	.9259	12299.8001	590.3914	.0010
.4278	1741.6526	137.7588	.0010	.9642	16038.9391	787.1881	.0010
.4598	1653.0940	127.9189	.0010	1.0025	18006.9059	885.5865	.0010
.4853	2134.7656	157.4384	.0010	1.0345	20958.8587	1672.7737	.0010
.5236	2164.7656	127.9189	.0010	1.0664	20171.6716	983.9849	.0010
.5555	2725.6365	167.2783	.0010	1.1175	24993.1928	1279.1801	.0010
.5875	2853.5544	167.2783	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
ALBROW	NP	837	594 72	COUNTERS	NOT GIVEN	VS COST PI- ,PI-

REACTION PI- P = P PI-

DATA AT 1.0170 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0483	105291.0636	12381.4477	.0010	.8056	7896.8316	2437.2950	.0010
.0967	72143.8652	7214.3893	.0010	.8701	5752.0129	2047.3280	.0010
.1611	29539.9993	4582.1118	.0010	.9345	16573.5982	3509.7024	.0010
.2256	21643.1649	3997.1612	.0010	.9990	19498.3530	3704.6859	.0010
.2900	6531.9470	2144.8197	.0010	1.0634	26712.7412	4387.1282	.0010
.3545	5059.5706	1949.8362	.0010	1.1279	29539.9993	4582.1118	.0010
.4511	3607.1942	1169.9011	.0010	1.1923	26127.7858	4289.6365	.0010
.5478	7214.3893	2242.3115	.0010	1.2568	12966.4031	4094.6530	.0010
.6767	2144.8197	682.4433	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
GRARD NC 22 193 61	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOOM VS COST PI- ,PI-

DATA AT 1.0241 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0488	117085.3825	3091.3633	.0010	.6829	3574.3889	579.6318	.0010
.0976	83176.9814	3091.3633	.0010	.7480	3670.9941	579.6318	.0010
.1626	37579.3903	2028.7088	.0010	.8130	4637.0454	676.2369	.0010
.2276	13911.1351	1159.2616	.0010	.8780	7052.1737	869.4472	.0010
.2927	7148.7788	869.4472	.0010	.9431	10916.3712	1062.6574	.0010
.3577	2608.3376	483.0267	.0010	1.0081	15070.3947	1255.8677	.0010
.4228	1062.6574	289.8164	.0010	1.0732	20576.8843	1738.8924	.0010
.4878	1835.4985	386.4215	.0010	1.1382	25310.5435	1932.1036	.0010
.5528	1642.2882	386.4215	.0010	1.2032	23378.4331	1642.2882	.0010
.6179	2318.5232	483.0267	.0010	1.2683	12365.4530	1352.4728	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BRODY PR 3 2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOOM VS COST PI- ,PI-

DATA AT 1.0300 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0098	161532.4999	9586.4995	.0010	* .9571	11906.4274	305.7688	.0010
.0164	140921.5282	7669.1998	.0010	* 1.0439	17236.5182	393.0472	.0010
.0229	133252.3295	8148.5247	.0010	* 1.1177	22212.9109	488.9122	.0010
.0295	139004.2286	8627.8496	.0010	* 1.1725	23688.2340	527.2582	.0010
.0361	126541.7806	11983.1241	.0010	* 1.2152	21694.2423	556.0177	.0010
* .1281	51795.8147	1706.3974	.0010	* 1.2494	19220.9210	575.1907	.0010
* .1779	28145.9582	920.3044	.0010	* 1.2748	15999.8569	1217.4863	.0010
* .2649	8148.5224	393.0472	.0010	* 1.2751	13037.6342	556.0177	.0010
* .3562	1984.4057	201.3173	.0010	* 1.2814	11197.0312	575.1909	.0010
* .4419	1025.7561	134.2120	.0010	* 1.2879	9097.5880	393.0474	.0010
* .5354	2051.5115	162.9713	.0010	* 1.2897	9538.5647	843.6127	.0010
* .6146	2703.3913	153.3850	.0010	* 1.2945	7487.0563	325.9419	.0010
* .7106	3844.1846	191.7308	.0010	* 1.3010	4802.8367	210.9040	.0010
* .7961	5320.5053	230.0758	.0010	* 1.3076	3086.8535	153.3850	.0010
* .8817	7410.3620	268.4228	.0010				

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
ABILLON NP 946 630 72	SPARK CHAMBERS	4.6 P/C	DSIG/DOOM VS COST PI- ,PI-
* DUKE PR 149 1077 66	COUNTERS	NOT GIVEN	DSIG/DOOM VS COST PI- ,PI-
+ ABILLON PL 328 712 70	SPARK CHAMBERS	7.0 P/C	DSIG/DOOM VS COST PI- ,PI-

DATA AT 1.0302 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	170795.0195	5367.2968	.0010	.8090	4418.4355	182.1057	.0010
.1429	37571.0713	479.2238	.0010	.8962	6958.3166	210.8590	.0010
.3055	3881.7060	162.9368	.0010	1.0155	13504.5005	297.1192	.0010
.3652	1945.6457	258.7813	.0010	1.1374	19830.2419	325.8725	.0010
.4851	2089.4126	603.8218	.0010	1.2010	19351.0191	421.7171	.0010
.6300	2616.5577	249.1969	.0010	1.2475	15670.5877	440.8860	.0010
.7231	3364.1453	210.8590	.0010	1.2836	7571.7218	469.6394	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
WOOD PRL 6 481 61	COUNTERS	NOT GIVEN	DSIG/DOOM VS COST PI- ,PI-

REACTION PI- P = P PI-

DATA AT 1.0350 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1583	34957.0234	1714.5144	.0010	.5871	2866.0985	209.5526	.0010
.1847	27908.4685	1428.7621	.0010	.6267	3514.7534	304.8034	.0010
.2111	19907.4061	952.5084	.0010	.6597	3705.2549	247.6529	.0010
.2375	12668.3497	666.7562	.0010	.6926	3838.6059	314.3284	.0010
.2639	7829.6120	466.7296	.0010	.7322	3914.8065	238.1279	.0010
.2969	4181.5086	304.8034	.0010	.7784	4000.5322	276.2282	.0010
.3232	3130.9009	381.0040	.0010	.8180	4714.9127	266.7031	.0010
.3430	1628.7887	266.7031	.0010	.8641	6229.3995	333.3786	.0010
.3694	847.7326	190.5025	.0010	.9037	8477.3171	476.2547	.0010
.4024	752.0069	200.0276	.0010	.9433	10001.3289	476.2547	.0010
.4288	628.6559	200.0276	.0010	.9895	14287.6123	762.0069	.0010
.4618	981.0836	180.9774	.0010	1.0357	17335.6361	952.5084	.0010
.4947	1438.2872	190.5025	.0010	1.0884	19240.6509	1047.7592	.0010
.5211	1800.2400	209.5526	.0010	1.1280	21812.4210	1714.5144	.0010
.5541	1866.9155	247.6529	.0010	1.1544	21145.6658	2190.7681	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
ALBROW NP 837 594 72	COUNTERS	NOT GIVEN	DSIG/DOM VS COST PI- ,PI-

DATA AT 1.0352 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0990	79988.9820	6665.7502	.0010	.8248	2380.6265	1237.9261	.0010
.1650	34281.0019	4761.2521	.0010	.8908	6665.7502	1999.7262	.0010
.2309	16188.2524	2856.7494	.0010	.9566	9522.5032	2380.6265	.0010
.2969	7141.8776	2094.9510	.0010	1.0227	13331.4994	2856.7494	.0010
.4289	952.2507	360.9009	.0010	1.0687	19045.0053	3808.9996	.0010
.5609	2380.6265	1237.9261	.0010	1.1547	23806.2564	3808.9996	.0010
.6268	4285.1247	1618.8259	.0010	1.2207	19045.0053	3808.9996	.0010
.6928	4285.1247	1618.8259	.0010	1.2867	9522.5032	2380.6265	.0010
.7588	3808.9996	1523.6009	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
PICKUP PR 132 1819 63	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM VS COST PI- ,PI-

DATA AT 1.0422 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0499	111929.3035	4152.5210	.0010	.6991	2925.6395	755.0050	.0010
.0999	80596.6386	4058.1455	.0010	.7656	3680.6435	849.3885	.0010
.1665	33314.5467	2642.5130	.0010	.8322	4246.8965	849.3885	.0010
.2330	16893.2131	1793.1354	.0010	.8988	6511.9084	1132.5060	.0010
.2996	4152.5210	849.3885	.0010	.9654	12363.1845	1510.0090	.0010
.3662	1132.5060	471.8785	.0010	1.0319	14439.4473	1604.3844	.0010
.4328	1038.1315	471.8785	.0010	1.0985	18497.5890	1887.5109	.0010
.4993	849.3885	377.5030	.0010	1.1651	19535.7241	1887.5109	.0010
.5659	2170.6374	660.6295	.0010	1.2317	20479.4744	2170.6374	.0010
.6325	1132.5060	471.8785	.0010	1.2983	8871.2958	1604.3844	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BRODY PR 3 2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM VS COST PI- ,PI-

DATA AT 1.0453 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0251	132617.7273	7276.2555	.0010	.7853	6787.4114	1645.1485	.0010
.0501	128819.7856	7172.8462	.0010	.8188	9382.0455	1936.5757	.0010
.0836	71098.5784	5330.2800	.0010	.8522	6467.7826	1607.5451	.0010
.1170	64903.4195	5095.2588	.0010	.8856	6947.2259	1663.9511	.0010
.1504	45537.6724	4267.9841	.0010	.9190	9222.2311	1917.7740	.0010
.1838	36823.1211	3835.5451	.0010	.9524	6674.6013	1626.3477	.0010
.2172	25241.2715	3177.4858	.0010	.9858	13424.4055	2312.6096	.0010
.2506	14702.9180	2425.4179	.0010	1.0193	12973.1620	2284.4071	.0010
.2841	8188.1378	1814.3647	.0010	1.0527	19534.9539	2792.0510	.0010
.3175	4070.5663	1278.5163	.0010	1.0861	23285.8951	3045.8739	.0010
.3676	1334.9214	517.0476	.0010	1.1195	19572.5648	2792.0510	.0010
.4679	648.6586	507.6468	.0010	1.1529	21170.7090	2867.2578	.0010
.5681	2359.6139	686.2629	.0010	1.1864	29518.6574	3440.7095	.0010
.6350	1485.3350	545.2502	.0010	1.2198	19055.5135	2754.4476	.0010
.6851	2115.1918	911.8823	.0010	1.2532	22449.2215	2989.4688	.0010
.7185	5076.4571	1419.5291	.0010	1.2866	11863.8619	2171.5960	.0010
.7519	5518.2969	1485.3350	.0010	1.3200	6749.8080	1645.1485	.0010

REACTION PI- P = P PI-

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
BERGIA	NC	15	551 60	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOOM	VS COST PI-	,PI-
DATA AT 1.0550 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0102	142085.4434	9286.6312	.0010	†	.7443	3538.2071	176.4470	.0010
.0169	119797.5309	7429.3052	.0010	+	.7781	3807.5194	213.5935	.0010
.0237	121654.8569	7429.3052	.0010	+	.8119	4160.4113	204.3069	.0010
.0305	137442.1283	8357.9682	.0010	+	.8269	5200.5117	241.4532	.0010
.0372	110975.2322	9750.9627	.0010	†	.8525	5051.9278	250.7400	.0010
.0440	132334.4817	19037.5930	.0010	†	.8999	6212.7566	306.4598	.0010
* .1341	41529.7750	1327.9886	.0010	+	.9153	6222.0410	269.3131	.0010
* .1759	32224.6079	1578.7281	.0010	+	.9337	7104.2731	352.8929	.0010
* .1864	23792.3409	910.0906	.0010	+	.9811	9658.8964	464.3325	.0010
† .2030	25723.9667	1300.1292	.0010	†	1.0028	10419.5956	306.4596	.0010
† .2300	14022.8126	742.9314	.0010	†	1.0081	11051.0910	835.7977	.0010
† .2571	16215.2942	557.1988	.0010	†	1.0284	14208.5452	742.9314	.0010
* .2772	6909.2517	455.0457	.0010	†	1.0690	15694.4061	742.9314	.0010
† .2842	7011.4068	352.8929	.0010	†	1.0817	14589.2880	399.3259	.0010
† .3383	2228.7923	213.5935	.0010	†	1.1231	17273.1332	835.7977	.0010
* .3717	1476.5749	204.3067	.0010	†	1.1502	16344.4702	1114.3966	.0010
† .4195	603.6320	92.8673	.0010	†	1.1567	18656.8389	492.1922	.0010
† .4601	594.3453	102.1539	.0010	†	1.1908	21173.5179	1114.3966	.0010
* .4602	687.2111	130.0138	.0010	†	1.2121	20151.9795	538.6254	.0010
† .4939	1137.9763	111.4406	.0010	†	1.2559	18359.6622	566.4853	.0010
† .5345	1783.6340	111.4406	.0010	†	1.2908	15815.1232	575.7719	.0010
* .5579	1680.8809	157.8735	.0010	†	1.3160	11171.8172	715.0715	.0010
* .5683	2275.2254	157.8737	.0010	†	1.3167	11116.0928	566.4853	.0010
† .6022	2683.8371	157.8737	.0010	†	1.3227	8794.4398	380.7528	.0010
† .6292	2934.5762	176.4470	.0010	†	1.3295	7252.8592	278.5999	.0010
* .6397	2693.1215	157.8735	.0010	†	1.3317	7745.0484	835.7974	.0010
† .6563	3259.6082	195.0202	.0010	†	1.3363	6017.7374	232.1668	.0010
† .6969	3835.3793	195.0202	.0010	†	1.3430	4225.4178	157.8737	.0010
* .7388	3473.1985	204.3067	.0010	†	1.3498	2553.8243	111.4406	.0010

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES		
ABILLON	NP	B46	630 72	SPARK CHAMBERS	4.3 P/C	DSIG/DOOM	VS COST PI-	,PI-
* DUKE	PR	149	1077 66	COUNTERS	NOT GIVEN	DSIG/DOOM	VS COST PI-	,PI-
† ALBROW	NP	B37	594 72	COUNTERS	NOT GIVEN	DSIG/DOOM	VS COST PI-	,PI-
‡ ABILLON	PL	328	712 70	SPARK CHAMBERS	7.0 P/C	DSIG/DOOM	VS COST PI-	,PI-

DATA AT 1.0660 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0515	108272.3730	13190.5436	.0010	†	.7888	3297.6360	916.0112	.0010
.1029	71815.1663	7602.8840	.0010	†	.8574	3572.4390	916.0112	.0010
.1715	38115.9903	4580.0521	.0010	†	.9260	5679.2625	1282.4153	.0010
.2401	16121.7744	2381.6257	.0010	†	.9946	8060.8891	1557.2184	.0010
.3087	4030.4441	1007.6122	.0010	†	1.0632	10900.5180	1832.0214	.0010
.3773	1648.8185	641.2082	.0010	†	1.1318	14014.9527	2748.0298	.0010
.4802	595.4076	366.4051	.0010	†	1.2004	13831.7489	2106.8245	.0010
.5831	1923.6225	641.2082	.0010	†	1.2690	17220.9839	2656.4288	.0010
.6516	4030.4441	1007.6122	.0010	†	1.3376	7969.2881	1832.0214	.0010
.7202	3572.4390	916.0112	.0010					

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
BRODY	PR	3	2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOOM	VS COST PI-	,PI-

DATA AT 1.0800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.1406	39968.6809	1458.6470	.0010	†	.9485	5015.2217	270.1205	.0010
.1950	25076.1132	1026.4555	.0010	†	1.0387	7788.4509	306.1365	.0010
.2897	5852.5928	459.2043	.0010	†	1.1190	11399.0512	405.1804	.0010
.3877	1053.4677	207.0926	.0010	†	1.1957	14523.4360	504.2243	.0010
.4801	792.3520	153.0687	.0010	†	1.2522	15369.8111	540.2403	.0010
.5809	1458.6470	171.0766	.0010	†	1.2968	15054.6714	585.2602	.0010
.6652	2602.1522	180.0806	.0010	†	1.3322	12299.4436	585.2602	.0010
.7678	3088.3677	215.0956	.0010	†	1.3587	9526.2188	603.2681	.0010
.8584	3736.6550	234.1046	.0010	†	1.3739	6789.0079	891.3958	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
DUKE	PR	149	1077 66	COUNTERS	NOT GIVEN	DSIG/DOOM	VS COST PI-	,PI-

REACTION PI- P = P PI-

DATA AT 1.0806 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0377	104189.8691	8187.6310	.0010	.8380	4228.7759	1079.6882	.0010
.1048	67300.5024	6568.0993	.0010	.9428	8367.5789	2339.3223	.0010
.1746	32300.6508	4588.6718	.0010	1.0126	7107.9432	2159.3760	.0010
.2444	11606.6422	2699.2182	.0010	1.0824	8367.5789	2339.3223	.0010
.3143	5848.3075	1979.4281	.0010	1.1523	12326.4340	2789.1922	.0010
.3841	3868.8800	1619.5321	.0010	1.2221	14215.8876	3059.1141	.0010
.5238	1979.4281	629.8187	.0010	1.2919	14215.8876	3059.1141	.0010
.6634	4498.7000	1709.5064	.0010	1.3618	12956.2496	2879.1662	.0010
.7333	4498.7000	1709.5064	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
ERWIN PR 109 1364 58	BUBBLE CHAMBER	NOT GIVEN	VS COST PI- ,PI-

DATA AT 1.0820 GEV/C FOLLOW

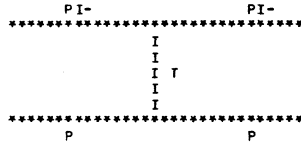
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1539	28652.4397	2065.8797	.0010	.7415	3053.9386	628.7467	.0010
.1819	26417.3194	1886.2380	.0010	.7485	3260.4964	440.1230	.0010
.2099	17694.7007	1526.9548	.0010	.7835	3682.6542	449.1051	.0010
.2378	14461.1516	1616.7756	.0010	.8394	4041.9375	538.9259	.0010
.2658	9071.9029	808.3883	.0010	.8814	3323.3710	628.7467	.0010
.3078	4041.9375	538.9259	.0010	.9374	3772.4751	538.9259	.0010
.3568	1455.0981	404.1946	.0010	1.0353	6287.4578	988.0299	.0010
.4057	485.0334	341.3201	.0010	1.0843	6646.7410	1167.6715	.0010
.4617	476.0513	287.4276	.0010	1.1262	8622.7988	1257.4924	.0010
.5247	1383.2415	359.2842	.0010	1.1822	12664.7353	1257.4924	.0010
.5736	1464.0802	341.3201	.0010	1.1962	6916.2034	808.3883	.0010
.6086	1976.0588	538.9259	.0010	1.2452	14550.9724	1706.5964	.0010
.6506	2901.2132	431.1409	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
ALBROW NP 837 594 72	COUNTERS	NOT GIVEN	VS COST PI- ,PI-

DATA AT 1.0844 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0526	88303.0061	13612.6338	.0010	.5964	2149.3642	895.5694	.0010
.1052	53286.2834	7433.2166	.0010	.6665	2955.3748	985.1262	.0010
.1754	28658.1867	5462.9662	.0010	.7367	1074.6821	626.8989	.0010
.2456	13433.5264	2507.5906	.0010	.8068	2955.3748	985.1262	.0010
.3157	5114.7388	1432.9104	.0010	.8770	3671.8295	1164.2399	.0010
.3859	2149.3642	895.5694	.0010	.9472	6179.4209	1522.4672	.0010
.4560	358.2283	358.2283	.0010	1.0173	6895.8756	1701.5809	.0010
.5262	1432.9104	716.4557	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BRODY PR 3 2619 71	BUBBLE CHAMBER	NOT GIVEN	VS COST PI- ,PI-



DATA AT 1.0844 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
1.0875	10209.4740	2149.3642	.0010	1.2979	15403.7705	2776.2611	.0010
1.1576	12627.5131	2418.0338	.0010	1.3681	7343.6597	1701.5809	.0010
1.2278	11463.2715	2238.9219	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
GR0DY PR 3 2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT VS COST PI-,PI-

DATA AT 1.0850 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0105	112762.5033	8501.9357	.0010	* 1.3656	9217.8881	751.7510	.0010
.0176	95758.6339	6712.0547	.0010	* 1.3725	7678.5904	366.9266	.0010
.0246	89494.5504	6264.5845	.0010	* 1.3796	6407.7749	268.4831	.0010
.0316	85466.3182	6712.0547	.0010	* 1.3866	4752.1350	205.8373	.0010
.0386	88151.6397	8054.4654	.0010	* 1.3936	3347.0784	143.1915	.0010
.0456	74280.0620	12081.6977	.0010	* 1.4007	1431.9058	80.5456	.0010

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
ABILLON HP 846 630 72	SPARK CHAMBERS	4.0 P/C	DSIG/DT VS COST PI-,PI-
* ABILLON PL 328 712 70	SPARK CHAMBERS	7.0 P/C	DSIG/DT VS COST PI-,PI-

DATA AT 1.1048 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0539	65719.8517	1310.9030	.0010	.7549	3233.5574	611.7552	.0010
.1379	52086.4713	3495.7378	.0010	.8268	4020.0986	699.1487	.0010
.1797	26305.4275	2184.8376	.0010	.8987	3146.1639	611.7552	.0010
.2516	12934.2293	1398.2964	.0010	.9706	3320.9509	611.7552	.0010
.3235	4981.4267	786.5422	.0010	1.0425	3932.7051	699.1487	.0010
.3954	1485.6899	349.5749	.0010	1.1144	6467.1156	873.9356	.0010
.4673	1048.7217	349.5749	.0010	1.1863	10574.6014	1136.1160	.0010
.5392	1048.7217	349.5749	.0010	1.2582	11885.5077	1686.8768	.0010
.6111	2272.2293	524.3618	.0010	1.3301	11361.1426	1398.2964	.0010
.6830	2097.4433	436.9683	.0010	1.4020	4194.8855	524.3618	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
GR0DY PR 3 2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT VS COST PI-,PI-

DATA AT 1.1200 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0110	104726.9443	7296.5503	.0010	* 1.4237	10996.3300	1055.8546	.0010
.0183	68244.1977	4721.2976	.0010	* 1.4310	8335.2356	515.0515	.0010
.0256	77686.7909	4721.2976	.0010	* 1.4383	6232.1125	283.2788	.0010
.0329	82408.0876	5150.5064	.0010	* 1.4456	4498.1091	214.6054	.0010
.0403	74253.1207	6008.9240	.0010	* 1.4529	2772.6897	137.3478	.0010
.0476	66527.3625	9013.3855	.0010	* 1.4602	1279.0432	85.8428	.0010

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
ABILLON HP 846 630 72	SPARK CHAMBERS	3.6 P/C	DSIG/DT VS COST PI-,PI-
* ABILLON PL 328 712 70	SPARK CHAMBERS	7.0 P/C	DSIG/DT VS COST PI-,PI-

DATA AT 1.1209 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1685	31598.6626	771.7457	.0010	.9738	3644.3500	325.8487	.0010
.2272	17775.8574	557.3722	.0010	1.0420	4870.5670	342.9986	.0010
.2902	8677.3357	403.0232	.0010	1.1489	8386.2940	437.3230	.0010
.3569	3541.4507	274.3990	.0010	1.2142	9869.7529	403.0232	.0010

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REACTION PI- P = P PI-

CONTINUATION OF DATA AT 1.121 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.4250	1483.4660	428.7480	.0010	1.2867	12253.5936	480.1977	.0010
.5107	1217.6426	334.4236	.0010	1.3395	11284.6250	523.0724	.0010
.5789	1353.4168	317.2737	.0010	1.3776	11181.7256	591.6716	.0010
.6617	2400.9832	325.8487	.0010	1.4047	9140.8890	600.2469	.0010
.7408	2383.8333	420.1731	.0010	1.4259	7837.4976	814.6202	.0010
.8983	3369.9518	360.1485	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
HELLAND PR 134 1062 64	COUNTERS	NOT GIVEN	DSIG/DOM VS COST PI- ,PI-

DATA AT 1.1253 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0552	77295.0315	2303.4946	.0010	.7733	2218.1799	426.5742	.0010
.1105	55454.5170	2303.4946	.0010	.8470	2218.1799	426.5742	.0010
.1841	27300.6841	1535.6637	.0010	.9206	2644.7531	511.8888	.0010
.2578	13991.5960	1109.0913	.0010	.9942	2730.0678	511.8888	.0010
.3314	5886.7094	682.5181	.0010	1.0679	4180.4167	597.2035	.0010
.4051	2218.1799	426.5742	.0010	1.1415	5886.7094	682.5181	.0010
.4787	1023.7758	255.9449	.0010	1.2152	6569.2266	767.8328	.0010
.5524	1365.0352	341.2596	.0010	1.2888	9559.2390	938.4620	.0010
.6260	1535.6637	341.2596	.0010	1.3625	10323.0639	1023.7758	.0010
.6997	1716.2938	341.2596	.0010	1.4361	6313.2826	853.1474	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BRODY PR 3 2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM VS COST PI- ,PI-

DATA AT 1.1310 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0556	128822.7522	16102.8407	.0010	.9638	2542.5533	1101.7744	.0010
.1112	55088.6775	7627.6619	.0010	1.0750	14441.4892	3390.0714	.0010
.1854	33053.2027	5932.6257	.0010	1.1491	7627.6619	3390.0714	.0010
.2595	18221.6360	4237.5915	.0010	1.2233	10170.2162	3390.0714	.0010
.3336	13560.2844	3390.0714	.0010	1.2974	8475.4820	3390.0714	.0010
.4819	1695.0370	678.0152	.0010	1.3715	14407.8067	3390.0714	.0010
.7043	2542.5533	847.5187	.0010	1.4457	2966.3123	1695.0370	.0010
.8526	4237.5915	1695.0370	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DERADO PR 118 309 60	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM VS COST PI- ,PI-

DATA AT 1.1420 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1877	26361.5269	1757.4361	.0010	.7508	2334.8790	351.4880	.0010
.2177	16067.9787	1255.3118	.0010	.8109	2719.8410	393.3317	.0010
.2478	12553.1086	1087.9370	.0010	.8709	2929.0594	418.4379	.0010
.2928	6946.0539	669.5001	.0010	.9310	2853.7408	393.3317	.0010
.3454	4519.1197	418.4379	.0010	.9911	3180.1216	502.1253	.0010
.3829	2751.6847	582.1253	.0010	1.0361	3347.4964	585.8127	.0010
.4205	2343.2478	418.4379	.0010	1.0962	3933.3080	502.1253	.0010
.4655	1439.4240	334.7505	.0010	1.1788	4184.3702	836.8748	.0010
.5181	928.9310	309.6443	.0010	1.2313	6694.9917	920.5622	.0010
.5931	1338.9991	267.8006	.0010	1.2839	7866.6151	920.5622	.0010
.6757	2159.1355	318.0131	.0010	1.3514	8703.4889	1338.9991	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
ALBROH NP 837 594 72	COUNTERS	NOT GIVEN	DSIG/DOM VS COST PI- ,PI-

DATA AT 1.1511 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	106922.6655	3312.8643	.0010	.9635	3246.6071	182.2085	.0010
.1775	24846.4761	530.0591	.0010	1.0621	3652.4328	215.3371	.0010
.3748	2857.3456	157.3620	.0010	1.1949	6170.2090	414.1089	.0010
.4461	1656.4327	281.5944	.0010	1.3291	9126.9395	364.4160	.0010

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REACTION PI- P = P PI-

CONTINUATION OF DATA AT 1.151 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.5887	1689.5613	380.9803	.0010	1.3982	8530.6241	356.1338	.0010
.7579	3022.9888	207.0550	.0010	1.4490	6559.4704	356.1338	.0010
.8656	2907.0386	289.8765	.0010	1.4877	2459.8020	339.5695	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
WOOD	PRL	6	481 61	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT 1.1610 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0575	66019.3570	6388.9724	.0010	.8054	2211.5669	573.3704	.0010
.1151	39070.9964	4259.3147	.0010	.8822	1310.5596	409.5506	.0010
.1918	19740.2878	3030.6661	.0010	.9589	2621.1165	655.2803	.0010
.2685	10238.7398	1392.4695	.0010	1.0356	2129.6570	573.3704	.0010
.3452	4750.7742	901.0100	.0010	1.1123	4996.5039	819.1001	.0010
.4219	1474.3786	409.5506	.0010	1.1890	4586.9544	819.1001	.0010
.4986	1310.5596	409.5506	.0010	1.2657	7044.2517	1064.8298	.0010
.5753	1064.8298	409.5506	.0010	1.3424	7044.2517	1064.8298	.0010
.6520	1474.3786	409.5506	.0010	1.4191	7371.8913	1146.7397	.0010
.7287	2539.2066	573.3704	.0010	1.4958	4013.5850	737.1902	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BRDLY	PR	3	2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT 1.1648 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0578	63457.1609	4404.4831	.0010	.8089	2610.0638	489.3881	.0010
.1156	40048.1454	2528.4993	.0010	.8859	2936.3219	489.3881	.0010
.1926	23490.5728	1631.2913	.0010	.9629	2446.9348	407.8236	.0010
.2696	10521.8216	1060.3397	.0010	1.0400	2202.2412	407.8236	.0010
.3467	4159.7896	570.9526	.0010	1.1170	3507.2735	570.9526	.0010
.4237	2446.9348	407.8236	.0010	1.1940	4078.2267	570.9526	.0010
.5007	897.2107	244.6945	.0010	1.2711	5138.5637	734.0816	.0010
.5778	2039.1138	407.8236	.0010	1.3481	8074.8862	1141.9042	.0010
.6548	1386.5977	326.2591	.0010	1.4251	7993.3217	1141.9042	.0010
.7318	2039.1138	407.8236	.0010	1.5022	4241.3541	815.6461	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BRDLY	PR	3	2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT 1.1742 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0584	69411.7737	2905.6098	.0010	.8174	2259.9186	564.9808	.0010
.1168	43422.7029	2744.1870	.0010	.8953	2824.8984	645.6922	.0010
.1946	22518.4801	1937.0738	.0010	.9731	1694.9404	484.2694	.0010
.2725	10331.0562	1210.6720	.0010	1.0510	2421.3414	564.9808	.0010
.3503	4196.9922	807.1150	.0010	1.1288	3793.4352	726.4036	.0010
.4282	2259.9186	564.9808	.0010	1.2066	3954.8580	726.4036	.0010
.5060	1291.3834	403.5580	.0010	1.2845	5891.9316	968.5370	.0010
.5839	1533.5176	484.2694	.0010	1.3623	6699.0456	968.5370	.0010
.6617	1049.2492	403.5580	.0010	1.4402	8232.5582	1210.6720	.0010
.7396	2421.3414	564.9808	.0010	1.5180	3632.0124	807.1150	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BRDLY	PR	3	2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT 1.1770 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1328	31300.4951	1609.2809	.0010	.7262	2132.2969	168.9754	.0010
.1562	26231.2634	1287.4249	.0010	.7553	2405.8745	152.8826	.0010
.1874	20598.7837	1046.0329	.0010	.8121	2454.1528	185.0682	.0010
.2265	16977.9040	885.1049	.0010	.8433	2961.0760	201.1610	.0010
.2577	13517.9522	804.6410	.0010	.8746	2663.3592	185.0682	.0010
.2889	8931.5045	1528.8169	.0010	.9136	2430.0137	152.8826	.0010

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REACTION PI- P = P PI-

CONTINUATION OF DATA AT 1.177 GEV/C

-T	DSIG/DT	ERROR	-	-T	DSIG/DT	ERROR	-
		+				+	
.3202	6712.6518	337.9498	.0010	.9605	2880.6120	152.8826	.0010
.3436	4787.6087	370.1354	.0010	1.0073	2832.3336	217.2538	.0010
.3748	3822.4408	217.2538	.0010	1.0386	2598.9880	177.0218	.0010
.4139	1770.2089	152.8826	.0010	1.0698	2977.1688	265.5322	.0010
.4529	1102.3577	177.0218	.0010	1.1010	3387.5352	201.1610	.0010
.4841	989.7081	128.7434	.0010	1.1557	3999.8616	217.2538	.0010
.5232	1052.1257	120.6970	.0010	1.2025	4634.7271	249.4394	.0010
.5700	981.6617	96.5578	.0010	1.2494	4489.8919	257.4858	.0010
.6169	1327.6569	136.7898	.0010	1.3119	6091.1254	305.7642	.0010
.6559	1842.6265	144.8362	.0010	1.3431	7644.0805	724.1770	.0010
.6872	1713.8841	144.8362	.0010	1.3900	6034.8006	402.3210	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
ALBROW NP 837 594 72	COUNTERS	NOT GIVEN	VS COST PI- ,PI-

DATA AT 1.1800 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-	-T	DSIG/DT	ERROR	-
		+				+	
.0118	78594.6861	8019.8668	.0010	* 1.0858	2686.6541	176.4379	.0010
.0196	74985.7465	5212.9138	.0010	* 1.1841	4202.4088	192.4776	.0010
.0274	62554.9544	4811.9205	.0010	* 1.2713	5750.2429	232.5769	.0010
.0353	62955.9477	4811.9205	.0010	* 1.3539	6512.1301	280.6961	.0010
.0431	60950.9813	5613.9071	.0010	* 1.4147	6848.9645	296.7359	.0010
.0509	37232.3771	6816.8870	.0010	* 1.4622	6800.8453	304.7557	.0010
* .1665	24661.0865	745.8484	.0010	* 1.4998	6624.4082	368.9147	.0010
* .2304	14780.6079	521.2921	.0010	* 1.5238	5637.9667	328.8155	.0010
* .3414	4940.2364	352.8749	.0010	* 1.5279	4202.4088	344.8551	.0010
* .4951	1636.0535	200.4975	.0010	* 1.5317	4667.5629	248.6168	.0010
* .5614	962.3844	120.2990	.0010	* 1.5395	4531.2252	232.5771	.0010
* .6758	1796.4507	144.3584	.0010	* 1.5439	2622.4952	521.2921	.0010
* .7716	2004.9675	120.2990	.0010	* 1.5473	3336.2652	176.4380	.0010
* .8863	2614.4753	152.3783	.0010	* 1.5552	2405.9607	128.3189	.0010
* .9869	2630.5151	152.3783	.0010	* 1.5630	1451.5967	88.2195	.0010

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
ABILLON NP 846 630 72	SPARK CHAMBERS	3.2 P/C	VS COST PI- ,PI-
* DUKE PR 149 1077 66	COUNTERS	NOT GIVEN	VS COST PI- ,PI-
+ ABILLON PL 328 712 70	SPARK CHAMBERS	7.0 P/C	VS COST PI- ,PI-

DATA AT 1.2100 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-	-T	DSIG/DT	ERROR	-
		+				+	
.1726	24196.9892	1982.7752	.0010	.8826	2234.3096	304.3266	.0010
.1930	18102.7144	1326.7673	.0010	.9361	2231.2043	298.8922	.0010
.2220	13304.9286	1060.4825	.0010	.9935	2197.0453	307.4319	.0010
.2562	10990.6569	912.9777	.0010	1.0537	2821.9996	352.4597	.0010
.2904	9239.2321	796.5266	.0010	1.1041	2960.1882	367.9865	.0010
.3245	6392.3907	644.3638	.0010	1.1570	3596.0113	413.0143	.0010
.3571	6392.3907	644.3638	.0010	1.2105	3885.5864	448.7259	.0010
.3963	2531.6482	388.1714	.0010	1.2643	5088.1382	537.2288	.0010
.4340	1799.5588	321.4061	.0010	1.3100	5245.7354	588.4673	.0010
.4694	1780.9267	324.5114	.0010	1.3423	4755.8644	725.1033	.0010
.5050	1461.0743	283.3654	.0010	1.4434	6976.1989	420.0013	.0010
.5468	805.8427	222.8108	.0010	1.4868	6855.0897	457.2657	.0010
.5810	805.8427	211.1657	.0010	1.5262	5153.3508	461.9237	.0010
.6190	1183.9206	263.1805	.0010	1.5549	4377.0101	510.8332	.0010
.6624	1315.1222	243.7720	.0010	1.5789	3132.5359	473.5689	.0010
.7173	1952.4980	281.8127	.0010	1.5963	2648.0993	461.1474	.0010
.7574	2053.5147	287.2471	.0010	1.6086	2150.4648	424.6594	.0010
.8294	2076.7125	286.4707	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
APLIN NP 832 253 71	COUNTERS	10.0 P/C	VS COST PI- ,PI-

DATA AT 1.2120 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-	-T	DSIG/DT	ERROR	-
		+				+	
.1784	18659.9443	1549.3739	.0010	.8030	2331.8072	224.6601	.0010
.2109	16423.3536	929.6247	.0010	.8678	2881.8346	325.3693	.0010
.2433	13944.3570	774.6874	.0010	.9246	2238.8448	255.6475	.0010
.2758	9141.3010	619.7502	.0010	.9970	2052.9201	240.1538	.0010
.3082	7049.6476	697.2188	.0010	1.0625	2494.4914	294.3818	.0010
.3569	4477.6887	294.3818	.0010	1.1112	2602.9475	364.1036	.0010
.4299	1479.6521	216.9132	.0010	1.1598	2556.4663	464.8129	.0010
.4948	666.2313	185.9257	.0010	1.2085	2943.8095	387.3442	.0010
.5596	991.5996	193.8726	.0010	1.2653	3408.6214	542.2815	.0010

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REACTION PI- P = P PI-

CONTINUATION OF DATA AT 1.212 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.6083	1061.3214	224.6601	.0010	1.3139	3408.6214	542.2815	.0010
.6489	1363.4491	255.6475	.0010	1.3788	5112.9315	542.2815	.0010
.6813	1704.3112	286.6350	.0010	1.4518	5345.3375	774.6874	.0010
.7300	2107.1481	232.4069	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
ALBROW NP 837 594 72	COUNTERS	NOT GIVEN	DSIG/DOH VS COST PI- ,PI-

DATA AT 1.2123 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0609	52195.1901	6350.1597	.0010	.8519	2090.9859	542.0878	.0010
.1217	33754.2373	2323.2288	.0010	.9331	2168.3468	542.0878	.0010
.2028	20134.6499	2323.2288	.0010	1.0142	3020.1976	619.5288	.0010
.2840	10867.3204	1316.4976	.0010	1.0953	2168.3468	542.0878	.0010
.3651	5343.4269	851.8518	.0010	1.1765	2632.9927	619.5288	.0010
.4463	1781.1435	464.6469	.0010	1.2576	4104.3713	774.4100	.0010
.5274	1006.7337	309.7649	.0010	1.3387	4723.8991	851.8518	.0010
.6085	387.2059	232.3239	.0010	1.4199	5885.5138	929.2920	.0010
.6897	1781.1435	464.6469	.0010	1.5010	5265.9860	851.8518	.0010
.7708	2168.3468	542.0878	.0010	1.5821	1781.1435	464.6469	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BRODY PR 3 2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH VS COST PI- ,PI-

DATA AT 1.2166 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0611	48952.6948	4933.8173	.0010	.8558	3391.9992	1002.1827	.0010
.1223	30527.9912	2929.4538	.0010	.9373	2235.6357	770.9100	.0010
.2038	20968.7214	2466.9084	.0010	1.0188	3391.9992	1002.1827	.0010
.2853	14184.7196	2004.3630	.0010	1.1003	2235.6357	770.9100	.0010
.3668	4239.9992	1079.2737	.0010	1.1818	2235.6357	770.9100	.0010
.4483	2235.6357	770.9100	.0010	1.2633	2852.3629	925.0911	.0010
.5298	2004.3630	770.9100	.0010	1.3448	6244.3627	1310.5464	.0010
.6113	1387.6365	616.7282	.0010	1.4263	11332.3584	1773.0918	.0010
.6928	1387.6365	616.7282	.0010	1.5078	8171.6314	1541.8191	.0010
.7743	1696.0009	693.8191	.0010	1.5893	4779.6355	1156.3646	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
GRARD NC 22 193 61	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH VS COST PI- ,PI-

DATA AT 1.2300 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1764	21384.5008	1733.0166	.0010	.8988	2489.3106	303.2787	.0010
.1991	18323.6001	1241.2354	.0010	.9618	2160.9498	282.7562	.0010
.2290	15305.2647	1057.2925	.0010	1.0122	2229.3583	294.9177	.0010
.2641	12375.8603	899.1928	.0010	1.0738	2221.7573	305.5590	.0010
.2993	8798.8554	727.4115	.0010	1.1255	2369.2157	322.2811	.0010
.3343	6000.1873	583.7536	.0010	1.1796	2601.0445	342.8036	.0010
.3679	4182.0412	473.5399	.0010	1.2344	2916.4838	375.4877	.0010
.4082	2920.2842	389.9295	.0010	1.2895	3756.3882	449.9770	.0010
.4469	2318.2893	340.5234	.0010	1.3363	4172.9200	508.5042	.0010
.4833	1695.0118	293.3975	.0010	1.3695	4533.9649	684.8462	.0010
.5197	690.9269	189.2645	.0010	1.4760	5900.6149	362.5661	.0010
.5625	965.3211	218.1481	.0010	1.5199	6502.6098	424.1338	.0010
.5977	1330.1664	251.5923	.0010	1.5598	4290.7347	391.4497	.0010
.6366	808.7416	215.8678	.0010	1.5889	4665.4613	478.1005	.0010
.6740	1096.8174	215.8678	.0010	1.6130	3324.6545	454.5375	.0010
.7301	1135.5822	215.8678	.0010	1.6387	2525.0351	419.5732	.0010
.7813	1670.6888	248.5519	.0010	1.6431	1682.8503	360.2858	.0010
.8445	2257.4818	278.1956	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
APLIN NP 832 253 71	COUNTERS	10.0 P/C	DSIG/DOH VS COST PI- ,PI-

REACTION PI- P = P PI-

DATA AT 1.2317 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1242	34902.3667	3034.9901	.0010	.6211	2276.2442	758.7487	.0010
.2070	17451.1987	2276.2442	.0010	.7039	1517.4965	758.7487	.0010
.3105	9104.9737	1517.4965	.0010	.7867	1517.4965	758.7487	.0010
.4348	5311.2351	1517.4965	.0010	.8695	2276.2442	758.7487	.0010
.5383	1517.4965	758.7487	.0010				

PICKUP	REFERENCE	PR	132	1819	63	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
						BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH VS COST PI- ,PI-

DATA AT 1.2489 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0632	61254.0686	18483.5690	.0010	.9695	1490.6116	894.3666	.0010
.1265	30482.9808	5291.6672	.0010	1.0538	2012.3239	1043.4284	.0010
.2108	20495.8971	5366.1978	.0010	1.1381	2012.3239	1043.4284	.0010
.2951	7974.7641	2310.4460	.0010	1.2224	4471.8314	1639.6727	.0010
.3794	3950.1177	1490.6116	.0010	1.3067	5515.2588	1863.2643	.0010
.5480	320.4823	372.6537	.0010	1.3910	5142.6062	1714.2032	.0010
.7166	2459.5070	1192.4895	.0010	1.4753	5738.8504	1863.2643	.0010
.8009	2981.2208	1267.0200	.0010	1.5596	3651.9955	1416.0811	.0010
.8852	1490.6116	894.3666	.0010	1.6439	4695.4230	1639.6727	.0010

BRODY	REFERENCE	PR	3	2619	71	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
						BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH VS COST PI- ,PI-

DATA AT 1.2500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1435	26875.8755	2010.1080	.0010	.8018	2255.7877	119.1184	.0010
.1772	22781.2131	1712.3143	.0010	.8440	2523.8020	126.5633	.0010
.2110	19728.8285	1488.9691	.0010	.8862	2702.4781	141.4530	.0010
.2448	15783.0630	818.9335	.0010	.9284	3082.1650	156.3427	.0010
.2785	11241.7103	595.5882	.0010	.9621	2680.1436	148.8978	.0010
.3123	8487.1192	446.6914	.0010	.9959	2799.2611	141.4530	.0010
.3207	6551.4607	372.2430	.0010	1.0550	2985.3821	148.8978	.0010
.3545	5226.2791	260.5704	.0010	1.0972	2799.2611	215.9014	.0010
.3882	3930.8768	245.6807	.0010	1.1056	2977.9372	238.2359	.0010
.4136	2759.4817	134.0081	.0010	1.1478	2866.2646	141.4530	.0010
.4558	1451.7449	96.7839	.0010	1.1984	3223.6170	171.2323	.0010
.4979	1042.2787	74.4494	.0010	1.2238	2285.5671	253.1256	.0010
.5401	1034.8338	81.8942	.0010	1.2575	3283.1757	163.7875	.0010
.5823	789.1541	74.4494	.0010	1.3166	3640.5280	178.6772	.0010
.6330	818.9335	67.0046	.0010	1.3672	4318.0085	223.3462	.0010
.6836	1347.5171	89.3391	.0010	1.4263	4600.9125	230.7911	.0010
.7258	1809.0973	104.2288	.0010	1.4681	4690.2506	372.2430	.0010
.7596	1823.9869	104.2288	.0010	1.5023	5494.2933	342.4637	.0010

ALBROW	REFERENCE	NP	837	594	72	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
						COUNTERS	NOT GIVEN	DSIG/DOH VS COST PI- ,PI-

DATA AT 1.2586 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0639	53427.0653	8338.7526	.0010	.8940	2213.8293	442.7670	.0010
.1277	37487.4905	3468.3329	.0010	.9792	2582.8010	516.5613	.0010
.2129	20662.4053	2140.0350	.0010	1.0643	3615.9216	590.3556	.0010
.2980	9371.8754	1033.1216	.0010	1.1495	2213.8293	442.7670	.0010
.3832	4206.2762	664.1499	.0010	1.2346	2804.1840	516.5613	.0010
.4683	1549.6819	368.9726	.0010	1.3198	3837.3045	590.3556	.0010
.5534	590.3556	221.3840	.0010	1.4049	4206.2762	590.3556	.0010
.6386	664.1499	221.3840	.0010	1.4900	4575.2478	737.9443	.0010
.7237	1180.7102	295.1783	.0010	1.5752	4206.2762	811.7386	.0010
.8089	2066.2407	442.7670	.0010	1.6603	3173.1556	737.9443	.0010

BRODY	REFERENCE	PR	3	2619	71	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
						BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH VS COST PI- ,PI-

REACTION PI- P = P PI-

DATA AT 1.2781 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0651	51373.5622	5282.0728	.0010	.9118	1664.2159	361.7868	.0010
.1303	32777.7700	2966.6434	.0010	.9986	2460.1433	434.1440	.0010
.2171	17293.3591	1374.7872	.0010	1.0855	2387.7861	434.1440	.0010
.3039	9116.9991	1013.0014	.0010	1.1723	2243.0718	506.5012	.0010
.3908	3762.5723	578.8583	.0010	1.2591	2387.7861	506.5012	.0010
.4776	1808.9302	361.7868	.0010	1.3460	2026.0003	434.1440	.0010
.5644	434.1440	217.0725	.0010	1.4328	2821.9291	578.8583	.0010
.6513	795.9299	217.0725	.0010	1.5196	4052.0010	723.5727	.0010
.7381	1736.5723	361.7868	.0010	1.6065	3762.5723	578.8583	.0010
.8249	2170.7146	434.1440	.0010	1.6933	2315.4289	434.1440	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
3RDY	BUBBLE CHAMBER	NOT GIVEN	VS COST PI- ,PI-

DATA AT 1.2800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0131	64635.4102	6860.7428	.0010	1.5707	3884.2010	174.2010	.0010
.0218	51275.0183	3610.9177	.0010	1.5794	4816.9622	267.2087	.0010
.0305	56330.3017	3610.9177	.0010	1.5891	3889.2510	186.6010	.0010
.0392	52719.3850	3610.9177	.0010	1.6053	3860.9510	196.8010	.0010
.0479	47303.0100	3610.9177	.0010	1.6272	4010.8510	141.8010	.0010
.0566	46219.7349	5416.3761	.0010	1.6297	4130.8880	281.6524	.0010
* .1949	18762.3207	707.7405	.0010	1.6541	3723.8810	133.9010	.0010
* .2688	10695.5346	491.0853	.0010	1.6695	3899.7893	303.3179	.0010
* .3962	3596.4723	252.7650	.0010	1.6783	3357.1910	128.5010	.0010
* .5262	974.9484	144.4375	.0010	1.6922	4809.7421	599.4132	.0010
* .6466	852.1771	115.5503	.0010	1.6989	2947.5810	124.0010	.0010
* .7749	1588.8040	129.9939	.0010	1.6993	3127.0531	303.3179	.0010
* .8822	2303.7641	137.2157	.0010	1.7009	4181.4426	288.8743	.0010
* 1.0087	2958.1728	158.8812	.0010	1.7096	3596.4740	180.5468	.0010
* 1.1190	2874.2890	166.1030	.0010	1.7151	2476.1410	119.1010	.0010
* 1.2273	2737.0741	173.3249	.0010	1.7160	1386.5928	368.3144	.0010
* 1.3330	3394.2610	166.1030	.0010	1.7183	3372.5972	151.6595	.0010
* 1.4269	3610.9177	187.7685	.0010	1.7269	2098.7110	115.6010	.0010
+ 1.4725	2829.9510	120.7010	.0010	1.7270	2773.1850	115.5503	.0010
+ 1.5009	3465.2110	141.0010	.0010	+ 1.7345	1578.0010	109.2010	.0010
* 1.5150	3574.8868	223.8777	.0010	1.7357	1949.8960	86.6630	.0010
+ 1.5268	3668.2310	151.0010	.0010	+ 1.7386	1311.4610	105.2010	.0010
+ 1.5500	4240.8910	172.6010	.0010				

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
ABILLON NP 846 630 72	SPARK CHAMBERS	3.0 P/C	VS COST PI- ,PI-
* DUKE PR 149 1077 66	COUNTERS	NOT GIVEN	VS COST PI- ,PI-
+ OTT PL 428 133 72	COUNTERS	6.0 P/C	VS -T PI- ,PI-
\$ ABILLON PL 328 712 70	SPARK CHAMBERS	7.0 P/C	VS COST PI- ,PI-

DATA AT 1.2820 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1656	23496.1876	1513.5590	.0010	.8282	2472.1458	237.8458	.0010
.2005	17730.2523	1081.1139	.0010	.9066	2709.9906	295.5052	.0010
.2354	13910.3201	936.9655	.0010	.9851	2868.5538	266.6755	.0010
.2703	11171.5008	720.7429	.0010	1.0810	2818.1019	245.0533	.0010
.3138	9009.2750	648.6687	.0010	1.1769	2645.1239	309.9200	.0010
.3662	4454.1861	317.1274	.0010	1.2292	4684.8235	504.5203	.0010
.4533	1679.3297	201.8087	.0010	1.2379	2882.9687	432.4462	.0010
.5405	1023.4545	194.6013	.0010	1.3425	3243.3396	360.3720	.0010
.6190	641.4613	194.6013	.0010	1.4297	3027.1171	576.5945	.0010
.7323	1232.4697	180.1865	.0010	1.5692	4828.9719	792.8171	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
ALBROW NP 837 594 72	COUNTERS	NOT GIVEN	VS COST PI- ,PI-

DATA AT 1.2930 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
1.4618	2577.8910	119.9010	.0010	1.6491	3592.2810	153.9010	.0010
1.4933	3171.4610	140.5010	.0010	1.6762	3517.6210	147.5010	.0010
1.5226	3443.4910	156.1010	.0010	1.7006	3003.5810	132.3010	.0010
1.5480	3384.3010	165.5010	.0010	1.7213	2709.5310	132.6010	.0010
1.5714	3578.3010	179.8010	.0010	1.7376	2406.5710	131.0010	.0010
1.5923	3671.1410	192.8010	.0010	1.7494	1745.9510	121.4010	.0010
1.6107	3552.3910	200.5010	.0010	1.7571	1921.8710	129.8010	.0010

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REACTION $\pi^- p = p \pi^-$

CONTINUATION OF DATA AT 1.293 GEV/C

	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
			+	-			+	-
	1.6270	3810.1810	214.3010	.0010	1.7612	1540.7410	126.9010	.0010
		REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES
OTT		PL	42B 133 72	COUNTERS		6.0 P/C	DSIG/DT	VS -T $\pi^- p, \pi^-$

DATA AT 1.3000 GEV/C FOLLOW

	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
			+	-			+	-
	.1983	16992.2970	1473.3747	.0010	.9544	2246.5241	278.9579	.0010
	.2216	15245.6305	1077.5958	.0010	1.0133	2631.6828	293.8261	.0010
	.2546	12422.7854	906.9648	.0010	1.0766	2044.7406	278.9579	.0010
	.2935	9315.3192	746.9540	.0010	1.1430	1697.1966	269.0457	.0010
	.3323	6532.8308	598.2714	.0010	1.1989	2102.7976	296.6582	.0010
	.3708	4468.9748	482.8654	.0010	1.2577	2386.7106	317.1985	.0010
	.4077	3306.4180	404.2760	.0010	1.3171	2539.6412	344.8030	.0010
	.4518	2088.6374	316.8425	.0010	1.3770	2348.4779	356.1312	.0010
	.4942	1265.2190	242.8492	.0010	1.4280	2965.8647	421.2683	.0010
	.5340	708.0133	196.1204	.0010	1.4819	3644.1405	594.0233	.0010
	.5737	751.1143	196.8284	.0010	1.5914	4703.3269	324.2786	.0010
	.6203	941.6574	203.9086	.0010	1.6371	4333.0365	346.9270	.0010
	.6585	972.1019	205.3246	.0010	1.6783	3851.5981	370.2914	.0010
	.7006	1071.9317	216.6528	.0010	1.7084	3603.7838	426.2244	.0010
	.7133	1035.1150	196.1204	.0010	1.7334	3066.4024	431.8885	.0010
	.7778	1406.1135	216.6528	.0010	1.7516	2977.9909	455.2529	.0010
	.8281	2005.0919	254.1774	.0010	1.7644	2399.4548	417.7283	.0010
	.8960	2253.5164	266.2136	.0010				
		REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES
APLIN		NP	B32 253 71	COUNTERS		10.0 P/C	DSIG/DOH	VS COST $\pi^- p, \pi^-$

DATA AT 1.3160 GEV/C FOLLOW

	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
			+	-			+	-
	1.4983	2765.3010	121.7910	.0010	1.6880	3384.7910	144.6210	.0010
	1.5302	2754.9010	134.3710	.0010	1.7154	3322.1110	138.8010	.0010
	1.5593	3216.7710	153.4410	.0010	1.7401	2976.5510	136.7910	.0010
	1.5857	3286.7810	160.5210	.0010	1.7509	2845.2610	138.4510	.0010
	1.6094	3628.9410	179.6410	.0010	1.7774	2366.7710	127.6910	.0010
	1.6305	3360.1210	180.9410	.0010	1.7894	2308.8510	132.2310	.0010
	1.6492	3566.5510	197.2710	.0010	1.7972	1890.9310	126.1210	.0010
	1.6657	3041.8810	194.3810	.0010	1.8013	1910.2510	134.8910	.0010
		REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES
UTT		PL	42B 133 72	COUNTERS		6.0 P/C	DSIG/DT	VS -T $\pi^- p, \pi^-$

DATA AT 1.3213 GEV/C FOLLOW

	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
			+	-			+	-
	.0683	57007.3143	6102.9752	.0010	.9513	2704.7274	346.7610	.0010
	.1359	32318.0039	1456.3929	.0010	1.0419	3398.2474	416.1130	.0010
	.2265	16505.7690	1178.9849	.0010	1.1325	1664.4482	277.4090	.0010
	.3171	8460.9396	693.5210	.0010	1.2231	2011.2075	277.4090	.0010
	.4077	3190.1914	416.1130	.0010	1.3137	2843.4314	346.7610	.0010
	.4983	1595.0969	277.4090	.0010	1.4043	3051.4874	416.1130	.0010
	.5889	485.4650	138.7050	.0010	1.4949	3259.5434	485.4650	.0010
	.6795	901.5769	208.0570	.0010	1.5855	3398.2474	554.8170	.0010
	.7701	1178.9849	208.0570	.0010	1.6761	3883.7114	485.4650	.0010
	.8607	1595.0969	277.4090	.0010	1.7667	1872.5035	346.7610	.0010
		REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES
BRODY		PR	3 2619 71	BUBBLE CHAMBER		NOT GIVEN	DSIG/DOH	VS COST $\pi^- p, \pi^-$

DATA AT 1.3300 GEV/C FOLLOW

	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
			+	-			+	-
	.2376	11141.1635	550.1819	.0010	.8862	1905.0322	130.6690	.0010
	.2741	9215.5305	481.4093	.0010	.9319	2228.2335	137.5462	.0010

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REACTION $\pi^- p = p \pi^-$

CONTINUATION OF DATA AT 1.336 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.3198	6478.3807	323.2323	.0010	.9776	2503.3239	123.7917	.0010
.3563	4580.2567	226.9506	.0010	1.0324	2482.6922	123.7917	.0010
.4020	2606.4829	144.4235	.0010	1.0872	2241.9880	123.7917	.0010
.4477	1973.7749	123.7917	.0010	1.1420	2668.3782	137.5462	.0010
.5025	907.7994	75.6509	.0010	1.1877	2510.2012	137.5462	.0010
.5573	302.6005	89.4054	.0010	1.2334	2379.5332	130.6690	.0010
.5665	749.6224	116.9144	.0010	1.2882	2324.5152	116.9144	.0010
.6030	508.9183	68.7736	.0010	1.3522	2297.0061	137.5462	.0010
.6487	515.7956	75.6509	.0010	1.4253	2372.6560	137.5462	.0010
.6944	625.8317	75.6509	.0010	1.4801	2977.8549	165.0553	.0010
.7492	1059.0992	75.6509	.0010	1.5532	2915.9596	165.0553	.0010
.8040	1299.8033	103.1599	.0010	1.6171	3307.9635	192.5643	.0010
.8497	1506.1211	116.9144	.0010				

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
ALBROW NP B37 594 72 COUNTERS NOT GIVEN DSIG/DOOM VS COST π^- , π^-

DATA AT 1.3363 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0621	54954.6725	4026.4105	.0010	.8732	1449.2348	451.1778	.0010
.1149	36695.6852	3752.9701	.0010	.9651	3042.0248	663.0935	.0010
.1509	23946.5452	3026.3528	.0010	1.0570	2611.3561	601.5700	.0010
.2068	16604.6721	2522.4880	.0010	1.1489	2754.9124	622.0781	.0010
.2528	13514.7914	2283.2275	.0010	1.2408	1879.9029	519.5379	.0010
.2987	13514.7914	2283.2275	.0010	1.3327	2023.4591	540.0459	.0010
.3447	8952.2181	1640.6431	.0010	1.4247	2023.4591	540.0459	.0010
.4136	2898.4686	683.6022	.0010	1.5166	5441.4650	1039.0741	.0010
.5055	2157.0853	553.7179	.0010	1.6085	4183.6388	895.5185	.0010
.5974	717.7822	328.1296	.0010	1.7004	3978.5584	875.0105	.0010
.6894	287.1135	198.2453	.0010	1.7923	4395.5552	922.8626	.0010
.7813	1305.6792	430.6697	.0010				

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
BERTANZA NC 19 467 61 BUBBLE CHAMBER NOT GIVEN DSIG/DOOM VS COST π^- , π^-

DATA AT 1.3391 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0691	44999.4465	3409.0519	.0010	.9676	2659.0593	409.0871	.0010
.1382	29317.8123	1977.2492	.0010	1.0598	2181.7922	340.9061	.0010
.2304	15749.8114	1772.7061	.0010	1.1519	2386.3353	409.0871	.0010
.3226	7568.0906	749.9922	.0010	1.2441	3409.0519	477.2681	.0010
.4147	3272.6885	477.2681	.0010	1.3362	2727.2404	409.0871	.0010
.5069	1090.8973	272.7251	.0010	1.4284	2318.1543	409.0871	.0010
.5990	477.2681	136.3630	.0010	1.5206	3136.3265	409.0871	.0010
.6912	545.4491	204.5441	.0010	1.6127	3477.2316	477.2681	.0010
.7833	1431.8024	272.7251	.0010	1.7049	3136.3265	477.2681	.0010
.8755	1840.8871	340.9061	.0010	1.7970	2318.1543	409.0871	.0010

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
BRODY PR 3 2619 71 BUBBLE CHAMBER NOT GIVEN DSIG/DOOM VS COST π^- , π^-

DATA AT 1.3400 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1020	35176.2763	1040.8885	.0010	.9249	2194.8567	255.4544	.0010
.1296	30723.2124	1463.9193	.0010	.9856	2145.8097	257.4980	.0010
.1468	26336.2258	1369.9125	.0010	1.0469	2337.9106	264.9913	.0010
.2103	15429.3879	1352.2011	.0010	1.1129	2369.2462	273.8471	.0010
.2350	12356.4528	935.9823	.0010	1.1822	2286.8199	275.2095	.0010
.2699	10618.0072	809.2774	.0010	1.2590	2174.4204	278.6155	.0010
.3109	8210.6142	675.7604	.0010	1.3019	2303.8502	292.2397	.0010
.3519	5400.6267	525.8944	.0010	1.3641	2546.3606	318.1256	.0010
.3925	3288.1973	400.5519	.0010	1.4267	2948.2740	356.2734	.0010
.4313	2277.9642	331.0686	.0010	1.4802	2882.8779	384.8841	.0010
.4778	1615.1478	271.1222	.0010	1.5181	2365.1590	456.4111	.0010
.5222	1023.1771	211.1758	.0010	1.5856	2352.8972	320.1693	.0010
.5639	570.8542	171.6657	.0010	1.6579	3527.3017	269.0786	.0010
.6056	587.2032	162.8100	.0010	1.7045	3905.3727	320.1693	.0010
.6545	639.6563	169.6221	.0010	1.7466	3681.9362	361.0418	.0010
.6944	771.8109	182.5650	.0010	1.7771	3692.8355	416.2198	.0010
.7353	976.8548	195.5080	.0010	1.8026	3360.4055	457.7735	.0010
.7384	720.7202	185.2899	.0010	1.8211	1974.8262	363.7667	.0010
.7975	1596.7551	224.1188	.0010	1.8341	1953.0275	365.1291	.0010
.8544	1911.4737	242.5114	.0010				

REACTION PI- P = P PI-

REFERENCE		TECHNIQUE			SYSTEMATIC ERROR		MEASURED VARIABLES	
APLIN	NP	B32	253	71	COUNTERS	10.0 P/C	DSIG/DOH	VS COST PI- ,PI-
DATA AT 1.3600 GEV/C FOLLOW								
-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
		+	-				+	-
.0141	71197.7737	8356.5471	.0010	*	1.3871	2784.4022	335.2684	.0010
.0235	55821.7289	4011.1431	.0010	*	1.4512	2509.6389	345.6277	.0010
.0329	54818.9433	4011.1431	.0010	*	1.4549	2346.5175	147.0761	.0010
.0423	51810.5868	4011.1431	.0010	*	1.5059	2237.5498	356.3241	.0010
.0517	51476.3249	4011.1431	.0010	*	1.5448	2059.0540	454.5971	.0010
.0611	47799.4446	3676.8813	.0010	+	1.5527	3369.3588	193.8727	.0010
* .1032	32879.3330	996.7698	.0010	\$	1.5685	1993.5710	93.2910	.0010
* .1311	28727.1324	1399.8896	.0010	\$	1.6013	2132.6610	102.2010	.0010
* .1486	26599.8900	1379.8339	.0010	*	1.6186	3194.2072	378.3854	.0010
* .2168	13771.5894	1264.1793	.0010	\$	1.6310	2180.2210	111.8010	.0010
* .2188	14941.5021	742.0619	.0010	+	1.6457	3122.0950	220.6137	.0010
* .2422	10545.2936	856.3798	.0010	\$	1.6581	2381.4210	125.7010	.0010
* .2781	8748.3020	731.3659	.0010	\$	1.6824	2494.6410	128.9910	.0010
* .3013	8523.6747	534.8197	.0010	*	1.6916	2884.0122	252.7030	.0010
* .3482	6041.4496	576.2684	.0010	\$	1.7040	2650.0910	146.1710	.0010
* .3523	4233.2501	467.2991	.0010	+	1.7134	3021.7265	233.9842	.0010
* .4041	2647.3548	363.0094	.0010	\$	1.7230	2528.9710	145.7010	.0010
* .4432	2426.7404	347.6332	.0010	*	1.7386	3330.5860	297.4940	.0010
* .4439	1632.0345	284.1236	.0010	\$	1.7399	2510.6910	159.4410	.0010
* .4916	1486.7977	259.3882	.0010	\$	1.7627	2648.6610	115.3510	.0010
* .5371	903.8450	200.5581	.0010	+	1.7660	2934.8184	240.6694	.0010
* .5799	486.6862	161.1152	.0010	*	1.7810	2697.4941	326.2406	.0010
* .5863	681.8950	153.7613	.0010	\$	1.7907	2443.1710	107.2010	.0010
* .6226	579.6110	168.4690	.0010	+	1.8064	3476.3226	300.8365	.0010
* .6726	556.8812	178.4968	.0010	*	1.8117	3049.8061	374.3743	.0010
* .7133	687.9119	181.1709	.0010	\$	1.8158	2437.5710	108.4910	.0010
* .7185	808.9145	120.3351	.0010	-	1.8280	2346.5191	153.7614	.0010
* .7458	1000.1124	193.8729	.0010	+	1.8365	3075.2084	320.8922	.0010
* .7584	886.4634	199.2211	.0010	\$	1.8371	2125.7010	105.0210	.0010
* .8090	1574.3743	224.6250	.0010	*	1.8372	1530.9202	322.2294	.0010
* .8581	1510.8641	133.7056	.0010	-	1.8374	2540.3910	133.7057	.0010
* .8669	1659.9453	225.2935	.0010	-	1.8468	2587.1877	127.0205	.0010
* .9387	1865.1821	237.3269	.0010	\$	1.8539	2299.3210	111.4810	.0010
* .9746	1878.5510	133.7056	.0010	+	1.8553	2734.2613	401.1151	.0010
* 1.0007	2426.7420	273.4272	.0010	*	1.8560	1538.2740	322.2294	.0010
* 1.0632	2743.6222	283.4550	.0010	-	1.8562	2092.4801	100.2796	.0010
* 1.1095	2500.2780	160.4466	.0010	-	1.8656	2359.8896	93.5943	.0010
* 1.1305	2131.9230	263.3993	.0010	\$	1.8661	1904.0910	105.6210	.0010
* 1.1956	2060.3910	266.7420	.0010	*	1.8690	2702.1737	422.5080	.0010
* 1.2272	2694.1499	160.4466	.0010	\$	1.8740	2103.0810	114.5610	.0010
* 1.2608	2158.6640	281.4495	.0010	-	1.8750	2413.3715	80.2238	.0010
* 1.3236	2062.3966	283.4550	.0010	\$	1.8782	1733.6510	107.7610	.0010
* 1.3430	2533.7042	167.1318	.0010					

REFERENCES		TECHNIQUES			SYSTEMATIC ERROR		MEASURED VARIABLES	
ABILLON	NP	B46	630	72	SPARK CHAMBERS	3.0 P/C	DSIG/DOH	VS COST PI- ,PI-
* APLIN	NP	B32	253	71	COUNTERS	10.0 P/C	DSIG/DOH	VS COST PI- ,PI-
* DUKE	PR	149	1077	66	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-
* OTT	PL	428	133	72	COUNTERS	6.0 P/C	DSIG/DT	VS -T PI- ,PI-
- ABILLON	PL	328	712	70	SPARK CHAMBERS	7.0 P/C	DSIG/DOH	VS COST PI- ,PI-

DATA AT 1.3610 GEV/C FOLLOW

-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
		+	-				+	-
1.5861	2360.5410	114.9010	.0010	1.7815	2602.7910	128.5510	.0010	
1.6191	2621.7210	126.5110	.0010	1.8095	2562.5310	121.1610	.0010	
1.6491	2526.3610	134.4110	.0010	1.8348	2686.3710	121.9610	.0010	
1.6763	2610.8010	144.2110	.0010	1.8562	2495.1710	123.2210	.0010	
1.7007	2833.1610	150.5510	.0010	1.8730	2544.9510	132.2010	.0010	
1.7224	2540.3810	160.0410	.0010	1.8853	2256.9710	126.5110	.0010	
1.7416	2362.8610	164.8110	.0010	1.8933	2205.8010	132.3910	.0010	
1.7585	2632.8310	176.9910	.0010	1.8975	1929.3610	130.0110	.0010	

REFERENCE		TECHNIQUE			SYSTEMATIC ERROR		MEASURED VARIABLES	
OTT	PL	428	133	72	COUNTERS	6.0 P/C	DSIG/DT	VS -T PI- ,PI-

DATA AT 1.3810 GEV/C FOLLOW

-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
		+	-				+	-
.0719	49178.3085	5245.6858	.0010	1.0061	2426.1295	327.8564	.0010	
.1437	28916.8203	1442.5647	.0010	1.1020	2819.5560	327.8564	.0010	
.2396	14687.9209	1180.2797	.0010	1.1978	2557.2717	327.8564	.0010	
.3354	5966.9677	524.5696	.0010	1.2936	2557.2717	327.8564	.0010	
.4312	2360.5585	327.8564	.0010	1.3894	3278.5548	393.4275	.0010	
.5270	1049.1382	196.7142	.0010	1.4853	2360.5585	327.8564	.0010	
.6229	393.4275	131.1432	.0010	1.5811	2557.2717	327.8564	.0010	
.7187	721.2828	131.1432	.0010	1.6769	2622.8428	327.8564	.0010	
.8145	1508.1358	262.2853	.0010	1.7727	2360.5585	262.2853	.0010	

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REACTION PI- P = P PI-

CONTINUATION OF DATA AT 1.381 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.9103	1770.4188	262.2853	.0010	1.8685	2229.4163	262.2853	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BRODY	PR	3 2619	71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,PI-

DATA AT 1.3900 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
1.6167	1696.9010	94.6210	.0010	1.8139	2356.5110	118.4610	.0010
1.6500	2139.2110	111.0010	.0010	1.8422	2142.1910	112.3810	.0010
1.6802	2159.2410	119.5810	.0010	1.8677	2125.5310	111.9510	.0010
1.7077	2260.1610	130.4310	.0010	1.8892	2327.1010	118.1110	.0010
1.7324	2380.6510	139.9910	.0010	1.9062	2127.1110	121.4710	.0010
1.7543	2264.1010	144.8610	.0010	1.9185	2057.9910	120.1410	.0010
1.7736	2166.0410	153.5710	.0010	1.9266	1977.6410	123.9510	.0010
1.7907	2220.3910	160.3110	.0010	1.9308	1812.3610	123.0310	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
OTT	PL	42B 133	72	COUNTERS	6.0 P/C	DSIG/DT	VS -T PI- ,PI-

DATA AT 1.4000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1060	35733.6739	1042.7460	.0010	.9684	1571.2076	213.3190	.0010
.1346	31745.1775	1480.9825	.0010	1.0327	1993.9769	243.6089	.0010
.1526	26430.1714	1359.8230	.0010	1.0976	2164.1158	250.0536	.0010
.2285	13298.5445	1210.9515	.0010	1.1675	2595.2632	279.6990	.0010
.2553	10780.6182	843.6062	.0010	1.2412	2531.4611	285.4992	.0010
.2930	8742.1741	709.5574	.0010	1.3032	2254.3410	279.6990	.0010
.3372	6343.6739	576.1531	.0010	1.3685	2597.1965	301.6108	.0010
.3814	4421.6781	460.7938	.0010	1.4347	2970.9865	336.4119	.0010
.4251	2715.4667	355.1014	.0010	1.5016	2677.1103	342.8566	.0010
.4669	1407.5134	255.2093	.0010	1.5588	2464.4367	355.1014	.0010
.5167	1161.9721	228.7862	.0010	1.5992	2916.2059	507.8397	.0010
.5645	650.9111	174.6511	.0010	1.6633	2577.8626	329.9673	.0010
.6091	511.7065	165.6286	.0010	1.7579	2827.2707	244.2534	.0010
.6536	583.8866	159.1840	.0010	1.8059	3181.0156	295.8106	.0010
.7058	608.3763	157.8950	.0010	1.8492	2378.7228	297.0995	.0010
.7483	940.2760	190.7628	.0010	1.8806	2858.2050	357.6793	.0010
.7685	838.4505	179.1624	.0010	1.9066	2757.0240	389.9026	.0010
.7952	1157.1278	212.0301	.0010	1.9257	2215.0286	369.9241	.0010
.8340	1015.6785	186.8960	.0010	1.9390	3659.2755	475.6165	.0010
.8940	1349.5115	204.2965	.0010				
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
APLIN	NP	832 253	71	COUNTERS	10.0 P/C	DSIG/DOM	VS COST PI- ,PI-

DATA AT 1.4031 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0733	43959.6030	3084.8858	.0010	1.0265	2570.7381	385.6118	.0010
.1467	27249.8033	1735.2482	.0010	1.1243	2377.9328	321.3433	.0010
.2444	12789.4234	1478.1756	.0010	1.2221	2377.9328	321.3433	.0010
.3422	5462.8189	578.4171	.0010	1.3198	2313.6643	321.3433	.0010
.4400	2570.7381	385.6118	.0010	1.4176	2313.6643	321.3433	.0010
.5377	642.6856	192.8064	.0010	1.5154	2892.0804	385.6118	.0010
.6355	385.6118	128.5379	.0010	1.6131	2827.8120	385.6118	.0010
.7332	771.2219	192.8064	.0010	1.7109	2185.1274	321.3433	.0010
.8310	1478.1756	257.0748	.0010	1.8087	1735.2482	257.0748	.0010
.9288	1606.7125	257.0748	.0010	1.9064	2185.1274	321.3433	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BRODY	PR	3 2619	71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,PI-

REACTION PI- P = P PI-

DATA AT 1.4110 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
1.6505	1953.7910	102.8910	1.8497	1855.3810	108.9310
1.6842	2148.7110	112.0010	1.8783	1935.5410	106.4010
1.7148	2044.0310	114.5610	1.9040	1995.7610	108.3710
1.7426	2124.8710	125.6410	1.9257	2137.0910	113.0310
1.7674	2071.2210	133.3510	1.9429	2081.0110	118.6610
1.7896	1851.9010	136.7210	1.9553	2280.3810	119.6310
1.8091	2031.8210	148.4010	1.9634	2280.1010	129.2410
1.8264	2073.2110	156.7210	1.9677	1813.7910	127.9310

OTT	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
	PL	428 133 72	6.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 1.4300 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.1079	32958.6798	981.3884	.9902	2065.0560	239.7005
.1371	25040.0241	1288.2288	1.0562	2450.9596	266.0549
.1554	23918.4954	1263.1294	1.1229	2295.3432	253.5052
.2378	11893.3622	1121.3177	1.1948	2350.5619	262.2900
.2655	8840.0175	748.5913	1.2706	2677.4819	286.7619
.3046	6737.9409	611.1719	1.3345	2568.2994	290.5268
.3507	5403.2791	520.1865	1.4018	2462.8818	290.5268
.3963	3211.4721	385.2771	1.4701	2802.9790	321.9011
.4417	2033.0542	301.1941	1.5391	1718.6839	279.2321
.4849	1457.1418	253.5052	1.5980	2049.3688	327.5485
.5373	830.1644	190.7566	1.6399	2811.1363	489.4397
.5858	493.2046	149.9700	1.7323	1988.9729	302.4490
.6319	366.4526	139.3028	1.8081	2545.0824	234.0531
.6779	585.4450	156.2449	1.8568	2372.9239	247.2303
.7317	975.7410	192.0116	1.9006	2112.1174	272.3297
.7754	1244.9323	210.8361	1.9325	1967.7957	328.1759
.7850	1102.4931	194.5215	1.9589	2011.7197	345.1181
.8238	1134.7335	212.7186	1.9781	2535.9251	394.6894
.8522	1246.1873	198.2664	1.9917	2265.8513	387.7871
.9137	1609.5014	215.2285			

APLIN	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
	NP	832 253 71	10.0 P/C	DSIG/00M VS COST PI- ,PI-

DATA AT 1.4330 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.0753	29101.2916	7197.0974	.9538	938.7529	782.2944
.1255	23155.8846	3911.4681	1.0542	1564.5878	938.7529
.1577	14707.1126	2972.7145	1.1546	1877.5037	938.7529
.2259	15020.3315	2503.3384	1.2550	3129.1747	1564.5878
.2761	9074.6031	1877.5037	1.3554	1877.5037	938.7529
.3263	5945.4295	1251.6703	1.4558	1564.5878	938.7529
.3765	4057.9253	1251.6703	1.5562	2503.3384	1095.2114
.4518	1877.5037	938.7529	1.6566	1877.5037	938.7529
.5522	1564.5878	938.7529	1.7570	2816.2558	1251.6703
.7028	312.9182	312.9182	1.8574	2816.2558	1251.6703
.8534	1251.6703	938.7529	1.9577	2503.3384	1251.6703

CHRETIEN	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
	PR	108 383 57	NOT GIVEN	DSIG/00M VS COST PI- ,PI-

DATA AT 1.4400 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.0152	69665.6889	9952.2421	* 1.8160	2172.8510	132.6610
.0253	77440.8773	7464.1818	* 1.8385	2188.6010	141.5810
.0354	58780.4252	3732.0914	* 1.8475	2158.3918	242.5868
.0455	54115.3121	3421.0839	* 1.8583	1784.9210	137.3010
.0556	4547.1011	3421.0839	* 1.8758	2092.3110	163.5510
.0657	41052.9956	3732.0914	* 1.8994	1987.9810	113.5210
* .2445	10673.7766	590.9150	* 1.9021	2425.8583	273.6875
* .3354	6238.8076	429.1910	* 1.9283	2119.1710	116.0610
* .4909	1343.5532	230.1465	* 1.9445	2133.5112	286.1278
* .6485	373.2099	186.6054	* 1.9543	2199.9910	114.4010
* .7920	845.9413	130.6240	* 1.9647	1188.0498	105.7436
* .9435	1822.5037	174.1651	* 1.9748	1374.6543	87.0831
* 1.0687	1841.1641	143.0643	* 1.9763	2397.1810	125.5710
* 1.2132	2307.6754	180.3852	* 1.9768	2114.8507	348.3293

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REACTION PI- P = P PI-

CONTINUATION OF DATA AT 1.440 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
* 1.3394	2780.4069	199.0457	.0010	\$ 1.9849	2071.3112	105.7436	.0010
* 1.4607	2276.5747	192.8255	.0010	+ 1.9936	2417.4710	128.4010	.0010
* 1.5788	2382.3172	192.8255	.0010	* 1.9940	2792.8472	640.6764	.0010
* 1.6809	2407.1978	205.2658	.0010	\$ 1.9950	2183.2739	93.3033	.0010
+ 1.6974	2004.0010	105.8910	.0010	\$ 2.0051	2400.9792	87.0831	.0010
+ 1.7316	2252.3810	113.6210	.0010	+ 2.0062	2892.9310	138.8610	.0010
+ 1.7626	2101.4710	118.7110	.0010	+ 2.0144	2660.0110	138.1210	.0010
* 1.7778	2612.4628	242.5868	.0010	\$ 2.0152	2195.7142	68.4227	.0010
+ 1.7908	2221.8110	132.4410	.0010	+ 2.0187	2620.5010	143.3110	.0010

	REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
ABILLON	NP 846 630 72	SPARK CHAMBERS	3.0 P/C	DSIG/DOH VS COST PI-,PI-
* DUKE	PR 149 1077 66	COUNTERS	NOT GIVEN	DSIG/DOH VS COST PI-,PI-
+ OTT	PL 42B 133 72	COUNTERS	6.0 P/C	DSIG/DT VS -T PI-,PI-
\$ ABILLON	PL 32B 712 70	SPARK CHAMBERS	7.0 P/C	DSIG/DOH VS COST PI-,PI-

DATA AT 1.4436 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0760	49976.5970	2976.2749	.0010	1.0640	1922.1775	248.0239	.0010
.1520	29080.6652	1922.1775	.0010	1.1653	2046.1889	248.0239	.0010
.2533	11967.1030	992.0927	.0010	1.2667	3162.2921	372.0354	.0010
.3547	5456.5042	496.0469	.0010	1.3680	1860.1717	248.0239	.0010
.4560	1674.1545	248.0239	.0010	1.4693	2666.2462	310.0297	.0010
.5573	558.0526	124.0125	.0010	1.5707	2046.1889	248.0239	.0010
.6587	558.0526	124.0125	.0010	1.6720	1798.1660	248.0239	.0010
.7600	930.0870	186.0182	.0010	1.7733	1736.1603	248.0239	.0010
.8613	1240.1156	186.0182	.0010	1.8747	1674.1545	248.0239	.0010
.9627	1922.1775	248.0239	.0010	1.9760	1612.1488	248.0239	.0010

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BRODY	PR 3 2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH VS COST PI-,PI-

DATA AT 1.4681 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0776	41646.9049	3703.2980	.0010	1.0867	2246.2626	242.8402	.0010
.1553	21369.8488	971.3579	.0010	1.1902	2185.5528	242.8402	.0010
.2587	11292.0221	971.3579	.0010	1.2937	2185.5528	242.8402	.0010
.3622	5099.6236	424.9696	.0010	1.3972	2489.1019	242.8402	.0010
.4657	2064.1332	242.8402	.0010	1.5007	2003.4234	242.8402	.0010
.5692	728.5181	121.4206	.0010	1.6042	2124.8430	242.8402	.0010
.6727	485.6795	121.4206	.0010	1.7077	2064.1332	242.8402	.0010
.7762	728.5181	121.4206	.0010	1.8112	1153.4873	182.1304	.0010
.8797	1032.7769	182.1304	.0010	1.9147	1214.1971	182.1304	.0010
.9832	1396.3266	182.1304	.0010	2.0182	1274.9069	182.1304	.0010

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BRODY	PR 3 2619 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH VS COST PI-,PI-

DATA AT 1.4800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
1.7240	1416.9210	73.0910	.0010	1.9682	1069.8010	77.0710	.0010
1.7624	1149.7610	75.3210	.0010	1.9975	1097.8510	72.4910	.0010
1.7973	1280.6010	89.0810	.0010	2.0240	1246.8410	79.1510	.0010
1.8289	1400.1410	83.7910	.0010	2.0463	1428.7010	86.0710	.0010
1.8576	1341.3310	87.9310	.0010	2.0638	1671.5610	93.8910	.0010
1.8833	1302.0910	93.7710	.0010	2.0766	1795.5010	97.8810	.0010
1.9062	1077.1010	93.0110	.0010	2.0849	1742.1110	103.9510	.0010
1.9263	976.4310	93.5510	.0010	2.0893	1638.3510	108.9710	.0010
1.9441	1106.4710	100.7910	.0010				

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OTT	PL 42B 133 72	COUNTERS	6.0 P/C	DSIG/DT VS -T PI-,PI-

REACTION PI- P = P PI-

DATA AT 1.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.1120	31473.9590	939.7338	.9574	1260.6615	187.3565
.1424	25362.1493	1247.0679	1.0385	1423.1939	200.9502
.1614	21883.3647	1176.1446	1.1086	1846.9602	229.9105
.1887	17441.2062	759.4706	1.1795	1776.6280	222.2271
.2612	9371.3243	950.9634	1.2562	1869.4192	235.2297
.2915	8631.9496	704.5051	1.3371	1873.5564	241.7310
.3342	5578.1133	531.3342	1.4054	2247.6765	264.7811
.3843	3653.7296	411.3558	1.4775	2469.3116	280.1478
.4341	2442.7154	324.4748	1.5507	2044.3632	270.1003
.4832	933.2325	212.7707	1.6248	1922.6117	280.1478
.5301	708.0513	183.2194	1.6883	1715.1612	283.6939
.5859	575.0702	160.1693	1.7334	1979.3502	383.5775
.6391	531.3342	154.8501	1.8486	1479.9325	261.8259
.6889	617.6242	160.1693	1.9268	1350.4976	180.8552
.7383	598.7113	150.7129	1.9767	1293.7590	192.6758
.7961	641.8563	154.2590	2.0218	1693.8842	244.0951
.8213	819.1643	160.7603	2.0544	1511.8479	280.7388
.8429	833.9400	171.3988	2.0814	1890.1052	320.3376
.8923	1331.5847	190.9027	2.1012	1864.1000	335.7043
.8947	948.5992	189.1296	2.1149	2107.0121	357.5723

APLIN	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
	NP	832 253 71	10.0 P/C	DSIG/DOOM VS COST PI- ,PI-

DATA AT 1.5032 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.0800	44800.5290	3890.5740	1.1192	1886.3388	294.7415
.1599	26172.9315	2122.1312	1.2258	1827.3907	294.7415
.2665	12025.4109	1178.9629	1.3324	1709.4945	294.7415
.3731	4067.4183	471.5857	1.4390	2416.8717	353.6896
.4797	1473.7033	294.7415	1.5455	2829.5083	412.6377
.5862	235.7934	117.8972	1.6521	2240.0274	353.6896
.6928	530.5338	176.8453	1.7587	1473.7033	294.7415
.7994	766.3262	176.8453	1.8653	1296.8591	235.7934
.9060	1296.4591	235.7934	1.9719	1237.9110	235.7934
1.0126	1296.8591	235.7934	2.0785	1296.8591	235.7934

BRDGY	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
	PR	3 2619 71	NOT GIVEN	DSIG/DOOM VS COST PI- ,PI-

DATA AT 1.5050 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.0160	74160.8700	9711.5434	1.8996	1024.1210	56.6010
.0267	53560.6286	4708.6276	1.9255	909.0510	57.3910
.0374	50029.1587	3531.4710	1.9486	909.5110	61.1810
.0480	49440.5804	3531.4710	1.9589	1188.9289	170.6886
.0587	47674.8454	3531.4710	1.9690	883.2310	64.0610
.0694	38257.5922	3531.4710	1.9869	848.3210	65.5010
.0801	35314.7005	4708.6276	2.0112	1051.2510	50.9210
* .2648	9846.9121	553.2644	2.0144	1500.9325	194.2317
* .3651	4355.4792	347.2621	2.0409	1013.2110	50.7510
* .5316	794.5816	211.8891	2.0582	1630.3615	217.7749
* .7003	818.1248	211.8891	2.0676	1218.4410	55.9510
* .8540	953.4975	117.7165	2.0763	1659.7919	147.1456
* 1.0142	1371.3883	123.6023	2.0870	1306.6449	100.0593
* 1.1444	1671.5620	123.6023	2.0901	1401.9810	62.4910
* 1.2992	2171.8536	141.2597	2.0902	1818.7066	241.3180
* 1.4305	2071.7953	147.1455	2.0977	1718.6497	105.9451
* 1.5575	1895.2218	164.8028	2.1078	1527.2710	66.6810
* 1.6803	1955.8512	153.0312	2.1084	1765.7360	100.0593
+ 1.7643	1237.3110	49.4110	2.1084	2118.8816	464.9778
* 1.7870	1655.6762	153.0312	2.1190	1989.3957	88.2877
+ 1.8032	1211.4810	50.3810	2.1207	1748.6410	68.9410
+ 1.8385	1153.0910	52.4610	2.1290	1768.5110	75.4810
+ 1.8705	1025.4610	56.4110	2.1297	1948.1953	76.5162
* 1.8863	1430.2462	164.8028	2.1335	1499.1710	72.6510

ABILLON	REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
* DUKE	NP	846 630 72	3.0 P/C	DSIG/DOOM VS COST PI- ,PI-
+ OTT	PR	149 1077 66	NOT GIVEN	DSIG/DOOM VS COST PI- ,PI-
\$ ABILLON	PL	428 133 72	6.0 P/C	DSIG/DT VS -T PI- ,PI-
	PL	328 712 70	7.0 P/C	DSIG/DOOM VS COST PI- ,PI-

REACTION PI- P = P PI-

DATA AT 1.5073 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0802	44764.6742	4347.2275	.0010	1.1230	1292.4200	293.7326	.0010
.9112	468.9202	76.2004	.0010	1.7687	2004.6297	187.5686	.0010
1.0184	978.8700	117.2307	.0010	1.8759	1465.3739	158.2612	.0010
.3744	4112.2422	528.7179	.0010	1.4439	2526.0916	411.2252	.0010
.4813	1644.8968	293.7326	.0010	1.5509	2232.3600	352.4789	.0010
.5883	704.9563	176.2400	.0010	1.6578	2232.3600	352.4789	.0010
.6952	587.4642	176.2400	.0010	1.7648	1527.4042	293.7326	.0010
.8022	998.6884	234.9863	.0010	1.8717	1116.1811	234.9863	.0010
.9091	998.6884	234.9863	.0010	1.9787	881.1958	234.9863	.0010
1.0161	1527.4042	293.7326	.0010	2.0856	1292.4200	234.9863	.0010

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BRODY	PR	3 2619 71	BUBBLE CHAMBER	NOT GIVEN	OSIG/00M VS COST PI- ,PI-

DATA AT 1.5100 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.3752	3516.8946	234.4605	.0010	1.2327	1787.7545	152.3997	.0010
.4824	2403.2112	205.1531	.0010	1.3399	2344.5962	175.8456	.0010
.5896	1348.1438	152.3997	.0010	1.4471	2069.1061	193.4301	.0010
.6968	967.1468	146.5382	.0010	1.5543	2139.4440	193.4301	.0010
.8040	468.9202	76.2004	.0010	1.6615	2110.1366	193.4301	.0010
1.1256	1142.9918	134.8152	.0010	1.9831	996.4543	205.1531	.0010

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
LAI	PRL	7 125 61	SPARK CHAMBERS	NOT GIVEN	OSIG/00M VS COST PI- ,PI-

DATA AT 1.5230 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
1.7934	1364.7110	65.3610	.0010	2.0423	943.9710	60.6910	.0010
1.8327	1224.7810	65.1510	.0010	2.0722	1015.7710	67.6610	.0010
1.8683	1163.9510	67.5010	.0010	2.0990	1854.9610	67.5710	.0010
1.9005	1165.8310	72.2210	.0010	2.1217	1336.9710	74.2010	.0010
1.9298	983.1510	72.1310	.0010	2.1395	1411.7410	80.3810	.0010
1.9560	966.3410	73.8610	.0010	2.1525	1680.9810	86.5510	.0010
1.9792	807.2710	73.1810	.0010	2.1609	1941.3110	98.8310	.0010
1.9998	834.7410	78.2310	.0010	2.1653	1656.5110	95.5910	.0010
2.0179	733.3810	77.8010	.0010				

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OTT	PL	428 133 72	COUNTERS	6.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 1.5500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
1.8372	1230.5410	57.2210	.0010	2.0890	784.7710	55.3610	.0010
1.8770	1087.3110	56.5910	.0010	2.1192	886.4510	56.6610	.0010
1.9130	1036.3910	57.8510	.0010	2.1463	976.4410	60.1810	.0010
1.9457	1009.5910	63.0210	.0010	2.1691	1371.1310	69.4110	.0010
1.9753	943.9410	62.8310	.0010	2.1871	1533.1110	75.1310	.0010
2.0018	746.8110	63.9010	.0010	2.2002	1679.6810	80.3110	.0010
2.0253	737.0910	67.6110	.0010	2.2087	1759.6110	85.9510	.0010
2.0460	779.6610	73.2110	.0010	2.2132	1676.3410	90.4210	.0010
2.0643	713.4510	71.3510	.0010				

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OTT	PL	428 133 72	COUNTERS	6.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 1.5600 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1155	29958.7219	847.6982	.0010	.9958	1271.5467	169.4279	.0010

TURN TO NEXT PAGE

REACTION PI- P = P PI-

CONTINUATION OF DATA AT 1.560 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1469	25833.9378	1181.4860	.0010	1.0800	1520.9025	180.6855	.0010
.1666	20838.3785	1062.7183	.0010	1.1537	1591.2625	189.1287	.0010
.1948	15833.8132	661.9478	.0010	1.2282	1730.2939	224.5901	.0010
.2815	8299.1025	787.4700	.0010	1.3089	1928.4276	206.0151	.0010
.3140	6176.4824	525.7308	.0010	1.3942	1820.9175	206.0151	.0010
.3538	4560.4541	424.4125	.0010	1.4663	2105.7348	224.0272	.0010
.4135	3306.9205	343.9206	.0010	1.5425	1937.4337	221.7757	.0010
.4666	2135.5674	266.8061	.0010	1.5869	1558.0526	222.9014	.0010
.5191	1053.8440	189.1287	.0010	1.6200	1935.1822	233.0333	.0010
.5691	660.2591	153.1043	.0010	1.7659	1607.5861	246.5424	.0010
.6285	512.6720	134.5293	.0010	1.8138	1371.7394	299.4531	.0010
.6852	498.1497	128.9005	.0010	1.9485	1064.4069	205.4522	.0010
.7379	482.9520	131.1520	.0010	2.0287	921.4354	144.0983	.0010
.7903	688.9660	143.5354	.0010	2.0798	606.7856	133.4035	.0010
.8514	905.1119	157.6074	.0010	2.1259	1014.8735	182.9370	.0010
.8525	1122.9464	163.2362	.0010	2.1593	1117.8805	223.4643	.0010
.9011	1151.8533	177.8711	.0010	2.1869	1104.3714	233.0333	.0010
.9268	1211.3186	165.4877	.0010	2.2092	1865.3851	309.0221	.0010
.9556	1034.0114	172.2423	.0010	2.2210	1433.0933	271.8720	.0010

APLIN	REFERENCE NP	B32	253	71	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
					COUNTERS	10.0 P/C	DSIG/DOOM VS COST PI- ,PI-

DATA AT 1.5657 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0841	41242.2004	2577.6387	.0010	1.1774	1400.8917	168.1079	.0010
.1682	21741.8186	1288.8204	.0010	1.2895	1849.1756	224.1435	.0010
.2803	8741.5549	504.3216	.0010	1.4016	2017.2824	224.1435	.0010
.3925	3586.2800	336.2148	.0010	1.5137	1681.0687	224.1435	.0010
.5046	1084.6779	168.1079	.0010	1.6259	1512.9618	168.1079	.0010
.6167	560.3573	112.0723	.0010	1.7380	1905.2112	224.1435	.0010
.7288	672.4280	112.0723	.0010	1.8501	1288.8204	168.1079	.0010
.8410	952.6067	168.1079	.0010	1.9623	1008.6417	168.1079	.0010
.9531	1176.7492	168.1079	.0010	2.0744	784.4998	112.0723	.0010
1.0652	1120.7135	168.1079	.0010	2.1865	1232.7848	168.1079	.0010

BRODY	REFERENCE PR	3	2619	71	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
					BUBBLE CHAMBER	NOT GIVEN	DSIG/DOOM VS COST PI- ,PI-

DATA AT 1.5790 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2911	7962.5974	693.1241	.0010	1.6690	1951.8342	210.7103	.0010
.4002	3105.1910	426.9645	.0010	1.7976	1907.4743	188.5304	.0010
.5806	371.5148	316.0650	.0010	1.9079	1402.8818	177.4404	.0010
.7623	587.7690	266.1601	.0010	2.0112	1070.1827	199.6203	.0010
.9267	853.9285	155.2605	.0010	2.0855	726.3938	194.0753	.0010
1.0976	1502.6905	182.9854	.0010	2.1425	1031.3680	227.3453	.0010
1.2360	1791.0297	171.8954	.0010	2.1874	1630.2251	304.9750	.0010
1.3986	1541.5054	166.3504	.0010	2.2205	942.6481	299.4301	.0010
1.5357	2073.8239	205.1653	.0010	2.2390	1108.9978	554.4992	.0010

DUKE	REFERENCE PR	149	1077	66	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
					COUNTERS	NOT GIVEN	DSIG/DOOM VS COST PI- ,PI-

DATA AT 1.5800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0284	49034.6642	4155.4809	.0010	* 2.1410	576.0810	39.2610	.0010
.0510	41554.8003	3047.3529	.0010	* 2.1715	746.4710	41.6810	.0010
.0624	4046.6723	3047.3529	.0010	* 2.1989	823.2810	44.3010	.0010
.0737	35460.6964	3047.3529	.0010	+ 2.2057	975.1536	94.1919	.0010
.0851	41000.7363	4155.4809	.0010	+ 2.2170	1318.6733	83.1106	.0010
* 1.8860	1011.4210	43.8310	.0010	* 2.2220	1038.5910	52.1010	.0010
* 1.9264	946.5310	44.5010	.0010	+ 2.2284	1667.7336	88.6512	.0010
* 1.9629	736.6210	43.2310	.0010	+ 2.2397	1833.9528	77.5700	.0010
* 1.9960	697.6810	44.1410	.0010	* 2.2401	1215.3710	59.2510	.0010
* 2.0260	654.7610	43.6510	.0010	+ 2.2510	1966.9282	72.0293	.0010
* 2.0528	614.5410	45.8510	.0010	* 2.2533	1395.9510	61.4610	.0010
* 2.0766	463.4410	44.0510	.0010	* 2.2619	1392.7710	66.7510	.0010
* 2.0975	469.3410	47.0410	.0010	+ 2.2624	1761.9245	55.4074	.0010
* 2.1160	452.0010	49.1910	.0010	* 2.2664	1443.8910	69.2910	.0010

	REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES		REACTION $PI - P = P PI -$
ABILLON	NP	B46	630	72	SPARK CHAMBERS	3.0 P/C	DSIG/JOM	VS COST	$PI - , PI -$
* OTT	PL	42B	133	72	COUNTERS	6.0 P/C	DSIG/DT	VS -T	$PI - , PI -$
+ ABILLON	PL	32B	712	70	SPARK CHAMBERS	7.0 P/C	DSIG/DOH	VS COST	$PI - , PI -$

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DATA AT 1.5900 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.1714	15777.9764	824.6339	.0010	* 1.9796	839.2710	49.2510	.0010
.2857	8576.1828	604.7318	.0010	* 2.0001	769.6583	164.9276	.0010
.4000	2803.7527	329.8541	.0010	* 2.0128	764.0410	50.3610	.0010
.5143	1319.4136	219.9031	.0010	* 2.0429	707.0710	51.5110	.0010
.6286	274.8786	109.9520	.0010	* 2.0698	647.0910	52.4610	.0010
.7429	714.6828	164.9276	.0010	* 2.0937	566.6810	52.9710	.0010
.8572	879.6094	219.9031	.0010	* 2.1144	549.7562	164.9276	.0010
.9715	1154.4870	219.9031	.0010	* 2.1147	498.6710	53.6210	.0010
1.0858	1374.3891	219.9031	.0010	* 2.1333	416.2610	54.8910	.0010
1.2001	1209.4625	219.9031	.0010	* 2.1584	619.5010	45.0010	.0010
1.3144	879.6094	219.9031	.0010	* 2.1890	814.2010	47.9210	.0010
1.4286	1374.3891	219.9031	.0010	* 2.2164	911.5910	50.3410	.0010
1.5429	1374.3891	219.9031	.0010	* 2.2287	714.6828	164.9276	.0010
1.6572	1374.3891	219.9031	.0010	* 2.2396	1056.3510	57.8310	.0010
1.7715	1154.4870	219.9031	.0010	* 2.2578	1311.5610	66.4710	.0010
1.8858	1154.4870	219.9031	.0010	* 2.2711	1526.1110	73.1010	.0010
* 1.9023	1060.2210	49.9210	.0010	* 2.2796	1585.6110	76.9310	.0010
* 1.9429	1106.0210	52.8410	.0010	* 2.2842	1507.3010	79.1310	.0010

ALITTI	NC	29	515	63	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOOM	VS COST PI-	PI-
* OTT	PL	428	133	72	COUNTERS	6.0 P/C	DSIG/DT	VS -T PI-	PI-

DATA AT 1.6000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.1178	28888.6118	850.4522	.0010	1.0200	1371.9604	177.8375	.0010
.1499	24345.5986	1163.0298	.0010	1.1073	1199.5791	169.1093	.0010
.1700	21009.8006	1095.3865	.0010	1.1836	1365.9598	184.3836	.0010
.1989	16145.4816	690.6176	.0010	1.2607	1435.2397	181.6561	.0010
.2951	6119.5402	696.0727	.0010	1.3442	1493.0638	190.9297	.0010
.3291	5193.8085	497.5068	.0010	1.4323	1610.3486	202.3855	.0010
.3770	4406.0910	428.7724	.0010	1.5069	1692.7207	211.1136	.0010
.4330	2891.2078	333.3080	.0010	1.5858	1656.1715	214.9322	.0010
.4885	1616.8948	241.6622	.0010	1.6662	1749.4539	230.7520	.0010
.5432	882.0918	184.9291	.0010	1.7477	1783.8210	244.3898	.0010
.5953	553.6944	146.7434	.0010	1.8177	1533.4316	253.1180	.0010
.6571	627.3383	148.9254	.0010	1.8674	1355.5951	319.1248	.0010
.7160	656.7959	146.7434	.0010	1.9554	910.4584	161.4722	.0010
.7707	696.6182	152.7440	.0010	2.0152	690.6176	178.3830	.0010
.8252	921.9141	171.2914	.0010	2.0967	681.8894	132.0146	.0010
.8733	957.3723	163.6542	.0010	2.1488	493.6882	125.4685	.0010
.8885	834.0869	162.5632	.0010	2.1956	489.3241	162.0177	.0010
.9399	1160.8478	184.9291	.0010	2.2293	649.7943	184.9291	.0010
.9438	1233.9462	172.9279	.0010	2.2573	1088.8404	250.9359	.0010
.9963	1210.4893	187.1112	.0010	2.2778	1698.1758	308.2146	.0010

APLIN	NP	832	253	71	COUNTERS	10.0 P/C	DSIG/DOOM	VS COST PI-	PI-
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DATA AT 1.6015 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0865	39231.1646	2342.9734	.0010	1.2108	1362.1949	163.4643	.0010
.1730	20866.8107	1198.7316	.0010	1.3261	1743.6081	163.4643	.0010
.2883	9317.4020	817.3174	.0010	1.4414	1588.1449	163.4643	.0010
.4036	3160.2898	272.4398	.0010	1.5567	1743.6081	163.4643	.0010
.5189	926.2929	108.9765	.0010	1.6721	1416.6816	163.4643	.0010
.6342	599.3663	108.9765	.0010	1.7874	1416.6816	163.4643	.0010
.7495	653.8535	108.9765	.0010	1.9027	1253.2194	163.4643	.0010
.8649	708.3418	108.9765	.0010	2.0180	653.8535	108.9765	.0010
.9802	1144.2439	163.4643	.0010	2.1333	599.3663	108.9765	.0010
1.0955	1580.1449	163.4643	.0010	2.2486	926.2929	108.9765	.0010

BRODY	PR	3	2619	71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOOM	VS COST PI-	PI-
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REACTION PI- P = P PI-

DATA AT 1.6400 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1202	26414.5188	736.5744	.0010	1.0445	1607.5513	141.8126	.0010
.1528	23339.1131	1042.4217	.0010	1.1347	1081.0495	141.8126	.0010
.1733	17397.3150	889.4981	.0010	1.2131	1399.0672	160.8619	.0010
.2028	13920.2863	571.4804	.0010	1.2925	1404.3587	158.7453	.0010
.2377	11580.9248	506.3952	.0010	1.3786	1160.9508	152.3955	.0010
.3093	5474.5618	574.6553	.0010	1.4698	1383.1928	166.1533	.0010
.3448	4845.9345	418.5567	.0010	1.5470	1234.5023	161.9202	.0010
.3948	3459.5678	331.7765	.0010	1.6287	1357.2645	173.0323	.0010
.4532	1685.8652	224.8887	.0010	1.7119	1625.5424	193.6690	.0010
.5112	1009.6146	169.3282	.0010	1.7965	1438.7533	192.6107	.0010
.5682	1009.6146	164.0367	.0010	1.8690	1192.1705	192.0816	.0010
.6223	649.2651	138.7005	.0010	1.9207	1057.7670	235.4717	.0010
.6866	620.1620	123.8215	.0010	2.0216	936.5922	143.9291	.0010
.7477	492.1082	111.6511	.0010	2.0824	503.7495	136.5211	.0010
.8046	687.4624	126.9964	.0010	2.1651	630.2158	108.4763	.0010
.8610	932.3590	143.4000	.0010	2.2180	462.4760	106.8888	.0010
.8935	821.7672	127.5256	.0010	2.2654	553.4894	140.7543	.0010
.9267	1064.1168	151.8664	.0010	2.2997	778.9062	169.3282	.0010
.9603	906.9599	132.2879	.0010	2.3281	1274.7175	238.1174	.0010
.9799	1019.6684	149.7498	.0010	2.3487	1484.2599	262.4582	.0010
1.0383	1101.1571	158.7453	.0010	2.3631	1233.4440	237.0591	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
APLIN NP B32 253 71	COUNTERS	10.0 P/C	DSIG/DOH VS COST PI- ,PI-

DATA AT 1.6670 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.0287	698.4310	36.3810	.0010	2.2925	282.6910	30.0410	.0010
2.0705	683.2610	36.5710	.0010	2.3239	400.2510	31.7410	.0010
2.1084	569.4610	36.4710	.0010	2.3520	567.3810	36.1310	.0010
2.1427	401.4110	34.6710	.0010	2.3757	718.7110	40.4710	.0010
2.1737	335.4310	32.3410	.0010	2.3944	921.6310	46.1410	.0010
2.2014	300.1410	33.8310	.0010	2.4079	1065.0610	52.4910	.0010
2.2260	249.3410	33.6710	.0010	2.4167	978.8510	54.5610	.0010
2.2477	303.2410	39.0610	.0010	2.4213	1001.1210	56.2610	.0010
2.2627	291.4710	39.4710	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OTT PL 42B 133 72	COUNTERS	6.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 1.6700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1217	26582.1781	732.2425	.0010	1.0714	1144.6781	154.7291	.0010
.1547	22874.9145	1016.3418	.0010	1.1540	1405.4987	152.6591	.0010
.1755	17834.6092	893.1804	.0010	1.2340	1651.8136	168.1837	.0010
.2053	14131.4854	568.7172	.0010	1.3153	1501.7429	157.3165	.0010
.2408	11461.7796	496.2693	.0010	1.4035	1304.5811	152.6591	.0010
.3208	6145.1371	588.3816	.0010	1.4968	1577.8132	170.2536	.0010
.3576	4617.0835	397.4296	.0010	1.5760	1445.8545	166.1137	.0010
.4093	2815.1202	292.8976	.0010	1.6599	1314.4133	164.0438	.0010
.4697	1428.7775	203.3727	.0010	1.7454	1153.4754	164.0438	.0010
.5294	1153.3076	177.4984	.0010	1.8322	1304.0636	181.1208	.0010
.5882	812.9702	146.4493	.0010	1.9069	1280.7767	188.8631	.0010
.6440	733.7949	135.0646	.0010	1.9601	1036.0063	224.5896	.0010
.7102	793.8232	135.5821	.0010	2.0721	898.3552	137.1346	.0010
.7732	722.9278	126.2674	.0010	2.1336	601.3187	143.3444	.0010
.8316	837.2920	141.7919	.0010	2.2171	702.2293	112.2953	.0010
.8895	983.7403	145.9318	.0010	2.2704	230.2819	88.4910	.0010
.9076	880.7607	129.3723	.0010	2.3182	358.6182	114.3652	.0010
.9570	1157.0978	155.2465	.0010	2.3527	174.3935	109.1904	.0010
.9879	1067.6554	137.6520	.0010	2.3813	912.8448	196.1279	.0010
1.0115	1179.3497	154.7291	.0010	2.4020	1193.8392	234.9393	.0010
1.0617	1251.1123	146.9668	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
APLIN NP B32 253 71	COUNTERS	10.0 P/C	DSIG/DOH VS COST PI- ,PI-

DATA AT 1.7000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0621	35087.2825	4556.7908	.0010	1.3651	1215.1449	303.7870	.0010
.1241	24100.3560	3392.2779	.0010	* 1.3924	916.4221	192.3988	.0010

TURN TO NEXT PAGE

REACTION PI- P = P PI-

CONTINUATION OF DATA AT 1.700 GEV/C

	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	.1862	15239.9314	2126.5029	.0010		1.4271	961.9900	253.1560	.0010
*	.2147	12455.2265	1012.6210	.0010		1.4892	1113.8830	253.1560	.0010
	.2482	10429.9866	1468.2999	.0010		1.5512	1316.4069	253.1560	.0010
*	.2544	9270.5367	445.5538	.0010	*	1.5587	1164.5140	248.0929	.0010
*	.2991	7250.3599	349.3549	.0010		1.6133	810.0970	202.5250	.0010
	.3103	6632.6617	1012.6210	.0010		1.6753	1367.0379	303.7870	.0010
*	.3425	5458.0226	232.9036	.0010	*	1.7026	1564.4988	248.0929	.0010
	.3723	4303.6358	708.8390	.0010		1.7374	1316.4069	253.1560	.0010
*	.3897	3447.9720	197.4619	.0010		1.7994	1569.5619	303.7870	.0010
	.4344	2632.8129	455.6800	.0010		1.8615	810.0970	202.5250	.0010
*	.4381	2688.5070	151.8940	.0010		1.9235	961.9900	253.1560	.0010
*	.4890	1513.8678	111.3892	.0010		1.9856	759.4660	202.5250	.0010
	.4964	1518.9309	303.7870	.0010		1.9856	759.4660	202.5250	.0010
*	.5398	1245.5235	106.3261	.0010	+	2.0374	614.8410	32.0910	.0010
	.5584	1154.5140	253.1560	.0010	+	2.0831	457.9010	28.8310	.0010
*	.5907	941.7376	121.5154	.0010		2.1097	658.2040	202.5250	.0010
	.6205	556.9420	151.8940	.0010	+	2.1256	408.1610	28.7610	.0010
*	.6453	622.7623	101.2630	.0010	+	2.1640	336.6510	29.0910	.0010
	.6825	759.4660	202.5250	.0010		2.1717	303.7870	101.2630	.0010
*	.7049	789.8445	106.3261	.0010	+	2.1987	261.9310	27.7410	.0010
	.7446	658.2040	202.5250	.0010	+	2.2301	178.4310	24.9110	.0010
*	.7756	891.1066	81.0106	.0010		2.2338	303.7870	101.2630	.0010
	.8066	911.3590	455.6800	.0010	+	2.2581	172.6510	27.3410	.0010
*	.8512	1245.5235	101.2630	.0010	+	2.2830	157.1210	27.6310	.0010
	.8687	455.6800	151.8940	.0010		2.2958	202.5250	50.6320	.0010
*	.9159	1022.7472	121.5154	.0010	+	2.3049	174.9710	29.7810	.0010
	.9307	961.9900	253.1560	.0010	+	2.3241	134.9310	29.6910	.0010
*	.9680	1288.0283	126.5785	.0010	+	2.3502	247.3310	26.2910	.0010
	.9928	860.7280	202.5250	.0010		2.3579	202.5250	101.2630	.0010
*	1.0213	1093.6306	106.3261	.0010	+	2.3819	211.7110	24.5310	.0010
	1.0548	810.0970	202.5250	.0010	+	2.4103	353.1110	30.4910	.0010
*	1.0735	1205.0187	111.3892	.0010		2.4199	556.9420	151.8940	.0010
	1.1169	1357.0379	303.7870	.0010	+	2.4362	465.0410	33.8710	.0010
*	1.1752	1417.6689	131.6416	.0010	+	2.4531	577.0610	38.2310	.0010
	1.1789	1721.4549	354.4180	.0010	+	2.4667	654.0310	41.6810	.0010
*	1.2249	1103.7568	121.5154	.0010	+	2.4756	725.3210	44.8210	.0010
	1.2410	1367.0379	303.7870	.0010	+	2.4803	687.0110	46.4910	.0010
	1.3330	1113.8830	253.1560	.0010		2.4820	455.6800	151.8940	.0010
*	1.3080	957.0531	156.9571	.0010					

REFERENCES

ALLEN	NC	58A	701	68
* HILL	PR	1	729	70
+ OTT	PL	42B	133	72

TECHNIQUES

BUBBLE CHAMBER
COUNTERS
COUNTERS

SYSTEMATIC ERROR

NOT GIVEN
5.0 P/C
6.0 P/C

MEASURED VARIABLES

VS COST PI- ,PI-
VS COST PI- ,PI-
VS -T PI- ,PI-

DATA AT 1.7100 GEV/C FOLLOW

	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	.1770	17870.0010	990.0010	.0010		.2990	6630.0010	280.0010	.0010
	.1880	16100.0010	910.0010	.0010		.3120	5950.0010	260.0010	.0010
	.1990	14610.0010	850.0010	.0010		.3250	5640.0010	260.0010	.0010
	.2110	14150.0010	820.0010	.0010		.3390	4980.0010	240.0010	.0010
	.2350	11880.0010	730.0010	.0010		.3670	4160.0010	230.0010	.0010
	.2590	9360.0010	340.0010	.0010					

REFERENCE

FELLINGER	PR	2	1777	70
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TECHNIQUE

COUNTERS

SYSTEMATIC ERROR

5.0 P/C

MEASURED VARIABLES

VS -T PI- ,PI-

DATA AT 1.7160 GEV/C FOLLOW

	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	2.0636	583.7310	31.2110	.0010		2.3520	138.9910	26.9610	.0010
	2.1096	485.8510	29.2210	.0010		2.3782	173.5610	23.9410	.0010
	2.1523	410.1510	28.2010	.0010		2.4100	301.9510	27.3310	.0010
	2.1909	330.1310	28.0210	.0010		2.4386	363.5110	30.5010	.0010
	2.2259	244.9910	27.1610	.0010		2.4626	446.8210	34.3210	.0010
	2.2575	151.5610	26.9710	.0010		2.4816	559.1810	38.2310	.0010
	2.2856	148.7710	25.7310	.0010		2.4953	598.1010	39.4610	.0010
	2.3106	145.1910	27.8610	.0010		2.5042	692.9210	44.1410	.0010
	2.3326	107.0210	25.5110	.0010		2.5089	596.0310	42.4110	.0010

REFERENCE

OTT	PL	42B	133	72
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TECHNIQUE

COUNTERS

SYSTEMATIC ERROR

6.0 P/C

MEASURED VARIABLES

VS -T PI- ,PI-

REACTION PI- P = P PI-

DATA AT 1.7200 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0881	31296.3239	2545.4915	.0010	.7302	519.0815	209.6296	.0010
.1133	29497.7382	2495.5811	.0010	.8309	519.0815	219.6119	.0010
.1385	23857.7272	2196.1103	.0010	.9819	653.8428	164.7092	.0010
.1637	19066.2305	2046.3755	.0010	1.1833	593.9488	279.5059	.0010
.1888	14174.8911	1696.9943	.0010	1.2840	733.7013	324.4263	.0010
.2140	13476.1323	1746.9059	.0010	1.3848	588.9578	214.6208	.0010
.2392	16570.3504	1946.5523	.0010	1.4855	813.5690	259.5412	.0010
.2644	11331.7002	1397.5247	.0010	1.5862	933.3478	239.5766	.0010
.2895	8584.7929	1297.7015	.0010	1.6869	963.2947	229.5943	.0010
.3147	6638.2429	1197.8791	.0010	1.7876	1232.8174	259.5412	.0010
.3399	2435.6860	748.6749	.0010	1.8883	973.2771	229.5943	.0010
.3651	4991.1612	1098.0560	.0010	1.9890	648.8517	199.6473	.0010
.3903	3174.3777	903.4009	.0010	2.0897	948.3213	234.5854	.0010
.4154	2615.3677	843.5069	.0010	2.1904	414.2670	169.7003	.0010
.4532	1212.3528	494.1257	.0010	2.2911	94.8329	129.7711	.0010
.5287	798.5864	289.4882	.0010	2.3918	34.9391	129.7711	.0010
.6294	519.0815	204.6385	.0010				

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BUSZA	PR	180	1339 69	SPARK CHAMBERS	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

DATA AT 1.7300 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	62048.2204	6204.8229	.0010	1.1344	1128.4658	140.2538	.0010
.1250	26260.4727	690.8574	.0010	1.1945	1361.8900	137.2802	.0010
.1591	21590.0063	929.2375	.0010	1.2781	1287.5511	138.7670	.0010
.1804	17562.8189	839.0396	.0010	1.3630	1179.5119	130.3449	.0010
.2112	13532.1626	520.8690	.0010	1.4553	1104.1818	129.3507	.0010
.2477	11543.3487	467.3450	.0010	1.5532	1144.3248	134.3067	.0010
.3423	5185.8881	487.1687	.0010	1.6361	1137.8821	135.7934	.0010
.3814	3503.3466	312.2245	.0010	1.7242	1098.2347	137.2802	.0010
.4363	2181.1049	232.4340	.0010	1.8140	1074.9418	140.7494	.0010
.5004	1585.2594	186.8395	.0010	1.9054	1036.7312	144.2185	.0010
.5637	887.1121	138.7670	.0010	2.0002	1022.9046	203.1941	.0010
.6259	710.1855	123.8992	.0010	2.0981	1033.8076	154.1304	.0010
.6849	625.4391	114.4829	.0010	2.1716	312.2245	87.2253	.0010
.7549	609.0846	110.0226	.0010	2.2345	224.5045	95.1548	.0010
.8212	670.5381	111.0438	.0010	2.3201	256.2225	78.8003	.0010
.8827	855.8016	125.8816	.0010	2.3745	261.6740	83.7562	.0010
.9381	1041.7371	123.8992	.0010	2.4233	412.8298	104.0755	.0010
.9436	1128.4658	137.7758	.0010	2.4586	262.1696	121.9168	.0010
1.0145	1054.1269	135.2978	.0010	2.4876	702.2560	179.9012	.0010
1.0215	1210.2386	130.3449	.0010	2.5089	1105.6686	210.6279	.0010
1.0717	1227.5844	142.7317	.0010	2.5236	1179.0163	210.6279	.0010
1.0984	1299.9409	135.2978	.0010				

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
APLIN	NP	832	253 71	COUNTERS	10.0 P/C	DSIG/DOH	VS COST PI- ,PI-

DATA AT 1.7320 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1651	15292.2237	890.8101	.0010	1.0792	1083.8187	94.0308	.0010
.2158	12619.7965	791.8313	.0010	1.1680	1356.0104	79.1840	.0010
.2666	8561.6662	544.3843	.0010	1.2696	1212.4912	98.9798	.0010
.3174	5097.4086	346.4268	.0010	1.3331	1123.4102	79.1840	.0010
.3809	3211.8627	197.9586	.0010	1.4347	1202.5933	79.1840	.0010
.4444	2276.5131	158.3671	.0010	1.5362	1113.5124	79.1840	.0010
.5079	1430.2445	113.8266	.0010	1.6378	1118.4613	84.1330	.0010
.5840	767.0866	84.1330	.0010	1.7140	1108.5634	108.8777	.0010
.6348	529.5375	113.8266	.0010	1.7901	920.5037	108.8777	.0010
.7110	737.3930	64.3372	.0010	1.8790	1113.5124	98.9798	.0010
.8126	786.8824	84.1330	.0010	1.9552	1187.7465	143.5202	.0010
.8760	900.7080	113.8266	.0010	2.0314	816.5760	103.9287	.0010
.8887	1435.1934	148.4692	.0010	2.0949	678.0057	103.9287	.0010
.9522	1192.6954	94.0308	.0010	2.1710	475.0992	108.8777	.0010
1.0157	1311.4699	98.9798	.0010	2.2980	54.4393	118.7755	.0010

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
ALBROW	NP	837	594 72	COUNTERS	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-

REACTION PI- P = P PI-

DATA AT 1.7600 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	63186.9249	6318.6934	.0010	1.1154	1158.9132	134.9162	.0010
.1265	25384.4499	690.5923	.0010	1.1682	1222.4884	150.4461	.0010
.1609	20351.0409	910.9216	.0010	1.2134	1114.2650	132.4897	.0010
.1826	16292.2300	815.8015	.0010	1.2987	1271.0191	141.2252	.0010
.2138	12893.1424	518.7938	.0010	1.3856	1381.6690	142.6812	.0010
.2507	10657.0408	457.6452	.0010	1.4798	1129.7948	135.4016	.0010
.3542	3875.6598	435.3211	.0010	1.5799	1027.8805	133.9456	.0010
.3945	3291.3506	311.0826	.0010	1.6650	918.6865	130.5485	.0010
.4512	2474.5795	253.3311	.0010	1.7551	990.0265	135.4016	.0010
.5172	1392.3457	184.4175	.0010	1.8473	1072.5287	146.0783	.0010
.5825	631.3849	124.7248	.0010	1.9410	989.0559	150.4461	.0010
.6466	654.8711	123.7542	.0010	2.0217	827.9341	153.3579	.0010
.7072	610.5167	114.5334	.0010	2.0793	966.6294	209.1682	.0010
.7790	699.8132	118.9011	.0010	2.2225	380.9667	97.0623	.0010
.8473	715.3430	118.4158	.0010	2.2860	630.8996	131.5191	.0010
.9103	872.6970	130.5485	.0010	2.3723	220.8155	74.2529	.0010
.9519	941.0106	127.1513	.0010	2.4272	213.5359	84.4444	.0010
.9728	1242.8713	148.5048	.0010	2.4764	90.2680	86.3856	.0010
1.0369	1099.7058	132.9750	.0010	2.5118	469.2925	132.9750	.0010
1.0495	1339.4473	153.8432	.0010	2.5411	371.7459	137.3428	.0010
1.1040	1209.3851	146.0783	.0010	2.5624	295.5527	151.9020	.0010

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
APLIN	NP	B32 253 71	COUNTERS	10.0 P/C	DSIG/DT VS COST PI- ,PI-

DATA AT 1.7680 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.1490	497.1010	26.5310	.0010	2.4428	99.3810	24.9410	.0010
2.1959	439.1010	25.3710	.0010	2.4694	146.9810	21.4410	.0010
2.2395	342.4410	25.8710	.0010	2.5017	268.5010	24.7210	.0010
2.2789	276.9810	24.5210	.0010	2.5308	288.0310	25.9310	.0010
2.3145	172.7810	20.8810	.0010	2.5551	449.2710	28.8810	.0010
2.3467	126.1110	21.3410	.0010	2.5743	569.1110	32.6510	.0010
2.3753	69.8310	20.7210	.0010	2.5882	563.4710	35.5310	.0010
2.4008	53.2010	22.0810	.0010	2.5972	635.5010	37.3210	.0010
2.4232	70.5510	23.5910	.0010	2.6020	613.8110	38.9210	.0010

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
UTT	PL	42B 133 72	COUNTERS	6.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 1.8000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	63938.4982	6393.8507	.0010	1.1455	1450.6588	151.1112	.0010
.1287	23529.7457	634.1916	.0010	1.2116	1337.3261	148.2779	.0010
.1637	18922.3017	836.3014	.0010	1.2397	1299.0764	132.2224	.0010
.1858	15323.5182	755.5519	.0010	1.3274	1218.7991	132.2224	.0010
.2174	13270.3086	567.6368	.0010	1.4155	1230.6046	130.8058	.0010
.2551	9476.2263	409.8874	.0010	1.5137	1073.8278	126.0836	.0010
.2830	7716.6205	534.5533	.0010	1.6166	880.6900	120.4169	.0010
.3692	3884.3494	406.5818	.0010	1.7043	1053.5223	129.3891	.0010
.4113	2813.4838	269.6382	.0010	1.7972	970.8839	129.3891	.0010
.4701	1823.7121	203.9998	.0010	1.8923	849.0514	128.9169	.0010
.5388	1238.6323	162.4444	.0010	1.9892	805.6072	134.1113	.0010
.6063	858.8846	134.1113	.0010	2.0726	572.3308	127.9724	.0010
.6727	722.9688	119.9447	.0010	2.1322	375.4154	151.5834	.0010
.7357	595.8807	106.2503	.0010	2.2371	358.8977	90.6671	.0010
.8101	846.2180	121.3614	.0010	2.2894	257.3605	81.2227	.0010
.8804	985.9950	127.9724	.0010	2.3539	280.0271	98.2226	.0010
.9458	1073.8278	136.0002	.0010	2.4415	11.3343	63.2784	.0010
.9708	1088.4666	132.2224	.0010	2.4971	77.9172	71.3061	.0010
.9715	927.9120	119.9447	.0010	2.5468	75.0839	90.6671	.0010
1.0586	1029.4391	121.3614	.0010	2.5826	262.0827	117.1114	.0010
1.0851	1417.6034	149.2223	.0010	2.6123	457.1393	144.0279	.0010
1.1390	1165.9105	126.5558	.0010	2.6339	737.1354	169.5277	.0010

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
APLIN	NP	B32 253 71	COUNTERS	10.0 P/C	DSIG/DT VS COST PI- ,PI-

DATA AT 1.8100 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
.1970	13610.0010	420.0010	.3030	6260.0010	250.0010

TURN TO NEXT PAGE

REACTION $\pi^- p = p \pi^-$

CONTINUATION OF DATA AT 1.810 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2100	12780.0010	400.0010	.0010	.3170	6050.0010	240.0010	.0010
.2220	12470.0010	390.0010	.0010	.3320	5060.0010	220.0010	.0010
.2350	11030.0010	360.0010	.0010	.3460	4780.0010	210.0010	.0010
.2480	9520.0010	330.0010	.0010	.3610	4148.0010	200.0010	.0010
.2620	8350.0010	300.0010	.0010	.3760	3730.0010	190.0010	.0010
.2750	7520.0010	280.0010	.0010	.3920	3540.0010	180.0010	.0010
.2890	7620.0010	260.0010	.0010	.4070	3090.0010	170.0010	.0010

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
FELLINGER	PR	2	1777 70	SPARK CHAMBERS	5.0 P/C	DSIG/DT	VS -T π^- , π^-

DATA AT 1.8160 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.2282	410.5410	19.5210	.0010	2.5269	106.3110	19.6710	.0010
2.2760	350.6710	18.8910	.0010	2.5538	158.3610	18.0510	.0010
2.3204	255.3110	17.2510	.0010	2.5866	264.0310	18.2310	.0010
2.3604	179.0810	15.9510	.0010	2.6160	351.3710	21.2710	.0010
2.3966	104.7310	15.2610	.0010	2.6407	443.2710	22.6510	.0010
2.4293	63.0010	15.0210	.0010	2.6601	487.8110	25.0010	.0010
2.4584	55.4610	15.1310	.0010	2.6742	561.5710	26.3710	.0010
2.4842	75.6410	16.4810	.0010	2.6833	560.4910	27.7110	.0010
2.5069	80.1310	17.3810	.0010	2.6881	475.6210	26.6310	.0010

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
OTT	PL	42B	133 72	COUNTERS	6.0 P/C	DSIG/DT	VS -T π^- , π^-

DATA AT 1.8400 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	64601.9047	6460.1914	.0010	1.1883	1252.9561	143.4586	.0010
.1306	23693.4964	648.3190	.0010	1.2564	1117.7749	139.7802	.0010
.1663	18802.6035	845.1134	.0010	1.2651	1248.3581	128.7450	.0010
.1886	15587.2219	774.3042	.0010	1.3550	1372.9639	138.4008	.0010
.2210	12131.8247	487.3890	.0010	1.4467	988.1113	116.7902	.0010
.2592	10013.5260	430.3738	.0010	1.5466	856.1486	113.1118	.0010
.2877	8298.0121	569.2334	.0010	1.6527	762.3494	111.2726	.0010
.3851	3309.1818	380.7154	.0010	1.7428	925.1187	122.7676	.0010
.4287	1999.2115	232.2000	.0010	1.8386	786.7188	118.1696	.0010
.4899	1503.0873	189.8984	.0010	1.9318	844.6536	128.7450	.0010
.5611	916.8423	142.5390	.0010	2.0368	686.9422	128.7450	.0010
.6313	681.4246	120.4686	.0010	2.1229	552.6806	128.7450	.0010
.7902	543.9444	104.8354	.0010	2.1846	424.8562	153.5742	.0010
.7653	548.6826	102.5364	.0010	2.3039	303.4690	92.4208	.0010
.9150	995.0083	130.5842	.0010	2.3571	165.5290	81.3856	.0010
.9824	1392.2755	154.9536	.0010	2.4224	154.9536	79.5464	.0010
.9902	1059.9557	124.6068	.0010	2.5111	111.7324	62.5338	.0010
1.0477	1370.2051	149.4360	.0010	2.5673	227.1422	80.4660	.0010
1.0794	1132.4885	125.9862	.0010	2.6175	223.4638	95.1796	.0010
1.1155	691.6804	111.2726	.0010	2.6538	81.8454	90.5816	.0010
1.1261	1317.3281	146.2174	.0010	2.6837	417.4994	136.5616	.0010
1.1618	1287.9009	132.8832	.0010	2.7056	251.9714	111.2726	.0010

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
APLIN	NP	B32	253 71	COUNTERS	10.0 P/C	DSIG/DOM	VS COST π^- , π^-

DATA AT 1.8650 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.3094	266.8710	13.6810	.0010	2.6130	80.1010	14.4410	.0010
2.3581	190.2410	12.6910	.0010	2.6403	124.2810	12.3910	.0010
2.4033	132.9610	11.3510	.0010	2.6735	192.2210	13.6310	.0010
2.4440	95.6410	11.0110	.0010	2.7032	260.1510	16.1010	.0010
2.4808	55.4110	10.6310	.0010	2.7283	291.5710	16.4610	.0010
2.5139	40.7110	9.5116	.0010	2.7479	357.2310	18.1610	.0010
2.5435	35.6910	11.7010	.0010	2.7621	360.2710	19.0210	.0010
2.5697	32.0810	12.5210	.0010	2.7714	365.4710	19.4910	.0010
2.5927	42.1810	13.4110	.0010	2.7762	322.2110	19.0710	.0010

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
OTT	PL	42B	133 72	COUNTERS	6.0 P/C	DSIG/DT	VS -T π^- , π^-

REACTION PI- P = P PI-

DATA AT 1.8800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	EPROP	
		+	-			+	-
.0000	65094.3777	6509.4387	.0010	1.3837	1255.2966	122.3050	.0010
.1328	24208.1204	620.9288	.0010	* 1.4306	976.6407	85.1210	.0010
.1690	19598.6500	823.4247	.0010	1.4780	1125.3766	113.7930	.0010
.1919	16386.9391	759.3607	.0010	* 1.5301	837.7607	85.1210	.0010
.2247	12869.6924	471.7448	.0010	1.5803	903.1687	106.6250	.0010
* .2342	9094.3978	582.4008	.0010	* 1.6073	797.4407	76.1610	.0010
.2637	9838.5255	396.0329	.0010	1.6895	809.0987	103.4890	.0010
* .2805	6751.3586	430.0808	.0010	1.7823	849.8567	107.5210	.0010
.2926	8360.5740	538.4968	.0010	* 1.7952	1021.4406	103.0410	.0010
* .3296	4677.1193	201.6009	.0010	1.8809	823.4247	109.3130	.0010
* .3815	3354.4798	156.8009	.0010	* 1.9593	1084.1606	143.3609	.0010
.4003	2834.9440	317.6329	.0010	1.9820	605.2488	103.4890	.0010
* .4376	2392.3201	125.4410	.0010	2.0851	556.4168	105.2810	.0010
.4456	2133.8562	217.2809	.0010	2.1740	583.2968	114.2410	.0010
* .4937	1500.8005	94.0810	.0010	2.2377	407.2329	133.5050	.0010
.5090	1593.5364	175.6169	.0010	* 2.3143	264.0010	50.0010	.0010
* .5526	1084.1606	85.1210	.0010	+ 2.3423	218.0010	41.0010	.0010
.5827	792.6647	120.0650	.0010	+ 2.3701	202.9449	70.3370	.0010
* .6438	613.7608	53.7610	.0010	+ 2.3704	269.0010	45.0010	.0010
.6554	723.0727	112.4490	.0010	+ 2.3984	204.0010	38.0010	.0010
.7266	801.4727	113.7930	.0010	2.4241	51.9690	64.0650	.0010
* .7363	528.6408	80.6410	.0010	+ 2.4264	92.0010	26.0010	.0010
.7938	796.9927	112.0010	.0010	+ 2.4545	85.0010	24.0010	.0010
* .7994	716.8007	71.6810	.0010	+ 2.4825	59.0010	20.0010	.0010
* .8625	613.7608	71.6810	.0010	2.4904	150.0809	78.4010	.0010
.8733	767.8727	106.6250	.0010	+ 2.5106	28.0010	15.0010	.0010
* .9257	1088.6406	112.0010	.0010	+ 2.5386	39.0010	16.0010	.0010
.9485	1094.0166	122.7530	.0010	+ 2.5667	12.0010	11.0010	.0010
* .9888	1187.2006	107.5210	.0010	2.5803	32.2570	54.6570	.0010
1.0098	1034.8806	112.0010	.0010	+ 2.5947	11.0010	10.0010	.0010
1.0179	1344.8965	137.5370	.0010	* 2.6228	35.0010	15.0010	.0010
* 1.0813	1541.1204	85.1210	.0010	+ 2.6373	115.5890	71.2330	.0010
1.0865	1232.0006	127.2330	.0010	+ 2.6508	67.0010	19.0010	.0010
1.1013	1199.7446	116.9290	.0010	* 2.6789	123.0010	24.0010	.0010
1.1659	1146.8806	124.0970	.0010	2.6882	159.4889	85.5690	.0010
* 1.1739	1429.1205	116.4810	.0010	+ 2.7069	183.0010	27.0010	.0010
1.1857	1238.7206	117.8250	.0010	2.7249	413.9529	119.6170	.0010
1.2299	1343.5525	133.5050	.0010	+ 2.7350	205.0010	27.0010	.0010
* 1.2342	1379.8405	134.4010	.0010	2.7552	344.0649	121.8570	.0010
1.2914	1139.7126	113.7930	.0010	+ 2.7630	246.0010	27.0010	.0010
* 1.2931	1155.8406	94.0810	.0010	2.7772	419.7769	124.0970	.0010
1.2998	1401.3445	138.8810	.0010	+ 2.7868	269.0010	61.0010	.0010
* 1.3506	1102.0806	116.4810	.0010				

REFERENCES

TECHNIQUES

SYSTEMATIC ERROR

MEASURED VARIABLES

APLIN	NP	B32	253	71	COUNTERS	10.0 P/C	DSIG/DOH	VS COST PI- ,PI-
* HILL	PR	1	729	70	COUNTERS	5.0 P/C	DSIG/DOH	VS COST PI- ,PI-
+ CARROL	PRL	20	607	68	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS -T PI- ,F

DATA AT 1.8900 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0988	33345.5143	2443.8254	.0010	.9598	970.4088	204.7659	.0010
.1270	28359.9324	2154.4836	.0010	1.0728	1513.4802	324.9539	.0010
.1553	21072.9702	1647.0225	.0010	1.1857	961.5959	186.9602	.0010
.1835	20369.6470	1718.2451	.0010	1.2704	1010.4715	587.5873	.0010
.2117	16078.5006	1598.0570	.0010	1.3551	186.9602	231.4744	.0010
.2400	12036.6181	1330.9723	.0010	1.4680	832.4150	186.9602	.0010
.2682	8048.1525	1148.4643	.0010	1.5809	672.1641	178.0574	.0010
.2964	9623.9526	1081.6941	.0010	1.6938	409.5307	169.1546	.0010
.3247	7896.8023	1157.3672	.0010	1.8067	649.9070	178.0574	.0010
.3529	5421.8181	943.7002	.0010	1.9197	391.7252	124.6405	.0010
.3811	6516.8667	1032.7286	.0010	2.0326	391.7252	137.9947	.0010
.4093	2345.8943	787.9009	.0010	2.1455	458.4964	146.8975	.0010
.4376	4073.0423	992.6659	.0010	2.2584	342.7595	133.5433	.0010
.4799	1362.1321	507.4618	.0010	2.3713	166.8348	106.8348	.0010
.5364	596.4900	418.4336	.0010	2.4843	106.8348	102.3834	.0010
.6211	298.2455	182.5088	.0010	2.5972	62.3208	111.2862	.0010
.7340	382.8222	173.0060	.0010	2.7101	129.3919	151.3489	.0010
.8469	694.4211	195.8631	.0010				

REFERENCE

TECHNIQUE

SYSTEMATIC ERROR

MEASURED VARIABLES

BUSZA	PR	180	1339	69	SPARK CHAMBERS	NOT GIVEN	DSIG/DOH	VS COST PI- ,PI-
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DATA AT 1.9100 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	EPROP	
		+	-			+	-
.2470	10120.0010	350.0010	.0010	.3510	4360.0010	200.0010	.0010
.2600	9000.0010	320.0010	.0010	.3670	4000.0010	190.0010	.0010
.2750	7600.0010	290.0010	.0010	.3830	3490.0010	180.0010	.0010
.2900	7010.0010	280.0010	.0010	.4000	3160.0010	170.0010	.0010
.3040	6180.0010	250.0010	.0010	.4160	2750.0010	160.0010	.0010
.3200	5510.0010	240.0010	.0010	.4330	2170.0010	150.0010	.0010

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REACTION PI- P = P PI-

CONTINUATION OF DATA AT 1.910 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.3350	4680.0010	210.0010	.0010	.4500	1990.0010	140.0010	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
FELLINGER	PR	2 1777	70	SPARK CHAMBERS	5.0 P/C	DSIG/DT	VS -T PI- ,PI-

DATA AT 1.9170 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.3960	149.2910	11.0310	.0010	2.7046	83.6110	14.3310	.0010
2.4456	96.7010	10.1410	.0010	2.7322	127.0210	12.1310	.0010
2.4916	47.2710	9.6410	.0010	2.7659	176.3910	13.2110	.0010
2.5330	32.7110	9.3310	.0010	2.7960	235.3910	16.1110	.0010
2.5704	23.9810	9.6610	.0010	2.8214	235.6310	15.7210	.0010
2.6041	10.3410	9.4910	.0010	2.8412	245.6410	16.3910	.0010
2.6341	1.2710	8.9310	.0010	2.8557	193.8010	16.4210	.0010
2.6607	30.4810	12.3810	.0010	2.8650	242.1110	17.0210	.0010
2.6840	49.3110	13.5410	.0010	2.8699	167.8810	15.8110	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
OTT	PL	428 133	72	COUNTERS	6.0 P/C	DSIG/DT	VS -T PI- ,PI-

DATA AT 1.9200 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	66258.6885	6625.8697	.0010	1.3158	1075.7765	100.0224	.0010
.1828	16713.1762	515.3949	.0010	1.3463	1202.0043	116.1830	.0010
.2279	11341.2869	410.5690	.0010	1.4104	1044.7655	102.2062	.0010
.2673	8193.4533	332.8231	.0010	1.5069	1023.3636	97.8365	.0010
.2968	7224.2508	464.2923	.0010	1.6122	855.2054	92.5972	.0010
.4172	2650.7853	280.4102	.0010	1.7242	726.3569	88.6662	.0010
.4641	1999.1178	188.2508	.0010	1.8198	738.1499	90.8501	.0010
.5300	977.5023	126.2288	.0010	1.9213	607.5543	87.3559	.0010
.6065	652.5421	99.5856	.0010	2.0255	500.9813	85.1720	.0010
.6817	627.6459	93.4707	.0010	2.1318	319.2831	78.1836	.0010
.7555	645.1169	93.0340	.0010	2.2237	335.4438	83.4249	.0010
.8250	730.7247	95.6546	.0010	2.2893	245.4683	98.2753	.0010
.9072	926.8364	104.8269	.0010	2.4379	128.4127	60.2759	.0010
.9847	1025.1107	108.7578	.0010	2.4926	62.4597	48.0462	.0010
1.0274	1187.1540	106.5740	.0010	2.5596	43.2417	58.9656	.0010
1.0563	1148.2811	116.1830	.0010	2.6505	32.7591	44.5520	.0010
1.1209	1345.7031	111.3785	.0010	2.7079	69.4481	49.7933	.0010
1.1271	1202.0043	114.4359	.0010	2.7594	330.2025	86.9191	.0010
1.2074	1222.0960	106.5740	.0010	2.7964	121.8611	82.9881	.0010
1.2088	1051.7539	107.4475	.0010	2.8269	137.5850	93.4707	.0010
1.2746	1125.5688	111.3785	.0010	2.8490	314.0418	106.1372	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
APLIN	NP	832 253	71	COUNTERS	10.0 P/C	DSIG/DT	VS COST PI- ,PI-

DATA AT 1.9650 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.4228	141.6610	10.0910	.0010	2.7893	112.1410	15.5010	.0010
2.4763	85.1410	9.5610	.0010	2.8173	151.9110	13.8910	.0010
2.5267	48.2310	8.6910	.0010	2.8514	194.0610	13.9810	.0010
2.5734	27.4310	9.0910	.0010	2.8819	223.5010	14.4010	.0010
2.6154	8.2210	8.7910	.0010	2.9075	234.4810	15.6010	.0010
2.6533	10.7910	9.1410	.0010	2.9276	193.9610	15.0110	.0010
2.6875	13.4310	9.7910	.0010	2.9421	190.7210	15.5310	.0010
2.7180	37.1910	11.1510	.0010	2.9515	169.2910	14.8210	.0010
2.7449	63.8010	12.6210	.0010	2.9565	97.0410	13.9610	.0010
2.7685	78.8710	13.9710	.0010				
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
OTT	PL	428 133	72	COUNTERS	6.0 P/C	DSIG/DT	VS -T PI- ,PI-

REACTION PI- P = P PI-

DATA AT 1.9750 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0223	80430.0340	4010.9475	.0010	.0670	61430.8136	4010.9475	.0010
.0372	63330.7356	3377.6402	.0010	.0819	57842.0720	4855.3573	.0010
.0521	60586.4038	3588.7426	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
ABILLON	NP	B46	630 72	SPARK CHAMBERS	4.6 P/C	DSIG/DM	VS COST PI- ,PI-

DATA AT 1.9800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	67348.3539	6734.8363	.0010	2.0914	358.6310	83.3446	.0010
.1375	20555.5601	546.3645	.0010	2.2026	338.0955	87.5539	.0010
.1751	17282.0093	745.0422	.0010	2.2988	322.0103	90.9213	.0010
.1987	12307.4916	610.3454	.0010	2.3674	252.9783	105.6537	.0010
.2329	9231.3555	376.7308	.0010	2.4631	187.0010	45.0010	.0010
.2733	7325.8181	324.1149	.0010	2.4930	120.0010	26.0010	.0010
.3035	5831.9474	417.1399	.0010	2.5228	59.0010	17.0010	.0010
.3344	4217.6916	225.6180	.0010	2.5389	.0010	50.0913	.0010
.4418	2073.9093	258.8712	.0010	2.5527	39.0010	14.0010	.0010
.4914	1396.6375	166.6882	.0010	2.5825	41.0010	14.0010	.0010
.5608	883.5272	125.4373	.0010	2.5946	93.0259	56.4052	.0010
.6414	495.8532	92.6050	.0010	2.6124	10.0010	7.0010	.0010
.7205	416.2980	83.3446	.0010	2.6622	1.0010	4.0010	.0010
.7980	486.5928	87.1329	.0010	2.6630	88.3957	62.7192	.0010
.8710	740.4120	101.4445	.0010	2.6721	.0010	4.0010	.0010
.9570	1048.1097	116.5978	.0010	2.7019	9.0010	7.0010	.0010
1.0380	934.4594	108.1793	.0010	2.7318	28.0010	11.0010	.0010
1.0549	1024.1169	107.3374	.0010	2.7554	56.4052	53.0378	.0010
1.1130	935.7222	111.5467	.0010	2.7616	39.0010	12.0010	.0010
1.1515	1080.9421	108.1793	.0010	2.7915	40.0010	12.0010	.0010
1.1867	1121.7720	117.0188	.0010	2.8139	100.1817	58.0690	.0010
1.2417	1152.4997	111.5467	.0010	2.8213	141.0010	21.0010	.0010
1.2719	1031.2727	112.3886	.0010	2.8512	92.0010	17.0010	.0010
1.3403	1071.6817	115.3351	.0010	2.8650	351.4752	91.7531	.0010
1.3531	1118.4046	108.6002	.0010	2.8810	106.0010	17.0010	.0010
1.4151	900.3643	108.1793	.0010	2.9036	285.8106	106.4956	.0010
1.4512	931.0920	103.9700	.0010	2.9109	197.0010	22.0010	.0010
1.5514	753.4607	93.4468	.0010	2.9345	.0010	85.0283	.0010
1.6606	687.3751	92.6050	.0010	2.9407	176.0010	18.0010	.0010
1.7774	571.6201	88.8166	.0010	2.9571	303.0686	113.2304	.0010
1.8768	458.3907	83.3446	.0010	2.9660	182.0010	41.0010	.0010
1.9828	402.8283	80.8190	.0010				

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES	
APLIN	HP	B32	253 71	COUNTERS	10.0 P/C	DSIG/DM	VS COST PI- ,PI-
* CARROL	PRL	20	607 68	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS -T PI- ,P

DATA AT 2.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1058	25369.3293	1247.6727	.0010	.9971	623.8372	124.7682	.0010
.1209	22458.0930	1247.6727	.0010	1.0576	748.6044	124.7682	.0010
.1360	19962.7477	1247.6727	.0010	1.1180	956.5498	124.7682	.0010
.1511	16219.7438	831.7827	.0010	1.1784	1039.7282	124.7682	.0010
.1662	13724.3964	831.7827	.0010	1.2388	748.6044	124.7682	.0010
.1964	11644.9420	623.8372	.0010	1.2993	956.5498	124.7682	.0010
.2266	8733.7067	623.8372	.0010	1.3597	623.8372	124.7682	.0010
.2568	7911.9260	623.8372	.0010	1.4201	707.0153	124.7682	.0010
.2871	6238.3644	499.0698	.0010	1.4806	499.0698	124.7682	.0010
.3173	4158.9099	415.8917	.0010	1.5410	707.0153	124.7682	.0010
.3475	3327.1272	415.8917	.0010	1.6014	623.8372	124.7682	.0010
.3777	2661.7017	291.1245	.0010	1.6619	374.3027	83.1791	.0010
.4079	2245.8108	249.5355	.0010	1.7676	332.7136	41.5901	.0010
.4381	1455.6181	249.5355	.0010	1.8734	249.5355	41.5901	.0010
.4684	1039.7282	207.9464	.0010	1.9791	249.5355	41.5901	.0010
.5137	831.7827	166.3573	.0010	2.1000	207.9464	41.5901	.0010
.5741	623.8372	166.3573	.0010	2.2360	249.5355	41.5901	.0010
.6345	249.5355	83.1791	.0010	2.3568	166.3573	41.5901	.0010
.6950	415.8917	83.1791	.0010	2.4475	83.1791	41.5901	.0010
.7554	207.9464	83.1791	.0010	2.5683	41.5901	41.5901	.0010
.8158	332.7136	83.1791	.0010	2.7043	41.5901	41.5901	.0010
.8763	457.4808	124.7682	.0010	2.8403	83.1791	41.5901	.0010
.9367	707.0153	124.7682	.0010	2.9309	124.7682	83.1791	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
DAHOUTH	PRL	11	287 63	SPARK CHAMBERS	8.0 P/C	DSIG/DM	VS COST PI- ,PI-

REACTION PI- P = P PI-

DATA AT 2.0080 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.4942	84.1310	8.5210	.0010	2.8444	122.7510	13.5810	.0010
2.5485	62.3810	7.7610	.0010	2.8654	152.2010	15.6310	.0010
2.5996	25.3310	6.6810	.0010	2.8937	182.7910	12.7010	.0010
2.6469	6.6210	5.3010	.0010	2.9281	212.5810	13.1310	.0010
2.6895	7.2110	6.5110	.0010	2.9589	213.2410	13.4210	.0010
2.7279	12.2210	7.0110	.0010	2.9847	194.5510	13.1910	.0010
2.7625	36.0610	8.6910	.0010	3.0050	145.3510	13.0410	.0010
2.7933	48.2910	9.1710	.0010	3.0197	109.1410	12.9110	.0010
2.8205	79.1510	11.0810	.0010	3.0342	66.7810	10.2010	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES				
UTT	PL	42B	133	72	COUNTERS	6.0 P/C	DSIG/JT	VS	-T	PI- ,PI-

DATA AT 2.0100 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2410	9190.0010	310.0010	.0010	.3690	2990.0010	150.0010	.0010
.2560	8490.0010	290.0010	.0010	.3860	3030.0010	150.0010	.0010
.2710	7970.0010	270.0010	.0010	.4040	2560.0010	130.0010	.0010
.2870	6330.0010	240.0010	.0010	.4210	2010.0010	120.0010	.0010
.3030	5990.0010	230.0010	.0010	.4390	1940.0010	120.0010	.0010
.3180	5180.0010	210.0010	.0010	.4570	1870.0010	120.0010	.0010
.3350	4250.0010	180.0010	.0010	.4750	1600.0010	110.0010	.0010
.3520	3790.0010	170.0010	.0010	.4940	1230.0010	100.0010	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES				
FELLINGER	PR	2	1777	70	SPARK CHAMBERS	5.0 P/C	DSIG/DT	VS	-T	PI- ,PI-

DATA AT 2.0300 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	68146.6240	6814.6633	.0010	1.3840	882.0667	161.7879	.0010
.1398	26818.2224	754.1896	.0010	1.3955	1052.0247	182.2156	.0010
.1781	17779.8145	1027.5115	.0010	1.4727	1055.7017	184.2584	.0010
.2022	13240.7918	879.2068	.0010	1.4849	910.2569	168.3248	.0010
.2374	10123.5332	578.1033	.0010	1.5882	796.6791	156.4768	.0010
.2782	8262.5748	510.2836	.0010	1.7009	469.8358	131.1465	.0010
.3388	6724.3731	640.2034	.0010	1.8214	479.6421	137.2748	.0010
.3405	4676.2974	359.5275	.0010	1.9241	417.1335	134.4149	.0010
.4628	2056.4530	406.9197	.0010	2.0336	404.4684	138.5004	.0010
.5144	1309.4130	259.8406	.0010	2.1462	336.2400	146.6715	.0010
.5869	604.2507	177.3130	.0010	2.2614	185.8926	139.7261	.0010
.6708	784.1144	180.1728	.0010	2.3610	176.0873	150.7570	.0010
.7533	576.0606	159.7452	.0010	2.4325	.0010	176.0873	.0010
.8337	569.1152	155.2511	.0010	2.6234	31.0510	104.1820	.0010
.9097	793.8193	169.9590	.0010	2.6800	.0010	73.5405	.0010
.9989	771.7574	169.5505	.0010	2.7493	58.8326	113.1702	.0010
1.0775	938.4470	172.0018	.0010	2.8430	136.4577	85.3886	.0010
1.0830	967.4457	180.9899	.0010	2.9024	160.1537	105.8162	.0010
1.1605	1107.3965	194.0636	.0010	2.9551	187.9353	127.8781	.0010
1.1757	824.8693	163.0136	.0010	2.9931	377.5039	169.1419	.0010
1.2370	1085.5260	183.0327	.0010	3.0245	273.3229	174.0445	.0010
1.2685	930.2759	169.1419	.0010	3.0471	394.6631	201.0090	.0010
1.3249	991.5589	178.1301	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES				
APLIN	NP	832	253	71	COUNTERS	10.0 P/C	DSIG/DM	VS	COST	PI- ,PI-

DATA AT 2.0700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
* .0040	67975.7501	6797.5759	.0010	* 1.1271	1201.4514	83.8231	.0010
* .1102	26104.5890	1995.7658	.0010	* 1.1951	1177.1031	108.9698	.0010
* .1414	21838.8569	564.4033	.0010	* 1.1963	690.5355	235.5012	.0010
* .1417	19957.6490	1676.4425	.0010	* 1.1979	1329.1804	79.8316	.0010
* .1732	16754.4097	1357.1201	.0010	* 1.2012	1084.4996	114.9571	.0010
* .1802	15590.1173	685.3466	.0010	* 1.2703	1432.9601	103.7808	.0010
* .2045	13639.8560	651.8178	.0010	* 1.2798	1205.8421	117.3520	.0010
* .2046	10098.5689	1157.5436	.0010	* 1.2887	1280.8828	111.7638	.0010
* .2361	10417.8913	1197.4589	.0010	* 1.3223	834.2306	143.6960	.0010
* .2397	9937.3131	389.1751	.0010	* 1.3412	1229.3921	79.8316	.0010
* .2550	8062.6908	439.0693	.0010	* 1.3701	1312.0168	122.5410	.0010
* .2676	6266.7005	918.0526	.0010	* 1.4068	1056.1597	102.5833	.0010
* .2815	7611.4488	329.3022	.0010	* 1.4089	1349.1380	135.7130	.0010

TURN TO NEXT PAGE

REACTION $\pi^- p = p \pi^-$

CONTINUATION OF DATA AT 2.070 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
* .2991	4590.2581	838.2221	.0010	1.4425	1023.0300	109.3689	.0010
+ .3085	5631.9222	223.5267	.0010	* 1.4781	1217.4175	95.7977	.0010
* .3126	5905.4690	416.3175	.0010	* 1.4954	926.0358	211.5520	.0010
* .3306	4710.0030	718.4761	.0010	1.5101	926.0359	100.1884	.0010
* .3446	4096.5078	219.5351	.0010	1.5216	823.0544	101.3859	.0010
* .3621	3620.3174	754.3999	.0010	* 1.5584	977.9258	71.8485	.0010
+ .3652	3384.8181	135.7130	.0010	1.6157	866.1629	94.9994	.0010
* .3935	2219.2905	598.7303	.0010	* 1.6371	439.0691	135.7129	.0010
+ .4250	1816.1470	103.7808	.0010	1.7312	567.9957	82.6257	.0010
* .4250	1436.9507	522.8913	.0010	* 1.7630	423.1029	127.7299	.0010
* .4565	1293.2556	578.7727	.0010	1.8546	459.4261	77.8358	.0010
* .4809	1308.8236	197.9809	.0010	* 1.8890	251.4672	123.7383	.0010
+ .4896	1213.4260	95.7977	.0010	1.9601	373.2090	73.8443	.0010
* .5037	1257.3319	419.1114	.0010	* 2.0149	307.3486	119.7468	.0010
* .5346	842.2137	124.1376	.0010	2.0727	339.6802	71.4494	.0010
+ .5557	762.3832	71.8485	.0010	* 2.1408	235.5012	91.8061	.0010
* .5667	183.6113	247.4758	.0010	2.1884	285.3954	71.4494	.0010
* .6097	644.2339	104.9782	.0010	* 2.2668	199.5774	111.7637	.0010
+ .6234	383.1878	67.8570	.0010	2.3069	237.8962	72.2477	.0010
* .6926	387.1794	55.8824	.0010	* 2.3927	95.7976	95.7976	.0010
* .6926	259.4903	151.6790	.0010	2.4097	175.2291	75.4409	.0010
* .6962	423.9014	83.0248	.0010	2.4832	164.4520	100.1884	.0010
+ .7619	431.0862	63.8655	.0010	* 2.5186	59.8739	75.8400	.0010
* .7816	650.6203	96.1969	.0010	* 2.6445	27.9417	71.8485	.0010
* .8186	143.6960	123.7383	.0010	2.6922	52.6892	64.2646	.0010
+ .8343	482.9761	59.8039	.0010	2.7494	.0010	44.3070	.0010
+ .8647	740.8289	100.1884	.0010	* 2.7705	35.9248	79.8315	.0010
+ .9114	574.7813	63.8655	.0010	2.8194	.0010	62.6680	.0010
* .9429	887.7172	106.5748	.0010	* 2.8964	67.8559	99.7892	.0010
* .9445	427.6946	151.6790	.0010	2.9140	85.0206	50.2943	.0010
+ .9791	874.1460	75.8401	.0010	2.9737	191.1953	78.6341	.0010
* 1.0350	949.5859	108.1715	.0010	* 3.0223	207.5605	139.7045	.0010
+ 1.0531	898.0952	83.8231	.0010	3.0269	393.9650	93.4028	.0010
* 1.0704	546.8404	179.6198	.0010	3.0650	210.7538	98.9909	.0010
* 1.0939	932.8215	101.3859	.0010	3.0965	114.9571	86.2180	.0010
1.1216	1005.8665	108.9698	.0010	3.1195	339.6802	121.3435	.0010

	REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
APLIN	NP	B32 253 71	10.0 P/C	VS COST π^- , π^-
* BUSZA	PR	180 1339 69	NOT GIVEN	VS COST π^- , π^-
+ HILL	PR	1 729 70	5.0 P/C	VS COST π^- , π^-

DATA AT 2.0800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.6441	161.0010	58.0010	.0010	2.9290	84.0010	17.0010	.0010
2.6758	57.0010	22.0010	.0010	2.9607	152.0010	22.0010	.0010
2.7074	28.0010	12.0010	.0010	2.9924	147.0010	22.0010	.0010
2.7391	3.0010	6.0010	.0010	3.0240	168.0010	21.0010	.0010
2.7707	8.0010	7.0010	.0010	3.0557	179.0010	22.0010	.0010
2.8024	11.0010	8.0010	.0010	3.0873	229.0010	23.0010	.0010
2.8341	24.0010	11.0010	.0010	3.1190	161.0010	17.0010	.0010
2.8657	20.0010	10.0010	.0010	3.1459	81.0010	24.0010	.0010
2.8974	44.0010	13.0010	.0010				

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CARROL	PRL	20 607 68	NOT GIVEN	VS -T π^- , π^-

DATA AT 2.0900 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2600	8360.0010	280.0010	.0010	.3966	2520.0010	130.0010	.0010
.2760	6990.0010	250.0010	.0010	.4150	2060.0010	120.0010	.0010
.2920	6520.0010	230.0010	.0010	.4340	1810.0010	110.0010	.0010
.3090	5630.0010	210.0010	.0010	.4530	1350.0010	90.0010	.0010
.3260	4860.0010	190.0010	.0010	.4720	1540.0010	100.0010	.0010
.3430	4320.0010	180.0010	.0010	.4910	1190.0010	90.0010	.0010
.3600	3390.0010	160.0010	.0010	.5110	958.0010	80.0010	.0010
.3780	2980.0010	140.0010	.0010	.5300	967.0010	81.0010	.0010

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FELLINGER	PR	2 1777 70	5.0 P/C	VS -T π^- , π^-

REACTION PI- P = P PI-

DATA AT 2.1000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0000	67488.5781	6748.8587	.0010	1.4252	1173.9883	162.0521	.0010
.1428	21589.2829	721.9718	.0010	1.4761	1087.2734	171.0767	.0010
.1819	14335.4714	845.9625	.0010	1.5301	869.5050	149.1037	.0010
.2066	12761.2277	807.1173	.0010	1.5565	1022.5314	168.7224	.0010
.2421	9513.9285	517.9366	.0010	1.6375	883.6305	145.1799	.0010
.2844	7107.8822	439.8539	.0010	1.7551	729.4270	142.4333	.0010
.3158	5825.5993	554.0351	.0010	1.8822	457.9031	126.7383	.0010
.3483	3956.7150	308.8005	.0010	1.9882	80.4380	102.4110	.0010
.4939	1268.3432	303.3072	.0010	2.1030	134.5858	105.1576	.0010
.5488	1099.8294	217.7694	.0010	2.2210	180.4937	123.2069	.0010
.6256	582.6785	164.4063	.0010	2.3421	122.8145	129.8773	.0010
.7145	502.2416	146.7494	.0010	2.4468	42.3775	124.3840	.0010
.8116	808.6868	164.4063	.0010	2.5221	58.0726	162.8368	.0010
.8867	892.2628	167.1529	.0010	2.6619	81.6151	89.8550	.0010
.9666	733.7431	154.2046	.0010	2.7421	.0010	107.1195	.0010
1.0606	814.3648	156.5588	.0010	2.8007	60.4268	82.7922	.0010
1.1073	955.0429	152.6350	.0010	2.8713	133.0163	114.1823	.0010
1.1490	1080.6030	171.0767	.0010	2.9666	81.2227	87.5007	.0010
1.2100	1112.3854	160.4826	.0010	3.0268	323.3184	126.7383	.0010
1.2303	1086.8810	175.7852	.0010	3.0805	72.1981	115.5365	.0010
1.3052	1152.8001	162.8368	.0010	3.1189	165.1911	155.3817	.0010
1.3102	1186.1520	175.7852	.0010	3.1506	438.6768	194.6192	.0010
1.4023	1123.7643	171.0767	.0010	3.1737	211.4914	191.4802	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
APLIN HP 832 253 71	COUNTERS	10.0 P/C	DSIG/DT VS COST PI-,PI-

DATA AT 2.1110 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
2.6041	46.2710	6.5610	.0010	3.0268	171.9210	15.2910	.0010
2.6663	21.9810	5.3710	.0010	3.0483	207.6810	17.9710	.0010
2.7225	24.8310	5.6010	.0010	3.0773	222.0210	14.0210	.0010
2.7752	6.6810	5.5510	.0010	3.1125	258.5410	14.0010	.0010
2.8239	20.8010	6.5210	.0010	3.1439	234.1110	13.6510	.0010
2.8656	23.4110	7.4310	.0010	3.1703	189.1710	12.8210	.0010
2.9072	51.8210	8.3210	.0010	3.1910	157.3510	12.3410	.0010
2.9427	80.7610	10.1310	.0010	3.2059	80.5410	10.5310	.0010
2.9743	123.1610	11.7210	.0010	3.2156	47.5310	8.9210	.0010
3.0123	124.0910	12.9110	.0010	3.2208	13.7910	7.4310	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OTT PL 428 133 72	COUNTERS	6.0 P/C	DSIG/DT VS -T PI-,PI-

DATA AT 2.1500 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0000	67537.1196	6753.7129	.0010	2.5863	30.9078	84.7086	.0010
.1451	20987.2560	550.6002	.0010	2.7457	7.2507	43.1179	.0010
.2100	12313.8874	604.7825	.0010	2.8236	96.5371	56.8543	.0010
.2460	9557.8388	378.5141	.0010	2.8866	73.2616	52.2755	.0010
.2890	7389.0197	320.8977	.0010	2.9583	32.0525	61.4331	.0010
.3211	4874.1205	367.0671	.0010	3.0548	135.8384	54.5649	.0010
.3540	3602.3622	203.7571	.0010	3.1157	324.7134	85.4717	.0010
.4043	2347.3928	156.0613	.0010	3.1699	248.7818	78.9851	.0010
.5158	775.3424	152.2457	.0010	* 3.2069	178.5737	56.4727	.0010
.5729	600.2038	106.0762	.0010	* 3.2069	227.2996	50.8255	.0010
.6529	266.3338	71.3538	.0010	* 3.2087	341.5022	106.0762	.0010
.7453	428.4992	80.8929	.0010	* 3.2152	313.2280	58.1516	.0010
.8357	534.5745	87.7611	.0010	* 3.2152	318.0741	60.4752	.0010
.9238	705.5159	95.7740	.0010	* 3.2234	201.4295	45.0257	.0010
1.0066	922.6267	106.0762	.0010	* 3.2234	234.8927	48.9940	.0010
1.1739	888.6674	102.2606	.0010	* 3.2316	304.4140	53.8018	.0010
1.1291	819.6040	96.9187	.0010	* 3.2316	316.2426	54.2215	.0010
1.1953	1115.6989	112.9444	.0010	* 3.2399	247.0266	45.8652	.0010
1.2344	927.5871	99.5896	.0010	* 3.2399	246.0343	46.5520	.0010
1.2795	1039.3858	111.0366	.0010	* 3.2409	376.6063	115.2338	.0010
1.3320	1134.0141	106.8394	.0010	* 3.2481	198.8730	39.6838	.0010
1.3620	1002.7555	106.0762	.0010	* 3.2481	170.5227	36.3642	.0010
1.4550	1135.1588	106.0762	.0010	* 3.2563	194.3324	36.7076	.0010
1.4570	991.3085	106.0762	.0010	* 3.2563	189.5247	36.6313	.0010
1.5331	901.6406	102.2606	.0010	* 3.2641	265.1891	111.7997	.0010
1.5629	913.8507	100.3528	.0010	* 3.2646	139.8448	29.7631	.0010
1.6157	765.0401	95.7740	.0010	* 3.2646	141.9816	30.2592	.0010
1.6734	774.1977	91.5768	.0010	* 3.2728	125.5743	26.7869	.0010
1.7944	428.4992	75.1694	.0010	* 3.2728	128.0925	26.7106	.0010
1.9238	369.3565	72.8800	.0010	* 3.2810	73.4523	16.7899	.0010
2.0347	262.5182	66.7750	.0010	* 3.2810	77.6878	17.8201	.0010
2.1531	159.1139	60.2884	.0010	* 3.2868	41.7443	17.0570	.0010
2.2749	148.0485	62.5778	.0010	* 3.2868	52.6571	18.6977	.0010
2.4001	179.7184	71.3538	.0010	* 3.2901	27.4737	10.3033	.0010
2.5086	116.3785	72.8800	.0010	* 3.2901	32.1670	13.1269	.0010

REACTION PI- P = P PI-

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES		
APLIN	NP	832	253 71	COUNTERS	10.0 P/C	DSIG/DM	VS COST PI-	,PI-
* MEANLEY	PR	6	740 72	SPARK CHAMBERS	7.0 P/C	DSIG/DM	VS COST PI-	,PI-
+ ANTHONY	PRL	21	1605 68	SPARK CHAMBERS	NOT GIVEN	DSIG/DM	VS COST PI-	,PI-

DATA AT 2.1600 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2770	7280.0010	160.0010	.0010	.4210	1810.0010	70.0010	.0010
.2930	6290.0010	150.0010	.0010	.4410	1580.0010	60.0010	.0010
.3110	5060.0010	130.0010	.0010	.4620	1300.0010	63.0010	.0010
.3290	4610.0010	120.0010	.0010	.4810	1100.0010	50.0010	.0010
.3460	3630.0010	110.0010	.0010	.5010	948.0010	50.0010	.0010
.3640	3260.0010	100.0010	.0010	.5220	805.0010	46.0010	.0010
.3830	2620.0010	90.0010	.0010	.5420	658.0010	42.0010	.0010
.4020	2320.0010	80.0010	.0010	.5630	606.0010	41.0010	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
FELLINGER	PR	2	1777 70	SPARK CHAMBERS	5.0 P/C	DSIG/DT	VS -T PI-	,PI-

DATA AT 2.1700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1165	25814.3471	2943.7430	.0010	.7825	215.1206	203.7985	.0010
.1498	18190.8078	2339.8983	.0010	.9323	505.7207	245.3128	.0010
.1831	15284.6162	2037.9759	.0010	1.1321	381.1777	298.1492	.0010
.2164	13473.2840	2037.9759	.0010	1.4151	479.3026	181.1543	.0010
.2497	10152.1381	1736.0536	.0010	1.6482	388.7259	475.5286	.0010
.2830	6378.1088	1358.6507	.0010	1.7481	905.7678	475.5286	.0010
.3163	5812.1053	1245.4298	.0010	1.8480	362.3076	392.4999	.0010
.3496	3502.2993	985.0218	.0010	1.9978	113.2218	177.3803	.0010
.3829	1683.2172	701.9704	.0010	2.1976	90.5776	75.4815	.0010
.4162	1058.4504	562.3313	.0010	2.3974	7.5491	132.0920	.0010
.4495	977.4737	566.1053	.0010	2.5472	237.7647	252.8609	.0010
.4995	1332.2325	426.4662	.0010	2.7304	128.3179	150.9621	.0010
.5494	358.5336	373.6298	.0010	2.9301	64.1594	177.3803	.0010
.5827	313.2452	301.9232	.0010	3.0633	362.3076	184.9284	.0010
.6327	339.6635	245.3128	.0010	3.1965	358.5336	275.5050	.0010
.6992	124.5439	237.7647	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
BUSZA	PR	180	1339 69	SPARK CHAMBERS	NOT GIVEN	DSIG/DM	VS COST PI-	,PI-

DATA AT 2.1800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.7956	7.0010	13.0010	.0010	3.0969	158.0010	27.0010	.0010
2.8291	34.0010	16.0010	.0010	3.1303	202.0010	28.0010	.0010
2.8625	19.0010	12.0010	.0010	3.1638	217.0010	29.0010	.0010
2.8960	26.0010	13.0010	.0010	3.1973	223.0010	28.0010	.0010
2.9295	22.0010	12.0010	.0010	3.2308	194.0010	25.0010	.0010
2.9630	41.0010	15.0010	.0010	3.2642	261.0010	27.0010	.0010
2.9964	53.0010	17.0010	.0010	3.2977	198.0010	22.0010	.0010
3.0299	53.0010	17.0010	.0010	3.3245	128.0010	36.0010	.0010
3.0634	127.0010	25.0010	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
CARROL	PRL	20	607 68	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS -T PI-	,P

DATA AT 2.2000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	66838.0878	6683.8097	.0010	1.5116	976.9510	103.2287	.0010
.1474	20776.9916	542.5035	.0010	1.5899	791.2897	94.6883	.0010
.1878	15784.5579	686.2054	.0010	1.5957	906.7710	95.8023	.0010
.2132	10453.8491	536.1910	.0010	1.6749	777.5507	95.4309	.0010
.2501	9211.4033	367.2392	.0010	1.7092	808.3705	89.4898	.0010
.2938	6530.4534	295.9452	.0010	1.8336	507.5991	76.1222	.0010
.3262	4842.4204	362.4120	.0010	1.9667	342.3605	67.9531	.0010
.3591	3257.9864	193.0888	.0010	2.0810	155.2139	55.3281	.0010
.4110	2032.6215	142.9602	.0010	2.2030	94.3170	51.2435	.0010
.5378	536.5623	126.2507	.0010	2.3289	136.2764	59.0413	.0010
.5972	383.5774	87.2618	.0010	2.4581	99.1442	61.2692	.0010
.6802	256.2137	71.2950	.0010	2.5702	.0010	60.1553	.0010
.7762	437.4191	80.2067	.0010	2.6507	.0010	72.4089	.0010

TURN TO NEXT PAGE

REACTION $\pi^- p = p \pi^-$

CONTINUATION OF DATA AT 2.200 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.8699	438.1618	78.3501	.0010	2.8296	.0010	43.8171	.0010
.9611	640.1613	90.6037	.0010	2.9131	.0010	48.2730	.0010
1.0469	840.3043	100.6295	.0010	2.9725	.0010	54.9568	.0010
1.1474	973.9805	105.4566	.0010	3.0453	.0010	69.8097	.0010
1.1510	925.7085	95.8023	.0010	3.1429	.0010	51.2435	.0010
1.2588	946.8739	96.9162	.0010	3.2045	.0010	85.0339	.0010
1.3095	979.9216	103.9714	.0010	3.2594	.0010	85.7765	.0010
1.3287	1024.8517	108.0559	.0010	3.2988	.0010	98.0302	.0010
1.3588	1054.3288	100.6295	.0010	3.3311	.0010	106.1993	.0010
1.4138	1005.5429	103.9714	.0010	3.3546	.0010	125.1368	.0010
1.4850	994.7745	96.9162	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
APLIN HP 832 253 71	COUNTERS	10.0 P/C	DSIG/DTM VS COST π^- , π^-

DATA AT 2.2050 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.6934	37.8510	5.5910	.0010	3.1939	206.9610	15.9810	.0010
2.7606	15.4410	4.8310	.0010	3.2159	244.6510	19.1210	.0010
2.8246	11.9310	5.3310	.0010	3.2454	264.2910	14.8210	.0010
2.8823	13.1310	4.6210	.0010	3.2813	261.7110	13.5110	.0010
2.9364	19.5410	6.1310	.0010	3.3133	246.6910	13.4410	.0010
2.9864	40.6110	7.2710	.0010	3.3401	176.5210	12.2510	.0010
3.0313	52.5710	8.5910	.0010	3.3611	147.9510	11.7010	.0010
3.0717	91.8710	9.8410	.0010	3.3764	77.7510	10.2410	.0010
3.1081	114.6710	10.7710	.0010	3.3862	41.7410	9.0510	.0010
3.1403	137.1810	12.2810	.0010	3.3915	24.0910	7.7510	.0010
3.1689	174.1410	14.0810	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OTT PL 42B 133 72	COUNTERS	6.0 P/C	DSIG/DT VS -T π^- , π^-

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      PI-                PI-
      *****
      I
      I
      I T
      I
      I
      *****
      P                    P

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DATA AT 2.2300 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2930	6110.0010	250.0010	.0010	.4680	1270.0010	100.0010	.0010
.3120	5230.0010	220.0010	.0010	.4890	1000.0010	80.0010	.0010
.3300	4410.0010	200.0010	.0010	.5100	845.0010	77.0010	.0010
.3480	3670.0010	180.0010	.0010	.5310	637.0010	68.0010	.0010
.3680	3070.0010	160.0010	.0010	.5530	574.0010	65.0010	.0010
.3870	2750.0010	150.0010	.0010	.5740	495.0010	61.0010	.0010
.4060	1990.0010	120.0010	.0010	.5960	346.0010	51.0010	.0010
.4270	1800.0010	120.0010	.0010				

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 FELLINGER PR 2 1777 70 SPARK CHAMBERS 5.0 P/C DSIG/DT VS -T PI- ,PI-

DATA AT 2.2400 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	65794.8812	6579.4890	.0010	1.5596	942.2128	99.2386	.0010
.1487	20506.1932	530.3586	.0010	1.6189	1047.9935	92.6954	.0010
.1895	16307.6801	693.5735	.0010	1.6397	790.2666	91.2414	.0010
.2152	12852.9036	613.2384	.0010	1.7266	621.9625	82.8807	.0010
.2524	8808.8813	350.4224	.0010	1.7349	716.1110	83.6078	.0010
.2966	6327.5782	284.9910	.0010	1.8619	501.6415	74.5201	.0010
.3296	4519.1278	343.8792	.0010	1.9983	402.4039	69.7945	.0010
.3633	3355.9034	191.9330	.0010	2.1152	164.6700	55.2542	.0010
.4150	1806.2704	131.9543	.0010	2.2403	90.1509	50.8921	.0010
.5576	497.6429	123.2301	.0010	2.3694	131.2273	55.2542	.0010
.6192	272.2682	74.5201	.0010	2.5020	144.3135	61.0703	.0010
.7049	390.0447	79.2457	.0010	2.6173	79.2457	64.7054	.0010
.8039	447.8424	80.6997	.0010	2.7003	13.4508	75.6106	.0010
.9006	621.9625	88.6969	.0010	2.8989	.0010	37.0788	.0010
.9946	758.2779	94.8765	.0010	2.9832	93.0590	52.7096	.0010
1.0829	759.0049	93.7860	.0010	3.0430	38.1693	47.2570	.0010
1.1659	812.0770	90.8779	.0010	3.1163	86.1523	63.6148	.0010
1.1880	782.9964	92.6954	.0010	3.2147	172.6671	62.8878	.0010
1.2755	845.1562	90.8779	.0010	3.2765	182.4818	67.6134	.0010
1.2832	840.4306	95.6035	.0010	3.3317	294.0787	82.1537	.0010
1.3721	933.8521	101.0561	.0010	3.3713	406.7660	109.4168	.0010
1.3773	864.7856	89.7874	.0010	3.4037	222.1042	94.1495	.0010
1.4594	950.9369	98.5116	.0010	3.4273	355.5115	113.7789	.0010
1.5060	799.3543	87.6063	.0010				

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 APLIN NP 832 253 71 COUNTERS 12.0 P/C DSIG/DT VS COST PI- ,PI-

DATA AT 2.2600 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0349	51824.7958	1165.4923	.0010	1.7816	366.9149	97.1253	.0010
.1048	28126.4722	859.7307	.0010	1.8515	341.7346	93.5281	.0010
.1747	15633.4124	643.8990	.0010	1.9214	496.4140	115.1113	.0010
.2445	8659.2420	4748.2990	.0010	1.9912	183.4580	68.3477	.0010
.3144	4687.1467	348.9290	.0010	2.0611	158.2776	64.7505	.0010
.3843	2018.0276	230.2215	.0010	2.1310	158.2776	64.7505	.0010
.4541	1432.8371	197.8467	.0010	2.2008	158.2776	64.7505	.0010
.5240	863.3279	151.0832	.0010	2.2707	104.3197	53.9589	.0010
.5939	471.2336	111.5141	.0010	2.3406	53.9589	35.9730	.0010
.6638	208.6383	75.5421	.0010	2.4104	79.1393	46.7645	.0010
.7336	341.7346	93.5281	.0010	2.4803	53.9589	35.9730	.0010
.8035	237.4159	79.1393	.0010	2.5502	53.9589	35.9730	.0010
.8734	525.1915	118.7084	.0010	2.6200	79.1393	46.7645	.0010
.9432	417.2757	104.3197	.0010	2.6899	104.3197	53.9589	.0010
1.0131	629.5102	129.5000	.0010	2.7598	53.9589	35.9730	.0010
1.0830	654.6906	129.5000	.0010	2.8296	79.1393	46.7645	.0010
1.1529	784.1896	143.8888	.0010	2.8995	25.1814	25.1814	.0010
1.2227	679.8709	133.0972	.0010	2.9694	25.1814	25.1814	.0010
1.2926	838.1475	147.4860	.0010	3.0393	25.1814	25.1814	.0010
1.3624	1071.9652	169.0692	.0010	3.1091	104.3197	53.9589	.0010
1.4323	957.6466	158.2776	.0010	3.1790	129.5000	57.5561	.0010
1.5022	708.6485	136.6944	.0010	3.2489	287.7766	86.3337	.0010
1.5720	863.3279	151.0832	.0010	3.3886	366.9149	97.1253	.0010
1.6419	550.3719	118.7084	.0010	3.4585	183.4580	68.3477	.0010
1.7118	446.3532	107.9169	.0010				

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 REYNOLDS PR 173 1403 68 BUBBLE CHAMBER 3.0 P/C DSIG/DT VS COST PI- ,PI-

REACTION PI- P = P PI-

DATA AT 2.2700 GEV/C FOLLOW

	-T	DSIG/DT	ERROR		*	-T	DSIG/DT	ERROR	
			+	-				+	-
	.1229	21578.6029	1574.5592	.0010	*	1.1097	636.9817	46.5221	.0010
	.1580	21542.8174	1538.7737	.0010	*	1.1922	730.0238	42.9435	.0010
	.1931	12011.1850	1145.1340	.0010		1.2291	833.8015	164.6139	.0010
	.2283	11737.6211	1109.3486	.0010	*	1.2870	740.7595	46.5221	.0010
	.2634	7944.3644	894.6368	.0010		1.3695	901.7938	214.7135	.0010
*	.2757	5807.9767	186.0852	.0010	*	1.4380	801.5947	53.6791	.0010
	.2985	5904.5956	858.8512	.0010		1.5100	701.3954	135.9856	.0010
	.3336	5081.5289	894.6368	.0010	*	1.5170	873.1655	78.7290	.0010
*	.3354	3496.2378	121.6715	.0010	*	1.5925	833.8016	64.4148	.0010
	.3687	2544.3444	536.7824	.0010		1.6505	472.3686	214.7135	.0010
*	.4021	1789.2726	93.0431	.0010	*	1.6698	651.2959	50.1006	.0010
	.4038	2286.6893	515.3112	.0010	*	1.7453	518.8898	35.7864	.0010
	.4390	1284.6972	440.1616	.0010	*	1.7909	300.5986	125.2499	.0010
*	.4706	941.1579	50.1006	.0010	*	1.8190	465.2116	32.2079	.0010
	.4741	1506.5669	450.8974	.0010	*	1.9068	275.5488	35.7864	.0010
	.5267	486.6828	254.0775	.0010		1.9314	332.8055	103.7787	.0010
*	.5426	433.8400	35.7864	.0010	*	1.9963	153.8784	21.4723	.0010
	.5970	139.5641	214.7135	.0010		2.0718	132.4070	82.3074	.0010
*	.6198	251.2347	42.9435	.0010		2.2123	232.6062	96.6216	.0010
	.6672	146.7212	175.3495	.0010		2.3528	157.4568	75.1503	.0010
*	.6953	293.9780	32.2079	.0010		2.4932	46.5221	57.2577	.0010
*	.7778	229.0278	32.2079	.0010		2.6337	157.4568	78.7289	.0010
	.8077	132.4070	121.6714	.0010		2.7742	32.2079	57.2577	.0010
*	.8586	354.2768	82.3075	.0010		2.9146	85.8860	67.9933	.0010
*	.9411	436.5833	42.9435	.0010		3.0551	3.5795	53.6791	.0010
	.9481	433.0047	139.5641	.0010		3.1956	286.2844	100.2001	.0010
*	1.0113	604.7748	50.1006	.0010		3.3360	307.7555	114.5143	.0010
	1.0886	511.7325	125.2499	.0010					

	REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
BUSZA	PR 180 1339 69	SPARK CHAMBERS	NOT GIVEN	VS COST PI- ,PI-
* HILL	PR 1 729 70	COUNTERS	5.0 P/C	VS COST PI- ,PI-

DATA AT 2.2800 GEV/C FOLLOW

	-T	DSIG/DT	ERROR		*	-T	DSIG/DT	ERROR	
			+	-				+	-
	2.9928	24.0010	15.0010	.0010		3.2652	152.0010	28.0010	.0010
	3.0181	32.0010	15.0010	.0010		3.3005	179.0010	29.0010	.0010
	3.0534	49.0010	18.0010	.0010		3.3357	200.0010	29.0010	.0010
	3.0887	45.0010	17.0010	.0010		3.3710	260.0010	32.0010	.0010
	3.1240	38.0010	15.0010	.0010		3.4063	245.0010	29.0010	.0010
	3.1593	59.0010	19.0010	.0010		3.4416	233.0010	27.0010	.0010
	3.1946	83.0010	22.0010	.0010		3.4769	192.0010	22.0010	.0010
	3.2299	106.0010	24.0010	.0010		3.5051	136.0010	38.0010	.0010

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CARROL	PRL 20 607 68	BUBBLE CHAMBER	NOT GIVEN	VS -T PI- ,P

DATA AT 2.2900 GEV/C FOLLOW

	-T	DSIG/DT	ERROR		*	-T	DSIG/DT	ERROR	
			+	-				+	-
*	.0000	64460.7808	6446.0790	.0010		1.6520	739.8832	86.4209	.0010
*	.0444	42838.6851	656.4880	.0010		1.6963	789.4685	88.9002	.0010
*	.1331	21771.4523	369.4321	.0010	*	1.7297	502.9368	56.2306	.0010
	.1512	20088.0342	4061.3843	.0010		1.7708	597.5028	77.2123	.0010
	.1925	15031.4048	652.7549	.0010		1.7855	486.6445	75.0872	.0010
	.2187	11575.3153	566.6892	.0010	*	1.8627	527.7294	57.5881	.0010
	.2218	10972.5008	262.2926	.0010		1.9014	497.9782	73.6705	.0010
*	.2564	7876.2583	324.4300	.0010	*	1.9871	439.1843	52.4940	.0010
	.3014	5660.1533	264.2194	.0010	*	1.9958	251.4689	39.7613	.0010
*	.3105	5234.7830	181.1570	.0010		2.0415	276.6157	63.0451	.0010
	.3348	4354.6454	332.2219	.0010	*	2.0845	138.1312	29.4511	.0010
	.3694	3224.4567	185.2372	.0010		2.1616	104.8383	50.2946	.0010
*	.3992	2411.9675	122.9263	.0010	*	2.1732	81.4624	22.5941	.0010
	.4219	1728.7541	128.9226	.0010	*	2.2619	155.8402	31.1688	.0010
*	.4879	1073.1667	82.0681	.0010		2.2904	64.8160	48.1695	.0010
*	.5766	449.8097	53.0111	.0010	*	2.3506	49.5862	17.5329	.0010
	.5798	363.7440	108.3801	.0010		2.4235	1.7719	47.8153	.0010
	.6434	326.2009	80.7541	.0010	*	2.4393	49.5862	17.5329	.0010
*	.6653	308.1377	44.0220	.0010	*	2.5280	49.5862	17.5329	.0010
	.7323	331.8678	73.3163	.0010		2.5603	.0010	49.5862	.0010
*	.7540	315.2213	44.5781	.0010	*	2.6167	88.5460	23.6673	.0010
	.8349	385.3490	73.6705	.0010		2.6791	72.6079	63.0451	.0010
*	.8427	439.1843	52.4940	.0010	*	2.7054	31.8772	14.2567	.0010
*	.9314	474.6023	54.4420	.0010		2.7558	82.8791	81.8166	.0010
	.9347	496.2073	78.6290	.0010	*	2.7941	74.3788	21.4714	.0010
*	1.0201	612.7326	61.8975	.0010	*	2.8828	56.6698	18.8894	.0010
	1.0320	605.2948	83.2333	.0010	*	2.9715	14.1682	10.0172	.0010
*	1.1088	772.1136	68.5136	.0010		2.9825	47.4611	47.8153	.0010
	1.1230	699.5067	87.4835	.0010	*	3.0602	49.5862	17.5329	.0010
	1.1879	715.0906	83.2333	.0010	*	3.0682	.0010	40.0234	.0010
*	1.1975	857.1169	73.2277	.0010		3.1288	.0010	38.9608	.0010
	1.2298	871.2841	94.9213	.0010	*	3.1489	74.3788	21.4714	.0010

TURN TO NEXT PAGE

REACTION PI- P = P PI-

CONTINUATION OF DATA AT 2.290 GEV/C

	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
			+	-			+	-
*	1.2862	888.9931	74.3434	.0010	3.2032	89.9627	55.2531	.0010
	1.3000	898.9101	91.7336	.0010	* 3.2376	120.4222	27.6270	.0010
	1.3296	919.4526	95.9838	.0010	3.3029	76.5039	55.6073	.0010
*	1.3749	747.3210	68.5065	.0010	* 3.3263	194.8001	34.9869	.0010
	1.4043	822.0530	87.4835	.0010	3.3655	198.3413	64.8160	.0010
	1.4213	858.8048	95.9838	.0010	* 3.4150	219.5927	37.1191	.0010
*	1.4636	772.1136	69.6186	.0010	3.4214	187.3623	75.4414	.0010
	1.5111	828.4283	91.0253	.0010	3.4613	199.7586	90.6711	.0010
	1.5361	804.6982	86.4209	.0010	3.4941	175.6743	86.0668	.0010
*	1.5523	722.5284	67.3767	.0010	* 3.5037	120.4222	27.6270	.0010
	1.6140	841.1788	91.3795	.0010	3.5180	237.6559	104.8383	.0010
*	1.6410	641.0670	63.4772	.0010				

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES			
APLIN	NP	832	253	71	COUNTERS	12.0 P/C	DSIG/DOH	VS COST PI-	PI-
* HAGOPIAN	PR	5	2684	72	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI-	PI-

DATA AT 2.3090 GEV/C FOLLOW

	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
			+	-			+	-
	2.9349	5.3310	7.0810	.0010	3.3795	257.2810	27.5910	.0010
	3.0009	10.5910	8.1410	.0010	3.4019	258.9410	30.2310	.0010
	3.0602	11.3710	7.0110	.0010	3.4320	259.4610	23.5010	.0010
	3.1159	31.3910	10.4810	.0010	3.4686	253.9110	22.5810	.0010
	3.1671	49.4810	12.3310	.0010	3.5012	215.4410	20.7510	.0010
	3.2132	70.6510	14.4510	.0010	3.5285	166.6510	19.1810	.0010
	3.2546	102.0910	16.0810	.0010	3.5499	125.1210	18.7410	.0010
	3.2918	120.3810	16.9010	.0010	3.5654	76.8710	16.9410	.0010
	3.3248	166.4910	20.2110	.0010	3.5755	40.0310	13.5110	.0010
	3.3539	215.0710	24.9810	.0010	3.5808	18.9510	13.9210	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
OTT	PL	42B	133	72	COUNTERS	6.0 P/C	DSIG/DT	VS -T PI-	PI-

DATA AT 2.3100 GEV/C FOLLOW

	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
			+	-			+	-
	.3140	5290.0010	180.0010	.0010	.4770	1200.0010	80.0010	.0010
	.3330	4140.0010	160.0010	.0010	.4990	939.0010	66.0010	.0010
	.3520	3530.0010	140.0010	.0010	.5220	723.0010	57.0010	.0010
	.3730	2990.0010	130.0010	.0010	.5440	632.0010	54.0010	.0010
	.3930	2330.0010	110.0010	.0010	.5660	542.0010	50.0010	.0010
	.4130	2010.0010	100.0010	.0010	.5890	456.0010	46.0010	.0010
	.4340	1640.0010	90.0010	.0010	.6120	339.0010	40.0010	.0010
	.4560	1410.0010	80.0010	.0010	.6360	369.0010	42.0010	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
FELLINGER	PR	2	1777	70	SPARK CHAMBERS	5.0 P/C	DSIG/DT	VS -T PI-	PI-

DATA AT 2.3400 GEV/C FOLLOW

	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
			+	-			+	-
	.0000	63191.7049	6319.1714	.0010	1.6733	626.3931	75.2785	.0010
	.1529	20711.3409	515.8939	.0010	1.6817	701.6706	77.6957	.0010
	.1949	14901.5026	628.1196	.0010	1.7577	529.7063	69.7536	.0010
	.2213	11173.5374	534.1953	.0010	1.8036	651.2554	73.2067	.0010
	.2597	8618.9350	329.4266	.0010	1.8492	412.9916	64.5739	.0010
	.3052	5956.5960	261.4006	.0010	1.9375	400.2151	62.5021	.0010
	.3390	4320.8632	316.6501	.0010	2.0814	330.1172	60.0849	.0010
	.3741	3277.6822	177.4903	.0010	2.2050	203.0432	51.4522	.0010
	.4274	1672.3366	119.8235	.0010	2.3376	99.7955	44.5460	.0010
	.6045	480.3270	104.9752	.0010	2.4746	30.7336	41.7835	.0010
	.6707	438.5026	77.3504	.0010	2.6157	53.8693	47.6538	.0010
	.7630	381.4565	62.8474	.0010	2.7385	46.2725	50.0709	.0010
	.8692	330.1172	63.8833	.0010	2.8267	37.2945	61.4662	.0010
	.9728	484.1254	72.8614	.0010	3.0685	28.6617	41.0929	.0010
	1.0732	724.8064	84.2566	.0010	3.1552	.0010	39.0210	.0010
	1.1675	717.2096	82.1847	.0010	3.2167	.0010	37.9851	.0010
	1.2063	730.6767	77.6957	.0010	3.2916	59.7396	49.0350	.0010
	1.2775	751.7465	83.2207	.0010	3.3923	182.3246	56.9771	.0010
	1.3216	851.1160	84.2566	.0010	3.4554	267.2708	67.6817	.0010
	1.3805	839.1040	86.3285	.0010	3.5116	359.4686	84.6019	.0010
	1.4282	909.2019	84.2566	.0010	3.5518	89.0909	78.7895	.0010
	1.4750	815.9901	86.3285	.0010	3.5849	150.9014	80.8035	.0010
	1.5630	751.7406	76.6598	.0010	3.6090	197.5182	91.8534	.0010
	1.5674	785.2356	82.8754	.0010				

REACTION PI- P = P PI-

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
APLIN	NP	B32	253 71	COUNTERS	12.0 P/C	DSIG/DOOM	VS COST PI- ,PI-	
DATA AT 2.3500 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0919	22906.1115	2700.8715	.0010	1.1211	622.2269	338.4645	.0010	
.1287	21880.4642	2324.8008	.0010	1.2313	605.1329	348.7210	.0010	
.1838	16888.9804	1470.0947	.0010	1.3416	485.4739	382.9093	.0010	
.2389	10735.1073	1504.2829	.0010	1.5989	362.3962	116.2410	.0010	
.2757	6700.8936	1162.4005	.0010	1.8195	748.7235	423.9350	.0010	
.3124	5230.8007	1025.6475	.0010	1.9665	324.7892	273.5069	.0010	
.3492	3453.0112	786.3305	.0010	2.0767	529.9187	280.3444	.0010	
.3860	3186.3446	769.2363	.0010	2.1870	294.0197	208.5492	.0010	
.4227	1340.1794	509.4058	.0010	2.2973	225.6433	174.3610	.0010	
.4595	622.2269	348.7210	.0010	2.4627	34.1892	102.5657	.0010	
.4962	902.5698	420.5162	.0010	2.6281	51.2834	112.8221	.0010	
.5330	1056.4169	434.1916	.0010	2.7384	30.7704	112.8221	.0010	
.5697	731.6294	358.9774	.0010	2.8486	30.7704	136.7539	.0010	
.6065	300.8575	256.4128	.0010	2.9589	54.7022	126.4974	.0010	
.6432	540.1752	297.4385	.0010	3.0875	249.5750	136.7539	.0010	
.6984	82.0527	150.4292	.0010	3.2346	157.2669	123.0786	.0010	
.7903	246.1562	147.0104	.0010	3.3816	461.5422	170.9422	.0010	
.9005	444.4481	196.2928	.0010	3.4919	427.3541	256.4128	.0010	
1.0108	386.3281	287.1822	.0010	3.5654	198.2928	345.3021	.0010	

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
BUSZA	PR	180	1339 69	SPARK CHAMBERS	NOT GIVEN	DSIG/DOOM	VS COST PI- ,PI-	
DATA AT 2.3800 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0000	62558.6925	6255.8701	.0010	2.2405	81.9231	44.6858	.0010	
.1544	20879.9798	536.5569	.0010	2.3760	34.5301	42.6547	.0010	
.1969	15088.2231	657.7474	.0010	2.5163	14.5574	43.6702	.0010	
.2237	12818.4394	610.3545	.0010	2.6607	78.5379	50.4406	.0010	
.2625	8779.8832	349.6933	.0010	2.7865	43.6702	53.4873	.0010	
.2992	6157.8547	280.9735	.0010	* 2.8303	30.0010	7.0010	.0010	
.3428	4170.2419	324.6427	.0010	2.8771	43.6702	68.3823	.0010	
.3783	3118.1185	185.1720	.0010	* 2.9233	20.0010	4.0010	.0010	
.4323	2038.9133	48.4095	.0010	* 3.0163	14.0010	3.0010	.0010	
.4863	1223.4161	115.0982	.0010	* 3.1083	8.0010	2.0010	.0010	
.6236	277.2497	91.7402	.0010	3.1368	.0010	41.3006	.0010	
.6918	298.5766	72.4445	.0010	* 3.1783	17.0010	5.0010	.0010	
.7866	311.7789	71.4289	.0010	3.2244	.0010	40.2850	.0010	
.8957	488.8254	79.5534	.0010	* 3.2253	26.0010	6.0010	.0010	
1.0021	473.5920	76.1682	.0010	* 3.2713	53.0010	8.0010	.0010	
1.1053	588.6891	82.9387	.0010	3.2864	130.3316	61.2733	.0010	
1.2204	720.0353	88.3550	.0010	* 3.3173	58.0010	8.0010	.0010	
1.2232	658.5801	81.2461	.0010	3.3621	.0010	47.3939	.0010	
1.3147	745.0858	89.0320	.0010	* 3.3643	65.0010	10.0010	.0010	
1.3395	722.4049	82.6001	.0010	* 3.4103	98.0010	13.0010	.0010	
1.4203	614.0782	79.5534	.0010	* 3.4573	127.0010	13.0010	.0010	
1.4481	754.5644	82.9387	.0010	3.4634	177.7246	56.5340	.0010	
1.5168	734.5917	88.3550	.0010	* 3.5033	134.0010	10.0010	.0010	
1.5855	809.4048	84.9698	.0010	3.5271	285.3743	73.1215	.0010	
1.6113	721.7279	84.6313	.0010	* 3.5493	140.0010	10.0010	.0010	
1.7063	704.1248	82.6001	.0010	3.5837	307.3781	82.9387	.0010	
1.7195	661.4711	81.5846	.0010	* 3.5963	143.0010	10.0010	.0010	
1.8056	520.9849	73.7986	.0010	3.6244	361.5415	107.6507	.0010	
1.8307	626.9420	76.1682	.0010	* 3.6423	92.0010	8.0010	.0010	
1.8990	417.7360	68.3823	.0010	3.6576	207.1759	95.1254	.0010	
1.9673	533.8487	73.1215	.0010	3.6817	562.6230	137.1020	.0010	
2.1141	303.6544	61.6118	.0010					

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES		
APLIN	NP	B32	253 71	COUNTERS	12.0 P/C	DSIG/DOOM	VS COST PI- ,PI-	
* CRITTENDEN	PR	1	3050 70	SPARK CHAMBERS	7.0 P/C	DSIG/DT	VS -T PI- ,P	
DATA AT 2.4100 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.3400	4420.0010	160.0010	.0010	.5160	801.0010	60.0010	.0010	
.3610	3530.0010	140.0010	.0010	.5400	637.0010	53.0010	.0010	
.3820	2740.0010	120.0010	.0010	.5630	533.0010	47.0010	.0010	
.4030	2540.0010	120.0010	.0010	.5870	349.0010	39.0010	.0010	
.4250	2000.0010	100.0010	.0010	.6110	376.0010	40.0010	.0010	
.4480	1550.0010	90.0010	.0010	.6370	352.0010	39.0010	.0010	
.4700	1170.0010	70.0010	.0010	.6610	272.0010	35.0010	.0010	
.4930	914.0010	65.0010	.0010	.6850	287.0010	36.0010	.0010	

REACTION $\pi^- p = p \pi^-$

REFERENCE	TECHNIQUE			SYSTEMATIC ERROR	MEASURED VARIABLES		
FELLINGER	PR	2 1777	70	SPARK CHAMBERS	5.0 P/C	DSIG/DT	VS -T π^- , π^-
DATA AT 2.4120 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.9632	19.7710	4.3610	.0010	3.5379	169.8810	14.6810	.0010
3.0376	11.3910	4.5710	.0010	3.5639	195.7610	16.3810	.0010
3.1088	10.1410	4.4310	.0010	3.5868	191.4110	17.5510	.0010
3.1766	17.8410	4.8810	.0010	3.6175	244.4210	14.1810	.0010
3.2375	16.4310	5.6610	.0010	3.6547	215.1310	13.0110	.0010
3.2945	32.5310	6.4810	.0010	3.6878	207.5810	12.8910	.0010
3.3471	71.2710	7.7710	.0010	3.7156	152.7510	12.4910	.0010
3.3942	81.8710	9.3610	.0010	3.7374	131.5510	11.4010	.0010
3.4364	112.5110	10.8410	.0010	3.7531	85.8710	10.5610	.0010
3.4744	137.9210	11.5510	.0010	3.7633	63.2610	10.2210	.0010
3.5081	148.3210	13.4010	.0010	3.7687	65.4510	11.2710	.0010

REFERENCE	TECHNIQUE			SYSTEMATIC ERROR	MEASURED VARIABLES		
OTT	PL	428 133	72	COUNTERS	6.0 P/C	DSIG/DT	VS -T π^- , π^-
DATA AT 2.4600 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	60091.5642	6009.1573	.0010	1.6297	454.0261	65.4666	.0010
* .1350	22180.1262	1595.9279	.0010	1.6998	496.6928	66.7694	.0010
.1576	18737.7494	483.0134	.0010	* 1.7362	208.4485	81.4258	.0010
* .1736	13711.9385	1237.6584	.0010	1.7549	480.7335	68.7236	.0010
.2010	13861.1216	598.6367	.0010	* 1.8124	403.5427	61.5582	.0010
* .2122	10910.9329	1074.8087	.0010	1.8840	379.4410	60.9068	.0010
.2284	10220.1265	503.8582	.0010	1.9021	340.6827	58.9526	.0010
* .2508	9152.1554	977.0988	.0010	* 1.9677	280.1924	107.4818	.0010
.2680	7878.0726	313.9753	.0010	1.9994	294.7591	56.6727	.0010
* .2894	5667.1720	749.1098	.0010	2.0262	249.4868	53.7414	.0010
.3156	5483.8040	249.4868	.0010	* 2.1221	143.3087	74.9118	.0010
* .3280	5178.6203	781.6797	.0010	2.1792	128.0009	47.2274	.0010
.3501	4546.7664	328.3061	.0010	* 2.2764	87.9398	65.1408	.0010
* .3665	3152.7717	667.6849	.0010	2.3109	78.8203	42.6676	.0010
.3864	2864.8541	167.7363	.0010	* 2.4307	84.6828	71.6548	.0010
* .4051	2162.6451	475.5222	.0010	2.4523	12.0519	37.4564	.0010
.4416	1610.5852	119.5327	.0010	* 2.5851	19.5430	55.3699	.0010
* .4437	1521.0170	420.1532	.0010	2.5989	15.6346	39.4106	.0010
.4971	1014.7840	99.3394	.0010	* 2.7394	19.5430	55.3699	.0010
* .5788	182.3927	218.2196	.0010	2.7502	18.2402	42.0162	.0010
* .6559	110.7388	214.9626	.0010	2.8821	19.5430	47.2274	.0010
.6627	232.8762	83.7058	.0010	* 2.8937	71.6548	55.3699	.0010
* .7331	29.3140	140.0517	.0010	2.9774	.0010	59.2783	.0010
.7346	289.8736	67.7465	.0010	* 3.0480	94.4538	61.8838	.0010
.8347	320.4893	65.7923	.0010	3.1511	.6524	37.1307	.0010
* .8874	110.7388	97.7108	.0010	* 3.2024	55.3699	55.3699	.0010
.9499	422.1076	70.3521	.0010	3.2736	.0010	37.7821	.0010
* 1.0417	387.5833	117.2528	.0010	* 3.3567	58.6269	55.3699	.0010
1.0618	589.1914	78.1689	.0010	3.3629	38.4335	44.9475	.0010
* 1.1704	545.8505	74.2605	.0010	3.4260	.0010	44.6218	.0010
1.1961	198.6776	100.9678	.0010	3.5229	67.7465	58.6269	.0010
1.2549	473.2424	67.7465	.0010	* 3.5110	48.8559	61.8838	.0010
* 1.2717	638.3721	77.5175	.0010	3.6861	224.7337	53.7414	.0010
1.3504	250.7895	120.5098	.0010	* 3.6654	97.7108	84.6828	.0010
1.3753	475.5223	67.4208	.0010	3.6708	186.3011	63.1867	.0010
1.3900	586.2602	74.2605	.0010	3.7283	109.1103	66.4437	.0010
1.4876	489.8531	67.7465	.0010	3.7693	196.3978	73.6061	.0010
1.5043	591.7970	72.9577	.0010	3.8031	241.9958	98.3623	.0010
* 1.5947	517.8632	169.3647	.0010	3.8274	605.4764	132.5607	.0010
1.6112	653.2286	78.1689	.0010				

REFERENCES	TECHNIQUES			SYSTEMATIC ERROR	MEASURED VARIABLES		
APLIN	NP	832 253	71	COUNTERS	10.0 P/C	DSIG/DOH	VS COST π^- , π^-
* BUSZA	PR	180 1339	69	SPARK CHAMBERS	NOT GIVEN	DSIG/DOH	VS COST π^- , π^-
DATA AT 2.4800 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1169	28069.8261	2258.4927	.0010	2.0253	406.5295	70.9822	.0010
.1363	15970.7636	1008.1902	.0010	2.2006	122.6048	51.6237	.0010
.2142	11163.4027	709.8127	.0010	3.1354	67.7558	35.4916	.0010
.2726	5646.2302	387.1710	.0010	* 3.3303	28.0010	14.0010	.0010
* .3700	2290.7568	193.5866	.0010	3.3692	32.0010	13.0010	.0010
.4869	929.2090	125.8313	.0010	* 3.4081	50.0010	16.0010	.0010
.5842	403.3031	90.3407	.0010	* 3.4471	37.0010	14.0010	.0010
* .7011	406.5295	80.6614	.0010	* 3.4860	85.0010	19.0010	.0010
.8179	280.6993	77.4350	.0010	* 3.5258	74.0010	18.0010	.0010
.9348	458.1522	70.9822	.0010	* 3.5639	85.0010	18.0010	.0010
1.0711	316.1898	70.9822	.0010	* 3.6029	101.0010	20.0010	.0010
1.1879	551.7183	90.3407	.0010	* 3.6418	151.0010	24.0010	.0010

TURN TO NEXT PAGE

REACTION PI- P = P PI-

CONTINUATION OF DATA AT 2.480 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
1.3048	396.8503	74.2086	.0010	* 3.6807	125.0010	21.0010	.0010
1.4216	561.3975	83.8878	.0010	* 3.7197	174.0010	24.0010	.0010
1.5579	603.3409	58.0765	.0010	* 3.7586	138.0010	20.0010	.0010
1.6748	561.3975	58.0765	.0010	* 3.7976	127.0010	18.0010	.0010
1.7916	448.4729	77.4350	.0010	* 3.8365	146.0010	18.0010	.0010
1.8890	451.6993	83.8878	.0010	* 3.8582	120.0010	39.0010	.0010

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
ALBROW NP 037 594 72	COUNTERS	NOT GIVEN	VS COST PI- ,PI-
* CARROL PRL 20 607 68	BUBBLE CHAMBER	NOT GIVEN	VS -T PI- ,P

DATA AT 2.4900 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	59184.9541	5918.4963	.0010	1.7732	457.6166	68.0814	.0010
.1589	17892.9322	470.1408	.0010	1.8474	276.1760	52.9881	.0010
.2025	13798.1555	602.1268	.0010	1.9041	359.3497	61.3375	.0010
.2361	10077.8209	503.5387	.0010	1.9386	264.9364	52.6669	.0010
.2700	7359.4235	303.1513	.0010	2.0370	250.1642	52.0247	.0010
.3174	5579.3791	254.6601	.0010	2.0481	216.1240	54.9149	.0010
.3528	4411.0944	325.3095	.0010	2.2035	118.8205	49.4556	.0010
.3894	2704.5896	165.0638	.0010	2.3371	18.9479	40.4639	.0010
.4451	1714.2130	124.6009	.0010	2.4809	16.7000	38.2159	.0010
.5011	1088.6445	103.7272	.0010	2.6300	17.9845	40.1427	.0010
.5774	253.3307	88.9551	.0010	2.7838	40.4639	45.6020	.0010
.7507	329.4842	70.6504	.0010	2.8552	98.9102	67.7602	.0010
.8529	377.3332	68.7236	.0010	2.9180	44.9597	47.8499	.0010
.9703	354.1667	64.8700	.0010	3.0149	65.5123	64.8700	.0010
1.0843	557.7655	77.0731	.0010	3.2013	.0010	40.7850	.0010
1.1949	547.8552	74.1829	.0010	3.3248	15.7366	36.2891	.0010
1.2667	550.0583	70.6504	.0010	3.4148	132.6292	51.0613	.0010
1.2980	523.4491	71.9350	.0010	3.4784	98.5891	46.8865	.0010
1.3886	543.3593	69.3659	.0010	3.5559	69.3659	57.8051	.0010
1.4181	395.3167	63.2644	.0010	3.6596	164.4215	51.0613	.0010
1.5023	527.9449	68.7236	.0010	3.7247	289.0214	66.4757	.0010
1.5304	506.4289	69.3659	.0010	3.7824	132.3081	69.0448	.0010
1.6330	477.3480	68.7236	.0010	3.8576	196.2137	96.6623	.0010
1.6463	444.1293	64.8700	.0010	3.8822	295.7652	109.8287	.0010
1.7331	432.5682	63.5855	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
APLIN NP 032 253 71	COUNTERS	10.0 P/C	VS COST PI- ,PI-

DATA AT 2.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0690	34460.0010	900.0008	.0010	* 1.7377	479.4504	60.7325	.0010
.0880	28420.0010	830.0008	.0010	* 1.8262	338.8190	47.9469	.0010
.1080	24870.0010	740.0008	.0010	* 1.8700	470.0008	48.0010	.0010
.1280	21670.0010	700.0008	.0010	* 1.8871	348.4032	76.7145	.0010
.1470	18600.0010	640.0008	.0010	* 1.9854	252.5163	35.1614	.0010
.1570	16270.0010	580.0008	.0010	* 2.0600	302.0008	35.0010	.0010
* .1809	12433.9827	1598.1992	.0010	* 2.0797	220.5523	57.5361	.0010
.1870	14420.0010	580.0008	.0010	* 2.1898	111.8749	51.1433	.0010
.2060	12950.0010	540.0008	.0010	* 2.2600	160.0009	24.0010	.0010
* .2260	10610.0010	480.0008	.0010	* 2.3707	172.6064	102.2857	.0010
.2379	8182.7756	831.0640	.0010	* 2.4600	53.0010	14.0010	.0010
.2460	9599.9971	450.0008	.0010	* 2.6321	76.7145	76.7145	.0010
.2650	8019.9971	420.0008	.0010	* 2.6500	29.0010	12.0010	.0010
.2850	7099.9971	390.0008	.0010	* 2.8500	14.0010	5.0010	.0010
* .3027	5012.3612	172.6064	.0010	+ 2.9982	25.0010	10.0010	.0010
.3050	5750.0010	350.0008	.0010	* 3.0500	25.0010	8.0010	.0010
.3250	4539.9971	310.0008	.0010	+ 3.0962	16.0010	6.0010	.0010
.3440	3640.0003	270.0008	.0010	+ 3.1952	15.0010	5.0010	.0010
.3640	3580.0008	270.0008	.0010	* 3.2400	31.0010	8.0010	.0010
* .3735	2863.9721	111.8749	.0010	+ 3.2932	13.0010	4.0010	.0010
.3830	2596.0000	230.0009	.0010	+ 3.3912	21.0010	5.0010	.0010
.4130	2410.0008	160.0009	.0010	* 3.4400	41.0010	11.0010	.0010
* .4482	1626.9667	76.7145	.0010	+ 3.4642	46.0010	11.0010	.0010
.4520	1660.0008	130.0010	.0010	+ 3.5142	66.0010	13.0010	.0010
.4910	1240.0008	120.0009	.0010	+ 3.5632	64.0010	13.0010	.0010
* .5268	738.3685	54.3397	.0010	+ 3.6122	73.0010	16.0010	.0010
.5310	825.0008	89.0010	.0010	* 3.6400	138.0009	18.0010	.0010
* .5706	480.0008	74.0009	.0010	+ 3.6612	98.0010	18.0010	.0010
.6113	386.7650	47.9469	.0010	+ 3.7102	145.0010	16.0010	.0010
.6880	329.0008	35.0010	.0010	+ 3.7592	120.0010	14.0010	.0010
* .7018	313.2478	44.7505	.0010	* 3.7700	162.0009	29.0010	.0010
* .7922	255.7127	44.7505	.0010	+ 3.8092	110.0010	13.0010	.0010
.8840	374.0008	38.0010	.0010	* 3.8381	160.9715	56.8969	.0010
* .8865	335.0226	44.7505	.0010	* 3.8479	131.8523	31.0700	.0010
* .9789	450.6929	57.5361	.0010	* 3.8577	108.9662	24.3575	.0010
1.0800	473.0008	48.0010	.0010	+ 3.8582	84.0010	12.0010	.0010
* 1.0851	530.6028	44.7505	.0010	* 3.8600	106.0009	19.0010	.0010
* 1.1716	447.4965	57.5361	.0010	* 3.8675	214.1915	32.6682	.0010
* 1.2679	514.6208	57.5361	.0010	* 3.8774	154.1632	26.4352	.0010

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REACTION PI- P = P PI-

CONTINUATION OF DATA AT 2.500 GEV/C

	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	1.2900	620.0008	54.0010	.0010	\$	3.8872	179.4787	27.0745	.0010
*	1.4035	613.7091	38.3578	.0010	\$	3.8970	96.9157	18.6360	.0010
	1.4700	521.0008	48.0010	.0010	\$	3.9069	122.2312	20.1063	.0010
*	1.5549	645.6731	54.3397	.0010	\$	3.9167	116.2859	17.1337	.0010
*	1.6473	453.8893	60.7325	.0010	\$	3.9236	103.8519	20.7776	.0010
	1.6700	467.0008	45.0010	.0010	\$	3.9275	102.7651	17.6131	.0010

	REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
COFFIN	PR 159 1169 67	SPARK CHAMBERS	5.0 P/C	DSIG/DT VS -T PI- ,PI-
* HILL	PR 1 729 70	COUNTERS	5.0 P/C	DSIG/DT VS COST PI- ,PI-
* CRITTENDEN	PR 1 3050 70	SPARK CHAMBERS	7.0 P/C	DSIG/DT VS -T PI- ,P
\$ HEANLEY	PR 6 740 72	SPARK CHAMBERS	7.0 P/C	DSIG/DT VS COST PI- ,PI-

DATA AT 2.5100 GEV/C FOLLOW

	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	.3670	3660.0010	140.0010	.0010		.6850	268.0010	33.0010	.0010
	.3900	3030.0010	130.0010	.0010		.7110	235.0010	31.0010	.0010
	.4130	2440.0010	110.0010	.0010		.7380	249.0010	32.0010	.0010
	.4350	2020.0010	100.0010	.0010	*	2.3710	58.1010	8.7010	.0010
	.4590	1600.0010	90.0010	.0010	*	2.4040	51.8010	8.1010	.0010
	.4820	1280.0010	80.0010	.0010	*	2.4390	44.7910	7.3010	.0010
	.5060	1100.0010	70.0010	.0010	*	2.4730	33.4010	6.9010	.0010
	.5310	839.0010	60.0010	.0010	*	2.5240	23.5010	3.9010	.0010
	.5560	600.0010	49.0010	.0010	*	2.5930	19.2010	3.5010	.0010
	.5810	554.0010	47.0010	.0010	*	2.6630	19.7010	3.5010	.0010
	.6070	518.0010	45.0010	.0010	*	2.7300	26.2010	5.3010	.0010
	.6320	389.0010	39.0010	.0010	*	2.8370	28.3010	3.6010	.0010
	.6590	347.0010	37.0010	.0010	*	2.8890	29.3010	4.7010	.0010

	REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
FELLINGER	PR 2 1777 70	SPARK CHAMBERS	5.0 P/C	DSIG/DT VS -T PI- ,PI-
* FELLINGER	PRL 23 600 69	COUNTERS	7.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 2.5150 GEV/C FOLLOW

	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	3.1342	13.3410	3.6410	.0010		3.7224	129.7310	11.3210	.0010
	3.2107	10.3710	4.0410	.0010		3.7489	140.7810	12.4710	.0010
	3.2838	7.6310	4.1010	.0010		3.7722	148.7410	14.2210	.0010
	3.3534	13.7110	4.8010	.0010		3.8034	160.2310	10.9610	.0010
	3.4158	22.7910	5.1710	.0010		3.8412	156.5810	10.2210	.0010
	3.4741	53.0010	5.7510	.0010		3.8749	151.0110	10.0210	.0010
	3.5278	50.6610	7.2010	.0010		3.9031	142.2310	10.5310	.0010
	3.5759	78.0810	8.2310	.0010		3.9252	107.3610	9.1310	.0010
	3.6191	106.5710	9.0810	.0010		3.9412	92.7610	8.9910	.0010
	3.6578	108.5710	9.1710	.0010		3.9515	89.9410	10.0910	.0010
	3.6921	137.5710	10.9610	.0010		3.9569	77.3910	9.6710	.0010

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OTT	PL 42B 133 72	COUNTERS	6.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 2.5300 GEV/C FOLLOW

	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	.4983	1197.9046	100.8771	.0010		2.2921	356.2198	63.0485	.0010
	.6976	630.4769	69.3533	.0010		2.4915	230.1246	47.2867	.0010
	.8969	567.4292	69.3533	.0010		2.6908	368.8294	69.3533	.0010
	1.0962	630.4769	69.3533	.0010		2.8901	412.9627	72.5057	.0010
	1.2956	419.2674	66.2009	.0010		3.0894	315.2388	63.0485	.0010
	1.4949	299.4769	63.0485	.0010		3.2887	252.1913	47.2867	.0010
	1.6942	299.4769	94.5723	.0010		3.4880	397.2008	78.8104	.0010
	1.8935	346.7626	63.0485	.0010		3.6873	346.7626	85.1152	.0010
	2.0928	450.7911	69.3533	.0010					

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
LAI	PRL 7 125 61	SPARK CHAMBERS	NOT GIVEN	DSIG/DT VS COST PI- ,PI-

REACTION PI- P = P PI-

DATA AT 2.5600 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1010	28079.1167	2487.6306	.0010	.9093	314.0641	130.6015	.0010
.1415	23539.1913	2021.1999	.0010	1.0305	559.7176	171.0255	.0010
.1819	17475.5922	1585.8646	.0010	1.2124	419.7886	124.3825	.0010
.2223	10603.5247	1119.4339	.0010	1.3942	357.5977	174.1351	.0010
.2627	11163.2393	1212.7201	.0010	1.5155	335.8310	164.8065	.0010
.3031	7556.1760	963.9570	.0010	1.7984	394.9122	77.7394	.0010
.3435	4913.0702	777.3855	.0010	1.9600	323.3929	171.0255	.0010
.3839	4073.4935	684.0992	.0010	2.2625	276.7498	180.3541	.0010
.4243	1719.5748	444.6647	.0010	2.4248	62.1917	31.0964	.0010
.4850	1505.1166	286.0783	.0010	2.9501	3.1105	27.9868	.0010
.5658	705.8661	205.2304	.0010	3.5967	6.2201	37.3155	.0010
.6466	317.1738	143.0397	.0010	3.8392	158.5874	124.3825	.0010
.7372	130.0015	130.0015	.0010	3.9200	345.1595	189.6828	.0010
.7981	314.0641	115.0538	.0010				

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 BUSZA PR 180 1339 69 SPARK CHAMBERS NOT GIVEN DSIG/DT VS COST PI- ,PI-

DATA AT 2.6000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
3.2762	3.2710	3.3510	.0010	3.8751	95.0510	10.2810	.0010
3.3544	4.3210	4.1910	.0010	3.9020	103.0010	11.2610	.0010
3.4290	11.4310	4.5110	.0010	3.9256	108.2410	13.1410	.0010
3.4999	28.8710	4.9710	.0010	3.9572	122.9410	10.1410	.0010
3.5635	29.1710	5.2710	.0010	3.9955	107.9110	8.8910	.0010
3.6229	40.2310	5.7610	.0010	4.0296	113.5110	9.4910	.0010
3.6775	52.8510	6.9210	.0010	4.0481	118.8910	9.8110	.0010
3.7264	67.3810	8.1310	.0010	4.0805	98.6210	9.5010	.0010
3.7703	81.4610	8.6410	.0010	4.0966	82.1710	9.0010	.0010
3.8096	93.1010	8.8310	.0010	4.1070	93.9710	9.9010	.0010
3.8444	104.2110	9.7310	.0010	4.1125	92.3210	9.7110	.0010

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 UTT PL 428 133 72 COUNTERS 6.0 P/C DSIG/DT VS -T PI- ,PI-

DATA AT 2.6200 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.3960	3110.0010	100.0010	.0010	.5980	548.0010	38.0010	.0010
.4200	2450.0010	90.0010	.0010	.6260	435.0010	33.0010	.0010
.4440	2120.0010	80.0010	.0010	.6530	407.0010	32.0010	.0010
.4680	1640.0010	70.0010	.0010	.6810	297.0010	27.0010	.0010
.4940	1250.0010	60.0010	.0010	.7080	262.0010	26.0010	.0010
.5200	1020.0010	50.0010	.0010	.7360	287.0010	27.0010	.0010
.5460	784.0010	47.0010	.0010	.7640	276.0010	27.0010	.0010
.5720	680.0010	43.0010	.0010	.7920	285.0010	28.0010	.0010

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 FELLINGER PR 2 1777 70 SPARK CHAMBERS 5.0 P/C DSIG/DT VS -T PI- ,PI-

DATA AT 2.6500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1052	25006.3029	1643.1870	.0010	2.1662	233.0346	86.6417	.0010
.1472	20016.9906	1284.6735	.0010	2.2924	146.3939	77.6789	.0010
.1893	13713.1290	926.1600	.0010	2.4186	125.4807	65.7284	.0010
.2313	10217.0316	717.9277	.0010	2.5447	56.7656	50.7903	.0010
.2734	7648.2859	627.3995	.0010	2.7340	17.9267	23.9019	.0010
.3155	4750.1014	478.0188	.0010	2.9233	17.9267	29.8771	.0010
.3575	3883.9939	418.2666	.0010	3.1336	2.9886	17.9267	.0010
.3996	2856.1575	340.5886	.0010	* 3.2602	11.0010	6.0010	.0010
.4417	1604.3480	250.9604	.0010	* 3.3652	7.0010	4.0010	.0010
.4837	1320.9248	224.0719	.0010	3.4491	8.9638	17.9267	.0010
.5258	797.6927	173.2824	.0010	* 3.4702	16.0010	4.0010	.0010
.5678	642.3375	161.3320	.0010	* 3.5752	10.0010	4.0010	.0010
.6099	358.5143	119.5054	.0010	* 3.6802	19.0010	4.0010	.0010
.6520	460.4932	131.4559	.0010	* 3.7014	53.7780	32.8647	.0010
.6940	295.7745	116.5178	.0010	* 3.7592	52.0010	10.0010	.0010
.7361	137.4311	71.7036	.0010	* 3.8122	45.0010	10.0010	.0010
.8202	252.3108	62.7408	.0010	* 3.8642	57.0010	12.0010	.0010
.9464	253.9479	68.7160	.0010	* 3.8697	74.6912	35.8523	.0010
1.0726	289.7992	74.6912	.0010	* 3.9172	92.0010	16.0010	.0010
1.1988	555.0968	125.4807	.0010	* 3.9692	81.0010	12.0010	.0010

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REACTION PI- P = P PI-

CONTINUATION OF DATA AT 2.650 GEV/C

-T	DSIG/DT	ERROR		*	-T	DSIG/DT	ERROR	
		+	-				+	-
1.3249	376.4401	101.5798	.0010	*	4.0222	69.0010	9.0010	.0010
1.4511	388.3905	104.5674	.0010	*	4.0752	87.0010	10.0010	.0010
1.5773	212.1214	63.6541	.0010	*	4.1272	64.0010	11.0010	.0010
1.8718	241.9975	38.8400	.0010					

REFERENCES				TECHNIQUES		SYSTEMATIC ERROR		MEASURED VARIABLES	
SUSZA	PR	180	1339	69	SPARK CHAMBERS	NOT GIVEN	DSIG/DOOM	VS COST	PI- ,PI-
* CRITTENDEN	PR	1	3050	70	SPARK CHAMBERS	7.0 P/C	DSIG/DT	VS -T	PI- ,P

DATA AT 2.7320 GEV/C FOLLOW

-T	DSIG/DT	ERROR		*	-T	DSIG/DT	ERROR	
		+	-				+	-
.1525	14422.1639	721.1091	.0010		1.2416	366.3239	25.9609	.0010
.2178	11970.3962	605.7318	.0010		1.3941	372.0928	17.3076	.0010
.2396	8152.9452	403.8216	.0010		1.5466	285.5598	14.4232	.0010
.2832	6259.2197	317.2886	.0010		1.6773	196.1424	11.5387	.0010
.3268	4240.1169	201.9113	.0010		1.8298	233.6400	14.4232	.0010
.3703	3403.6314	173.0670	.0010		1.9605	161.5292	11.5387	.0010
.4139	2232.5518	124.0316	.0010		2.1130	98.0717	14.4232	.0010
.4357	1771.4426	89.4184	.0010		2.2655	69.2274	5.7699	.0010
.5019	1038.3967	63.4585	.0010		2.5051	23.0765	5.7699	.0010
.5882	674.9582	34.6142	.0010		2.7229	2.8854	5.7699	.0010
.6971	317.2886	17.3076	.0010		2.9843	20.1920	5.7699	.0010
.8060	317.2886	14.4232	.0010		3.3328	31.7298	5.7699	.0010
.9802	354.7862	17.3076	.0010		3.6378	31.7298	5.7699	.0010
1.1109	412.4749	20.1920	.0010		3.8992	49.0364	8.6543	.0010

REFERENCE				TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
ALBROM	NP	837	594	72	COUNTERS	NOT GIVEN	DSIG/DOOM	VS COST	PI- ,PI-

DATA AT 2.7600 GEV/C FOLLOW

-T	DSIG/DT	ERROR		*	-T	DSIG/DT	ERROR	
		+	-				+	-
.4396	1980.0010	100.0010	.0010		.8130	241.0010	29.0010	.0010
.4660	1710.0010	90.0010	.0010		.8440	219.0010	28.0010	.0010
.4930	1350.0010	80.0010	.0010		.8750	196.0010	27.0010	.0010
.5200	965.0010	63.0010	.0010	*	2.5850	20.2010	4.8010	.0010
.5470	853.0010	59.0010	.0010	*	2.6420	15.4010	3.4010	.0010
.5760	758.0010	54.0010	.0010	*	2.7180	13.6010	3.2010	.0010
.6050	582.0010	47.0010	.0010	*	2.7960	17.8010	3.0010	.0010
.6330	467.0010	41.0010	.0010	*	2.8730	18.8010	3.2010	.0010
.6630	394.0010	37.0010	.0010	*	2.9540	23.9010	3.3010	.0010
.6920	339.0010	34.0010	.0010	*	3.0120	18.6010	4.1010	.0010
.7230	339.0010	34.0010	.0010	*	3.1080	25.5010	4.2010	.0010
.7530	291.0010	32.0010	.0010	*	3.1730	37.1010	6.8010	.0010
.7830	340.0010	34.0010	.0010					

REFERENCES				TECHNIQUES		SYSTEMATIC ERROR		MEASURED VARIABLES	
FELLINGER	PR	2	1777	70	SPARK CHAMBERS	5.0 P/C	DSIG/DT	VS -T	PI- ,PI-
* FELLINGER	PRL	23	600	69	COUNTERS	7.0 P/C	DSIG/DT	VS -T	PI- ,PI-

DATA AT 2.7700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		*	-T	DSIG/DT	ERROR	
		+	-				+	-
.0500	39500.0010	645.0010	.0010		2.8551	21.0010	6.0010	.0010
.0700	33600.0010	590.0010	.0010		2.9500	21.0010	7.0010	.0010
.0900	28800.0010	553.0010	.0010		2.9551	19.0010	6.0010	.0010
.1100	25000.0010	515.0010	.0010		3.0500	15.0010	5.0010	.0010
.1300	21500.0010	478.0010	.0010		3.0551	19.0010	6.0010	.0010
.1500	8700.0010	132.0010	.0010		3.1500	30.0010	8.0010	.0010
.1700	4000.0010	90.0010	.0010		3.1551	28.0010	7.0010	.0010
.1900	1800.0010	60.0010	.0010		3.2500	23.0010	7.0010	.0010
.2100	812.0010	40.0010	.0010		3.2551	23.0010	6.0010	.0010
.2300	377.0010	28.0010	.0010		3.3500	32.0010	8.0010	.0010
.2500	241.0010	22.0010	.0010		3.3551	26.0010	7.0010	.0010
.2700	217.0010	21.0010	.0010		3.4500	19.0010	6.0010	.0010
.2900	236.0010	22.0010	.0010		3.4551	15.0010	5.0010	.0010
.3100	300.0010	24.0010	.0010		3.5500	8.5010	4.0010	.0010
.3300	298.0010	24.0010	.0010		3.5551	11.0010	4.0010	.0010
.3500	292.0010	24.0010	.0010		3.6500	6.4010	3.0010	.0010
.3700	351.0010	26.0010	.0010		3.6551	6.0010	3.0010	.0010
.3900	315.0010	24.0010	.0010		3.7500	15.0010	5.0010	.0010
.4100	224.0010	22.0010	.0010		3.7551	21.0010	6.0010	.0010
.4300	248.0010	22.0010	.0010		3.8551	15.0010	5.0010	.0010
.4500	217.0010	22.0010	.0010		3.8500	19.0010	6.0010	.0010
.4700	170.0010	19.0010	.0010		3.9500	30.0010	8.0010	.0010

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REACTION $\pi^- - p = p \pi^-$

CONTINUATION OF DATA AT 2.770 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
1.9500	158.0010	17.0010	.0010	3.9551	30.0010	8.0010	.0010
2.0500	121.0010	16.0010	.0010	4.0500	47.0010	9.0010	.0010
2.1500	107.0010	15.0010	.0010	4.0551	58.0010	10.0010	.0010
2.2500	100.0010	14.0010	.0010	4.1500	51.0010	10.0010	.0010
2.3500	66.0010	11.0010	.0010	4.1551	51.0010	10.0010	.0010
2.4500	45.0010	10.0010	.0010	4.2500	55.0010	10.0010	.0010
2.5500	38.0010	9.0010	.0010	4.2551	47.0010	9.0010	.0010
2.6500	17.0010	6.0010	.0010	4.3500	62.0010	11.0010	.0010
2.7500	17.0010	6.0010	.0010	4.4051	53.0010	10.0010	.0010
2.8500	17.0010	6.0010	.0010				

REFERENCE	TECHNIQUE			SYSTEMATIC ERROR	MEASURED VARIABLES						
BATON	NP	B21	551	70	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS	-T	PI-	PI-

DATA AT 2.8000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1120	22095.8556	1514.1839	.0010	3.3387	44.8657	33.6495	.0010
.1569	19544.1769	1261.8201	.0010	3.4732	2.8050	30.8455	.0010
.2017	14188.4558	953.3754	.0010	3.4763	16.0010	4.0010	.0010
.2465	9791.3879	701.0116	.0010	3.5853	21.0010	4.0010	.0010
.2913	6673.6220	588.8499	.0010	3.6076	42.0616	36.4536	.0010
.3361	4654.7115	476.6882	.0010	3.6973	12.0010	2.0010	.0010
.3809	3364.8519	392.5669	.0010	3.7813	16.0010	3.0010	.0010
.4258	2027.3237	277.6012	.0010	3.8373	20.0010	4.0010	.0010
.4706	1640.3658	252.3648	.0010	3.8541	28.0414	16.8253	.0010
.5154	933.7471	187.8718	.0010	3.8933	26.0010	4.0010	.0010
.5602	569.2216	148.6153	.0010	3.9493	41.0010	6.0010	.0010
.6050	403.7831	131.7910	.0010	4.0053	29.0010	5.0010	.0010
.6498	257.9729	106.5546	.0010	4.0613	33.0010	5.0010	.0010
.6946	147.8033	126.1829	.0010	4.1173	31.0010	5.0010	.0010
.7395	322.4659	120.5748	.0010	4.1230	120.5748	39.2576	.0010
.7843	193.4799	86.9263	.0010	4.1733	33.0010	6.0010	.0010
.8291	123.3789	75.7101	.0010	4.2293	41.0010	5.0010	.0010
.8739	347.7023	123.3789	.0010	4.2575	154.2233	72.9061	.0010
.9635	238.3446	67.2980	.0010	4.2853	27.0010	4.0010	.0010
1.0980	325.2699	81.3182	.0010	4.3413	41.0010	5.0010	.0010
1.2324	213.1082	75.7101	.0010	4.3471	.0010	95.3384	.0010
1.3669	269.1891	84.1223	.0010	4.3973	46.0010	6.0010	.0010
1.5013	182.2638	72.9061	.0010	4.3975	45.5667	18.6198	.0010
1.6358	221.5204	86.9263	.0010	4.4087	48.8474	16.2925	.0010
1.9495	137.3991	28.0414	.0010	4.4199	58.8018	16.9655	.0010
2.2632	100.9465	67.2980	.0010	4.4311	74.7007	18.1151	.0010
2.3976	137.3991	61.6899	.0010	4.4423	96.0955	19.2087	.0010
2.5321	215.9123	75.7101	.0010	4.4535	74.3081	15.8438	.0010
2.6665	58.8859	42.0616	.0010	4.4647	110.0316	17.3861	.0010
2.8010	39.2576	33.6495	.0010	4.4726	111.6580	22.3212	.0010
2.9354	36.4536	33.6495	.0010	4.4770	133.5575	20.3583	.0010
3.1371	19.6293	19.6293	.0010				

REFERENCES	TECHNIQUES			SYSTEMATIC ERROR	MEASURED VARIABLES						
BUSZA	PR	180	1339	69	SPARK CHAMBERS	NOT GIVEN	DSIG/DT	VS	COST	PI-	PI-
* CRITTENJEN	PR	1	3050	70	SPARK CHAMBERS	7.0 P/C	DSIG/DT	VS	-T	PI-	P
+ MEANLEY	PR	6	740	72	SPARK CHAMBERS	7.0 P/C	DSIG/DT	VS	COST	PI-	PI-

DATA AT 2.8010 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
3.5280	6.3210	3.6210	.0010	4.2376	43.0610	8.2210	.0010
3.6149	4.7210	3.7610	.0010	4.2653	43.5110	9.0010	.0010
3.6968	9.9110	3.7910	.0010	4.2896	47.2310	10.4510	.0010
3.7749	14.6110	4.3010	.0010	4.3221	45.5210	7.9410	.0010
3.8488	15.1510	4.3810	.0010	4.3614	34.1010	7.6010	.0010
3.9150	28.0310	5.1110	.0010	4.3964	58.2010	7.5710	.0010
3.9767	39.6410	5.5810	.0010	4.4256	62.8410	8.9410	.0010
4.0334	38.1610	5.9410	.0010	4.4485	80.6410	8.5310	.0010
4.0840	42.2310	7.1710	.0010	4.4651	80.6910	8.3610	.0010
4.1294	53.3310	6.7410	.0010	4.4757	105.6310	10.1810	.0010
4.1700	39.5810	7.1910	.0010	4.4814	85.1010	9.1410	.0010
4.2060	41.9010	8.2010	.0010				

REFERENCE	TECHNIQUE			SYSTEMATIC ERROR	MEASURED VARIABLES						
OTT	PL	42B	133	72	COUNTERS	6.0 P/C	DSIG/DT	VS	-T	PI-	PI-

REACTION PI- P = P PI-

DATA AT 2.9400 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	55420.2578	5542.0267	.0010	1.5930	172.6258	35.2684	.0010
.1133	23100.4368	475.1833	.0010	1.7020	190.9225	32.8819	.0010
.1562	17248.9593	613.0710	.0010	1.7238	133.6460	30.7606	.0010
.1912	13330.2964	480.4867	.0010	1.8726	191.9831	31.8212	.0010
.2218	11933.3180	500.3743	.0010	1.8752	120.1224	28.6392	.0010
.2521	8644.5004	414.7248	.0010	2.0155	58.3381	22.0100	.0010
.2962	6196.1978	244.7517	.0010	2.0238	126.2213	28.3741	.0010
.3486	4245.0866	192.2483	.0010	2.1423	59.3988	23.6010	.0010
.3879	2828.0251	217.9697	.0010	2.1809	77.1651	24.6617	.0010
.4284	2187.9079	125.1606	.0010	2.2555	59.3988	23.6010	.0010
.4905	1212.6174	87.5067	.0010	2.3551	48.5269	22.0100	.0010
.5531	840.3206	76.6348	.0010	2.4048	33.1471	21.2145	.0010
.6038	650.7250	71.5965	.0010	2.5150	12.1988	18.8280	.0010
.6568	452.9855	56.2168	.0010	2.5444	47.7314	23.0707	.0010
.9208	251.3809	60.4595	.0010	2.6335	16.7066	18.8280	.0010
1.0177	279.4888	50.3831	.0010	2.7086	33.1471	22.8055	.0010
1.1518	282.6708	48.2617	.0010	2.8865	10.3426	21.2145	.0010
1.3047	290.8911	46.1404	.0010	3.0725	16.7066	21.4797	.0010
1.4265	291.1562	40.0415	.0010	3.2661	25.4572	24.9269	.0010
1.4518	221.1517	40.0415	.0010	3.4363	33.1423	28.6392	.0010
1.5686	240.7742	36.3291	.0010	3.5600	30.2302	37.3898	.0010

APLIN	REFERENCE	TECHNIQUE			SYSTEMATIC ERROR	MEASURED VARIABLES	
	NP	B32	253	71	10.0 P/C	DSIG/DOO	VS COST PI- ,PI-
		COUNTERS					

DATA AT 3.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0850	27500.0010	700.0010	.0010	* 3.8082	10.6010	2.3010	.0010
.1090	22100.0010	600.0010	.0010	+ 3.8792	15.6010	3.1010	.0010
.1330	18700.0010	600.0010	.0010	* 3.9452	13.2010	2.2010	.0010
.1570	16000.0010	500.0010	.0010	+ 4.0032	11.2010	2.1010	.0010
.1820	13600.0010	500.0010	.0010	* 4.0100	29.0010	8.0010	.0010
.2060	11900.0010	500.0010	.0010	+ 4.0782	17.0010	2.2010	.0010
.2300	9900.0010	400.0010	.0010	* 4.1222	10.0010	1.7010	.0010
.2540	7050.0010	360.0010	.0010	+ 4.2052	12.3010	1.8010	.0010
.2780	6710.0010	360.0010	.0010	* 4.2132	13.2010	2.6010	.0010
.3030	5500.0010	310.0010	.0010	+ 4.2400	34.0010	8.0010	.0010
.3110	3940.0010	250.0010	.0010	* 4.2742	20.2010	3.4010	.0010
.3270	4290.0010	280.0010	.0010	+ 4.3242	18.0010	2.1010	.0010
.3750	3400.0010	250.0010	.0010	* 4.3342	21.0010	3.4010	.0010
.4000	2580.0010	220.0010	.0010	+ 4.3952	13.7010	2.6010	.0010
.4250	2130.0010	200.0010	.0010	* 4.4232	9.1010	1.5010	.0010
.4500	2030.0010	190.0010	.0010	+ 4.4552	28.0010	3.9010	.0010
.4740	1460.0010	160.0010	.0010	* 4.4800	21.0010	8.0010	.0010
.5100	1260.0010	110.0010	.0010	+ 4.5162	21.8010	4.1010	.0010
.5590	930.0010	90.0010	.0010	* 4.5772	14.8010	3.1010	.0010
.6300	530.0010	50.0010	.0010	+ 4.6272	13.0010	3.3010	.0010
.7270	366.0010	40.0010	.0010	* 4.6372	11.9010	2.9010	.0010
.8240	305.0010	38.0010	.0010	+ 4.6462	10.1010	2.2010	.0010
.9210	274.0010	37.0010	.0010	* 4.6652	10.9010	2.0010	.0010
1.0900	252.0010	36.0010	.0010	+ 4.6852	7.2010	1.4010	.0010
1.3300	272.0010	28.0010	.0010	* 4.6982	12.2010	2.9010	.0010
1.5800	191.0010	26.0010	.0010	+ 4.7042	11.8010	1.6010	.0010
1.8200	181.0010	23.0010	.0010	* 4.7200	26.0010	8.0010	.0010
2.0600	114.0010	18.0010	.0010	+ 4.7232	14.3010	1.6010	.0010
2.3000	88.0010	13.0010	.0010	* 4.7432	12.1010	1.4010	.0010
2.5500	31.0010	8.0010	.0010	+ 4.7592	23.1010	3.6010	.0010
2.7900	10.5010	5.0010	.0010	* 4.7622	19.4010	1.6010	.0010
3.0400	5.0010	3.0010	.0010	+ 4.7822	22.2010	1.7010	.0010
3.2800	34.0010	8.0010	.0010	* 4.8012	30.2010	2.1010	.0010
3.5200	39.0010	8.0010	.0010	+ 4.8212	42.0010	2.6010	.0010
* 3.6662	14.2010	3.5010	.0010	* 4.8402	43.3010	3.0010	.0010
3.7600	23.0010	8.0010	.0010				

COFFIN	REFERENCE	TECHNIQUES			SYSTEMATIC ERROR	MEASURED VARIABLES	
* CHASE	PR	159	1169	67	5.0 P/C	DSIG/DT	VS -T PI- ,PI-
+ CRITTENDEN	PR	2	2588	70	NOT GIVEN	DSIG/JT	VS -T PI- ,P
\$ BRABSON	PL	1	3050	70	7.0 P/C	DSIG/DT	VS -T PI- ,P
		42B	283	72	12.0 P/C	DSIG/DT	VS -T PI- ,P

DATA AT 3.0060 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
3.8732	1.5710	3.5410	.0010	4.6090	9.1010	7.7010	.0010
3.9641	3.1310	3.4310	.0010	4.6374	11.4910	7.8710	.0010
4.0496	.4410	4.0410	.0010	4.6623	13.9710	9.2810	.0010
4.1308	13.5310	4.4010	.0010	4.6956	12.4810	7.1310	.0010
4.2076	21.9310	4.9210	.0010	4.7359	25.4210	7.8410	.0010
4.2762	12.2710	5.0410	.0010	4.7717	27.7810	7.4710	.0010
4.3401	26.4110	5.6610	.0010	4.8016	48.8310	8.5410	.0010
4.3986	25.6110	5.9910	.0010	4.8250	46.9610	8.1910	.0010
4.4509	28.0010	7.0610	.0010	4.8419	52.5910	8.6810	.0010

TURN TO NEXT PAGE

REACTION $\pi^- p = p \pi^-$

CONTINUATION OF DATA AT 3.006 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
4.4976	18.0310	5.3010	.0010	4.8527	41.9310	9.6610	.0010
4.5394	8.0810	6.8710	.0010	4.8585	70.2110	9.3410	.0010
4.5764	6.6510	6.9810	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OTT PL 42B 133 72	COUNTERS	6.0 P/C	VS -T PI- ,PI-

DATA AT 3.0100 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.5150	1200.0010	70.0010	.0010	.8420	259.0010	27.0010	.0010
.5450	1000.0010	60.0010	.0010	.8760	275.0010	28.0010	.0010
.5770	755.0010	52.0010	.0010	* 2.8120	7.4010	2.3010	.0010
.6080	611.0010	46.0010	.0010	* 2.8950	10.5010	2.5010	.0010
.6390	496.0010	41.0010	.0010	* 2.9800	12.1010	2.8010	.0010
.6720	435.0010	38.0010	.0010	* 3.0650	14.1010	2.7010	.0010
.7050	364.0010	34.0010	.0010	* 3.1560	18.5010	3.2010	.0010
.7390	334.0010	32.0010	.0010	* 3.2440	19.9010	2.8010	.0010
.7730	283.0010	29.0010	.0010	* 3.3760	18.9010	2.8010	.0010
.8080	266.0010	28.0010	.0010	* 3.4430	27.5010	4.1010	.0010

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
FELLINGER PR 2 1777 70	SPARK CHAMBERS	5.0 P/C	VS -T PI- ,PI-
+ FELLINGER PRL 23 600 69	COUNTERS	7.0 P/C	VS -T PI- ,PI-

DATA AT 3.1500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0897	22798.8936	1568.9570	.0010	.5382	637.3894	171.6056	.0010
.1282	15076.6880	833.5089	.0010	.5895	759.9641	196.1205	.0010
.1794	12232.9552	710.9342	.0010	.7433	169.1541	53.9339	.0010
.2307	7722.2066	563.8446	.0010	.9996	88.2548	46.5794	.0010
.2819	5099.1082	465.7848	.0010	1.3712	88.2548	41.6764	.0010
.3332	2353.4351	269.6653	.0010	2.2555	46.5794	24.5159	.0010
.3845	1568.9570	269.6653	.0010	3.3319	.0010	.0010	.0010
.4357	1103.1732	220.6354	.0010	4.3443	7.3555	7.3555	.0010
.4870	1176.7180	220.6354	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
PERL PR 132 1252 63	SPARK CHAMBERS	8.0 P/C	VS COST PI- ,PI-

DATA AT 3.3000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
5.3030	14.8864	6.0482	.0010	5.3678	23.4921	4.1875	.0010
5.3246	17.9100	6.0482	.0010	5.3894	24.6550	3.7224	.0010
5.3462	19.0730	4.4201	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BAKER NP B9 249 69	SPARK CHAMBERS	NOT GIVEN	VS COST PI- ,PI-

DATA AT 3.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0720	27190.0010	660.0010	.0010	1.0100	225.0010	15.0010	.0010
.1010	21770.0010	580.0010	.0010	1.3000	182.0010	18.0010	.0010
.1300	18580.0010	530.0010	.0010	1.5900	132.0010	15.0010	.0010
.1590	15950.0010	480.0010	.0010	1.8700	87.0010	14.0010	.0010
.1870	11580.0010	410.0010	.0010	2.1600	37.0010	8.0010	.0010
.2160	9210.0010	370.0010	.0010	2.4500	5.3010	3.6010	.0010
.2450	8050.0010	340.0010	.0010	2.7400	2.0010	2.0010	.0010
.2740	6370.0010	300.0010	.0010	3.0300	2.0010	2.0010	.0010
.3030	5180.0010	270.0010	.0010	3.3200	5.6010	3.1010	.0010
.3320	4270.0010	250.0010	.0010	3.6100	9.2010	3.9010	.0010
.3610	3130.0010	210.0010	.0010	3.9000	16.0010	5.0010	.0010
.3900	2610.0010	190.0010	.0010	4.1800	4.7010	2.8010	.0010
.4150	1950.0010	170.0010	.0010	4.4700	.9990 U	.0010	.0010

TURN TO NEXT PAGE

REACTION PI- P = P PI-

CONTINUATION OF DATA AT 3.500 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.4470	1480.0010	150.0010	.0010	4.7600	2.0010	2.0010	.0010
.4760	1590.0010	150.0010	.0010	5.0500	2.0010	2.0010	.0010
.5050	1180.0010	130.0010	.0010	5.3400	4.4010	2.6010	.0010
.5340	996.0010	120.0010	.0010	5.6100	7.4010	3.5010	.0010
.5630	750.0010	106.0010	.0010	* 5.7077	22.3575	4.0500	.0010
.6060	539.0010	63.0010	.0010	* 5.7438	30.3902	4.8337	.0010
.6640	377.0010	55.0010	.0010	* 5.7649	26.2106	4.9425	.0010
.7790	204.0010	22.0010	.0010				

U=UPPER LIMIT

REFERENCES				TECHNIQUES		SYSTEMATIC ERROR		MEASURED VARIABLES	
COFFIN	PR	159	1169	67	SPARK CHAMBERS	5.0 P/C	DSIG/DT	VS -T	PI- ,PI-
* MEANLEY	PR	6	740	72	SPARK CHAMBERS	7.0 P/C	DSIG/DT	VS COST	PI- ,PI-

DATA AT 3.5200 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2940	5920.0010	260.0010	.0010	.4560	1380.0010	110.0010	.0010
.3240	4660.0010	220.0010	.0010	.4910	1020.0010	100.0010	.0010
.3550	3200.0010	180.0010	.0010	.5270	734.0010	78.0010	.0010
.3880	2600.0010	160.0010	.0010	.5630	765.0010	76.0010	.0010
.4210	2000.0010	140.0010	.0010				

REFERENCE				TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
FELLINGER	PR	2	1777	70	SPARK CHAMBERS	5.0 P/C	DSIG/DT	VS -T	PI- ,PI-

DATA AT 3.5500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
* 5.7391	19.9266	8.1426	.0010	* 5.8060	13.7010	2.9010	.0010
* 5.7480	10.3010	5.1010	.0010	* 5.8095	14.1417	2.5720	.0010
* 5.7508	20.3551	6.2143	.0010	* 5.8180	12.3010	2.4010	.0010
* 5.7590	22.5010	6.5010	.0010	* 5.8212	15.2130	2.5720	.0010
* 5.7626	21.2121	5.5716	.0010	* 5.8300	14.4310	2.3010	.0010
* 5.7710	16.5010	5.2010	.0010	* 5.8329	18.2125	2.5720	.0010
* 5.7743	10.7137	3.4291	.0010	* 5.8410	20.0010	2.6010	.0010
* 5.7830	23.5010	5.3010	.0010	* 5.8447	16.9270	2.1435	.0010
* 5.7860	17.7840	3.8576	.0010	* 5.8530	21.0010	2.4010	.0010
* 5.7950	16.6010	3.6010	.0010	* 5.8564	20.5693	2.3578	.0010
5.7978	18.4268	3.4291	.0010				

REFERENCES				TECHNIQUES		SYSTEMATIC ERROR		MEASURED VARIABLES	
BAKER	NP	89	249	69	SPARK CHAMBERS	NOT GIVEN	DSIG/DT	VS COST	PI- ,PI-
* BAKER	PL	23	605	66	SPARK CHAMBERS	10.0 P/C	DSIG/DT	VS -T	PI- ,PI-

DATA AT 3.6300 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0752	23200.0010	1300.0010	.0010	1.0520	134.0010	31.0010	.0010
.1052	17100.0010	1300.0010	.0010	1.3530	119.0010	29.0010	.0010
.1503	11700.0010	600.0010	.0010	1.6530	81.0010	25.0010	.0010
.2100	7900.0010	600.0010	.0010	2.1000	23.0010	8.0010	.0010
.2710	4600.0010	400.0010	.0010	2.7100	7.3010	5.2010	.0010
.3310	3300.0010	400.0010	.0010	3.3100	3.6010	3.6010	.0010
.3910	1710.0010	270.0010	.0010	3.9100	6.9010	4.8010	.0010
.4510	940.0010	190.0010	.0010	4.5100	3.6010	3.6010	.0010
.5410	500.0010	100.0010	.0010	5.1100	3.6010	3.6010	.0010
.6760	250.0010	60.0010	.0010	5.7100	10.4010	6.1010	.0010
.8270	94.0010	38.0010	.0010				

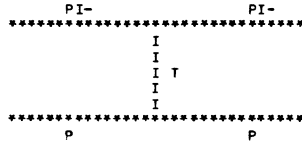
REFERENCE				TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
LEE	PR	138	707	65	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS -T	PI- ,PI-

REACTION PI- P = P PI-

DATA AT 3.770J GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2400	7600.0010	300.0010	.0010	.4040	2470.0010	150.0010	.0010
.2700	6450.0010	270.0010	.0010	.4410	2010.0010	130.0010	.0010
.3020	5520.0010	240.0010	.0010	.4790	1170.0010	100.0010	.0010
.3350	4130.0010	200.0010	.0010	.5170	757.0010	77.0010	.0010
.3690	3250.0010	170.0010	.0010	.5570	536.0010	65.0010	.0010

REFERENCE			TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
FELLINGER	PR	2 1777 70	SPARK CHAMBERS	5.0 P/C	DSIG/DT	VS -T	PI- ,PI-



DATA AT 3.9500 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+ -			+ -
6.5321	18.5849	3.8243	6.5975	17.1202	3.8623
6.5734	19.7071	3.7292			.0010

MEANLEY	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
PR	6 740 72	SPARK CHAMBERS	7.0 P/C	DSIG/DT VS COST PI- ,PI-

DATA AT 4.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+ -			+ -
.0840	23470.0010	590.0010	5.7392	4.8410	.7710
.1170	18720.0010	560.0010	5.8632	5.1210	.8210
.1510	14520.0010	480.0010	5.9812	4.6410	.7810
.1840	11270.0010	430.0010	6.0922	7.2910	1.0210
.2180	8540.0010	380.0010	6.1962	3.2310	.6710
.2510	6730.0010	330.0010	6.2000	2.0310	1.4010
.2850	5230.0010	290.0010	6.2922	3.5410	.7410
.3180	4180.0010	260.0010	6.3792	2.5810	1.0910
.3680	3130.0010	160.0010	6.3912	8.0010	1.7010
.4350	1740.0010	120.0010	6.4182	11.1010	1.7010
.5030	1200.0010	100.0010	6.4452	9.7010	1.4010
.5700	710.0010	80.0010	6.4562	4.4510	.9310
.6370	470.0010	60.0010	6.4722	10.9010	1.3310
.7370	277.0010	34.0010	6.4992	13.9010	1.3010
.8710	193.0010	27.0010	6.5100	11.0010	4.0010
1.0000	135.0010	27.0010	6.5242	6.3510	1.2010
1.1400	124.0010	24.0010	6.5252	12.9010	1.1010
1.2700	158.0010	25.0010	6.5522	13.3010	1.0010
1.4100	110.0010	24.0010	6.5792	15.8010	1.0010
1.5400	71.0010	16.0010	6.5812	11.7910	1.4010
1.6700	57.0010	12.0010	6.6052	17.7010	1.0010
1.8100	40.0010	9.0010	6.6282	13.3010	1.6010
1.9400	27.0010	9.0010	6.6332	19.6010	1.0010
2.1800	9.8010	4.0010	6.6480	22.9010	5.1010
2.5100	5.9010	4.0010	6.6592	21.9010	1.2010
* 5.0512	2.1510	.7110	6.6632	17.0010	2.5010
* 5.2012	2.1910	.6510	6.6860	31.3010	8.8010
* 5.3412	1.5010	.4910	6.6862	26.5010	1.5010
* 5.4812	3.0610	.6710	6.6862	15.8010	2.7010
* 5.6112	3.2010	.6410	6.6950	25.2010	8.8010

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
COFFIN PR 159 1169 67	SPARK CHAMBERS	5.0 P/C	DSIG/DT VS -T PI- ,PI-
* CHASE PR 2 2588 70	SPARK CHAMBERS	NOT GIVEN	VS -T PI- ,P
+ BRABSON PL 428 283 72	COUNTERS	12.0 P/C	DSIG/DT VS -T PI- ,P
\$ OREAR PR 152 1162 66	COUNTERS	10.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 4.0200 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+ -			+ -
.2730	6540.0010	260.0010	.4170	2250.0010	130.0010
.3060	4880.0010	220.0010	.4570	1820.0010	120.0010
.3420	4200.0010	190.0010	.4990	1020.0010	90.0010
.3790	2890.0010	160.0010	.5410	736.0010	74.0010

FELLINGER	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
PR	2 1777 70	SPARK CHAMBERS	5.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 4.1300 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+ -			+ -
.1041	20622.4415	1050.1341	.6594	380.2216	108.6355
.1735	10718.6005	615.5962	.7635	271.5871	90.5297
.2429	5974.8960	434.5388	.9023	144.8469	72.4240
.3123	3548.7265	344.0101	1.1799	23.5385	14.4856
.3817	1448.4604	217.2699	1.5963	30.7808	21.7279
.4511	1086.3455	181.0584	3.0886	9.0539	5.4327
.5206	814.7594	162.9527	4.7543	.0010	.0010
.5900	398.3273	108.6355	5.9168	.0010	.0010

REACTION PI- P = P PI-

PERL	REFERENCE	132	1252	63	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
	PR				SPARK CHAMBERS	8.0 P/C	DSIG/DOM	VS	COST PI- ,PI-
DATA AT 4.2000 GEV/C FOLLOW									
	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	7.1223	7.0610	1.5510	.0010		7.6113	2.8010	.9310	.0010
	7.3613	4.0710	.7710	.0010		7.7813	.0010	4.3310	.0010
BRODY	REFERENCE	16	828	66	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
	PRL				SPARK CHAMBERS	NOT GIVEN	DSIG/DT	VS	-T PI- ,P
DATA AT 4.5000 GEV/C FOLLOW									
	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	7.5423	18.3857	4.1194	.0010		7.6179	12.2904	3.0486	.0010
	7.5900	14.6791	2.9827	.0010					
MEANLEY	REFERENCE	6	740	72	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
	PR				SPARK CHAMBERS	7.0 P/C	DSIG/DOM	VS	COST PI- ,PI-
DATA AT 4.9500 GEV/C FOLLOW									
	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	.1270	19257.4762	964.8592	.0010		.8042	100.9400	44.5329	.0010
	.2117	9767.3344	445.3201	.0010		.8889	50.4705	37.1109	.0010
	.2963	4542.2563	326.5684	.0010		1.0159	.0010	.0010	.0010
	.3810	2636.7599	267.1925	.0010		1.4603	.0010	.0010	.0010
	.4656	1781.2776	207.8166	.0010		2.2222	.0010	.0010	.0010
	.5503	920.3272	148.4407	.0010		3.8730	.0010	.0010	.0010
	.6349	385.9443	103.9088	.0010		5.8413	.0010	.0010	.0010
	.7196	267.1925	89.0648	.0010		7.3651	.0010	.0010	.0010
PERL	REFERENCE	132	1252	63	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
	PR				SPARK CHAMBERS	8.0 P/C	DSIG/DOM	VS	COST PI- ,PI-
DATA AT 5.0000 GEV/C FOLLOW									
	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	.1070	18450.0010	608.0010	.0010	*	2.7000	.3455	.0387	.0010
	.1500	14403.0010	5.8010	.0010	*	2.9000	.1358	.0162	.0010
	* .1700	15558.0010	1059.3010	.0010	*	3.1000	.2343	.0203	.0010
	* .1930	10316.0010	443.0010	.0010	*	3.3000	.2931	.0220	.0010
	* .2200	11913.0010	754.2910	.0010	*	3.5000	.3300	.0210	.0010
	* .2350	7402.0010	377.0010	.0010	*	3.7000	.3441	.0197	.0010
	* .2780	5587.0010	323.0010	.0010	*	3.9000	.2431	.0145	.0010
	* .2800	8742.0010	581.8410	.0010	*	4.1000	.2035	.0158	.0010
	* .3200	5238.2010	366.3910	.0010	*	4.3000	.1944	.0138	.0010
	* .3210	3934.0010	270.0010	.0010	*	4.5000	.1469	.0121	.0010
	* .3690	3121.0010	242.0010	.0010	*	4.7000	.1286	.0124	.0010
	* .3800	3790.5010	279.7710	.0010	*	4.7060	1.9990 U	.0010	.0010
	* .4060	2205.0010	204.0010	.0010	*	4.9000	.1716	.0158	.0010
	* .4300	2177.2010	173.1210	.0010	*	5.1000	.1782	.0177	.0010
	* .4700	1488.0010	140.3810	.0010	*	5.3000	.2240	.0216	.0010
	* .4710	1351.0010	113.0010	.0010	*	5.5000	.2410	.0242	.0010
	* .5200	1409.1010	141.7410	.0010	*	5.7000	.1731	.0234	.0010
	* .5300	909.0010	112.2410	.0010	*	5.9000	.1751	.0407	.0010
	* .5560	798.0010	87.0010	.0010	*	6.1000	.2583	.0697	.0010
	* .6300	570.7210	84.5510	.0010	*	6.3000	.3979	.0779	.0010
	* .6490	365.0010	59.0010	.0010	*	6.5000	.2642	.0588	.0010
	* .6800	543.2610	86.4480	.0010	+	6.5768	.5410	.2010	.0010
	* .7270	318.0010	54.0010	.0010	+	6.7000	.6941	.1031	.0010
	* .7300	225.3610	50.9520	.0010	+	6.7768	.7410	.2210	.0010
	* .7700	182.7010	46.0190	.0010	+	6.9000	.8215	.1732	.0010
	* .8130	199.0010	43.0010	.0010	+	6.9568	1.4810	.2910	.0010
	* .8200	199.2210	46.6710	.0010	+	7.1000	1.2139	.2614	.0010
	* .8800	125.5410	40.5850	.0010	+	7.1468	.3810	.2210	.0010
	* .9300	184.9410	47.8160	.0010	+	7.3000	1.4616	.3062	.0010
	* .9800	131.2510	40.3680	.0010	+	7.3268	1.3810	.2710	.0010
	* 1.0500	109.2110	25.8270	.0010	+	7.4870	4.0010	2.0010	.0010
	* 1.0700	122.0010	15.0010	.0010	+	7.4948	1.8110	.3210	.0010
	* 1.1500	122.7310	28.8240	.0010	+	7.6568	1.6810	.3210	.0010
	* 1.2500	118.8010	29.4130	.0010	+	7.8088	2.5610	.4110	.0010
	* 1.3500	89.4050	23.7770	.0010	+	7.9498	1.9810	.3710	.0010
	* 1.4500	69.1230	12.1620	.0010	+	8.0788	2.6210	.4710	.0010

TURN TO NEXT PAGE

REACTION PI- P = P PI-

CONTINUATION OF DATA AT 5.000 GEV/C

	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	1.4980	63.0010	11.0010	.0010	+	8.1938	1.5910	.3810	.0010
*	1.5500	51.6640	7.1561	.0010	+	8.2948	1.2010	.3610	.0010
*	1.6500	38.8000	4.3254	.0010	+	8.3220	23.0010	8.0010	.0010
*	1.7500	34.4880	3.2586	.0010	+	8.3808	3.6310	.5810	.0010
*	1.8500	22.5410	2.3333	.0010	+	8.4508	4.7010	.6510	.0010
*	1.9250	18.0010	6.0010	.0010	\$	8.4946	4.8022	2.1446	.0010
*	1.9500	11.9730	1.5817	.0010	+	8.5038	6.5210	1.1010	.0010
*	2.1000	5.8095	.7904	.0010	\$	8.5288	6.2557	2.7026	.0010
*	2.3000	2.5567	.5677	.0010	+	8.5388	10.9010	1.6010	.0010
*	2.3530	12.0010	5.0010	.0010	\$	8.5489	11.8938	3.4954	.0010
*	2.5000	.5842	.1897	.0010					

U=UPPER LIMIT

	REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
COFFIN	PR 159 1169 67	SPARK CHAMBERS	5.0 P/C	DSIG/DT VS -T PI- ,PI-
* CHABAUD	PL 388 441 72	SPARK CHAMBERS	20.0 P/C	DSIG/DT VS -T PI- ,PI-
+ CHASE	PR 2 2588 70	SPARK CHAMBERS	NOT GIVEN	DSIG/DT VS -T PI- ,P
\$ MEANLEY	PR 6 740 72	SPARK CHAMBERS	7.0 P/C	DSIG/DT VS COST PI- ,PI-

DATA AT 5.0300 GEV/C FOLLOW

	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	.2740	5730.0010	180.0010	.0010		.4610	1380.0010	80.0010	.0010
	.3160	4670.0010	150.0010	.0010		.5140	804.0010	55.0010	.0010
	.3630	3030.0010	120.0010	.0010		.5700	635.0010	48.0010	.0010
	.4100	2040.0010	90.0010	.0010		.6270	354.0010	35.0010	.0010

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FELLINGER	PR 2 1777 70	SPARK CHAMBERS	5.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 5.1200 GEV/C FOLLOW

	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	8.7165	7.2412	2.3476	.0010		8.7722	12.9504	3.2634	.0010
	8.7516	7.1554	2.5909	.0010					

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
MEANLEY	PR 6 740 72	SPARK CHAMBERS	7.0 P/C	DSIG/DT VS COST PI- ,PI-

DATA AT 5.2500 GEV/C FOLLOW

	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	8.9569	8.2165	2.6049	.0010		9.0142	4.6657	2.2846	.0010
	8.9930	9.6925	3.0366	.0010					

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
MEANLEY	PR 6 740 72	SPARK CHAMBERS	7.0 P/C	DSIG/DT VS COST PI- ,PI-

DATA AT 5.5300 GEV/C FOLLOW

	-T	DSIG/DT	ERROR			-T	DSIG/DT	ERROR	
			+	-				+	-
	.2810	5280.0010	160.0010	.0010		.4920	1160.0010	70.0010	.0010
	.3280	4310.0010	140.0010	.0010		.5530	692.0010	49.0010	.0010
	.3790	2620.0010	110.0010	.0010		.6140	385.0010	36.0010	.0010
	.4340	1940.0010	90.0010	.0010					

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FELLINGER	PR 2 1777 70	SPARK CHAMBERS	5.0 P/C	DSIG/DT VS -T PI- ,PI-

REACTION PI- P = P PI-

DATA AT 5.6000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
9.6046	6.2860	2.3384	.0010	9.6661	6.9872	2.5072	.0010
9.6433	9.3636	2.8708	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
MEANLEY PR 6 740 72	SPARK CHAMBERS	7.0 P/C	DSIG/DOH VS COST PI- ,PI-

DATA AT 5.8000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.5720	492.0010	74.0010	.0010	1.5240	27.0010	2.2010	.0010
.6440	271.0010	30.0010	.0010	1.6240	22.5010	2.0010	.0010
.7200	194.0010	13.0010	.0010	1.7250	17.4010	1.7010	.0010
.7990	150.0010	15.0010	.0010	1.8270	12.4010	1.3010	.0010
.8800	115.0010	9.0010	.0010	1.9310	10.4010	1.2010	.0010
.9650	82.2010	8.2010	.0010	2.0350	6.9510	.5510	.0010
1.0530	76.4010	6.1010	.0010	2.1400	4.7710	.4710	.0010
1.1430	62.9010	5.0010	.0010	2.2460	3.8610	.4210	.0010
1.2350	58.2010	5.2010	.0010	2.3520	2.4210	.3610	.0010
1.3290	44.4010	3.1010	.0010	2.4590	1.0810	.2310	.0010
1.4260	38.4010	2.7010	.0010	2.6190	5.2010	.1410	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OWEN PR 181 1794 69	COUNTERS	5.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 5.9000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
2.3600	1.8810	.5610	.0010	4.2570	.1660	.0270	.0010
2.4420	1.5610	.2910	.0010	4.4550	.1860	.0280	.0010
2.5790	.4150	.1010	.0010	4.6480	.1360	.0210	.0010
2.7440	.1820	.0480	.0010	4.8370	.1360	.0220	.0010
2.8810	.1540	.0510	.0010	5.0420	.1160	.0210	.0010
3.0180	.1300	.0460	.0010	5.2620	.1050	.0220	.0010
3.1820	.1470	.0360	.0010	5.4750	.0701	.0210	.0010
3.3440	.2790	.0390	.0010	5.4750	.0701	.0210	.0010
3.5050	.2880	.0440	.0010	5.6790	.0902	.0250	.0010
3.6650	.2660	.0380	.0010	5.8750	.0805	.0272	.0010
3.8490	.3060	.0340	.0010	6.0620	.0656	.0281	.0010
4.0550	.2120	.0300	.0010	6.2590	.0712	.0396	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OWEN PR 181 1794 69	COUNTERS	5.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 5.9100 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
9.3008	.2190	.0400	.0010	10.0748	3.1010	.4010	.0010
9.4508	.3010	.0430	.0010	10.1028	4.1710	.3710	.0010
9.5678	.3970	.0600	.0010	10.1078	4.0810	.4410	.0010
9.6548	.5620	.0730	.0010	10.1388	4.5610	.5010	.0010
9.7358	.9110	.0820	.0010	10.1648	5.5610	.5510	.0010
9.8118	1.1810	.0910	.0010	10.1848	4.2810	.5910	.0010
9.8818	1.7310	.1210	.0010	10.2198	4.4010	.5710	.0010
9.9458	1.8210	.1210	.0010	10.2338	5.4310	.5910	.0010
10.0038	2.5610	.1510	.0010	10.2448	4.4910	.5810	.0010
10.0378	2.4510	.4610	.0010	10.2528	5.0610	.6010	.0010
10.0558	3.5410	.2110	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OWEN PR 181 1794 69	COUNTERS	5.0 P/C	DSIG/DT VS -T PI- ,P

DATA AT 6.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1300	12980.0010	390.0010	.0010	8.4827	.3110	.1010	.0010

TURN TO NEXT PAGE

REACTION PI- P = P PI-

CONTINUATION OF DATA AT 6.000 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1820	9520.0010	330.0010	.0010	* 8.7327	.4810	.1410	.0010
.2350	6720.0010	280.0010	.0010	* 8.9527	.4910	.1410	.0010
.2860	4250.0010	220.0010	.0010	* 9.1727	.7210	.1810	.0010
.3390	2750.0010	180.0010	.0010	* 9.3827	1.4110	.2610	.0010
.3910	1670.0010	140.0010	.0010	* 9.5757	1.3510	.2810	.0010
.4440	1210.0010	120.0010	.0010	* 9.7547	1.7710	.3310	.0010
.4950	1000.0010	110.0010	.0010	* 9.9137	1.0810	.2810	.0010
.5740	621.0010	63.0010	.0010	* 10.0547	.5910	.2010	.0010
.6780	277.0010	41.0010	.0010	* 10.1200	3.5010	2.4010	.0010
.7820	134.0010	30.0010	.0010	* 10.1747	1.8010	.3210	.0010
.9390	70.0010	15.0010	.0010	* 10.2717	2.7910	.4110	.0010
1.1700	53.0010	13.0010	.0010	+ 10.3454	3.2560	1.1222	.0010
1.4300	18.0010	7.0010	.0010	* 10.3457	5.2310	.8810	.0010
1.8900	17.0010	7.0010	.0010	+ 10.3871	6.2338	1.4115	.0010
1.9500	7.0010	4.7010	.0010	* 10.3957	7.0010	1.1210	.0010
* 8.2427	.1410	.0810	.0010	+ 10.4079	4.5581	1.2427	.0010

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
COFFIN PR 159 1169 67	SPARK CHAMBERS	5.0 P/C	VS -T PI- ,PI-
* CHASE PR 2 2588 70	SPARK CHAMBERS	NOT GIVEN	VS -T PI- ,P
+ MEANLEY PR 6 740 72	SPARK CHAMBERS	7.0 P/C	VS COST PI- ,PI-

DATA AT 6.1000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
10.7073	.5010	.2710	.0010	11.4253	2.3910	.4510	.0010
10.9253	1.9110	.3310	.0010	11.6753	1.2410	.3410	.0010
11.1753	3.6610	.5510	.0010	11.8773	.0010	.1210	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BRODY PRL 16 828 66	SPARK CHAMBERS	NOT GIVEN	VS -T PI- ,P

DATA AT 6.2000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
10.8949	1.4810	.3610	.0010	11.6129	.1130	.0690	.0010
11.1129	.5810	.1610	.0010	11.8629	.1260	.0960	.0010
11.3629	.6710	.0410	.0010	12.1009	.0010	.1060	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BRODY PRL 16 828 66	SPARK CHAMBERS	NOT GIVEN	VS -T PI- ,P

DATA AT 7.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0370	32100.0010	1900.0010	.0010	.4240	1471.0010	92.0010	.0010
.0530	30200.0010	1700.0010	.0010	.5110	762.0010	60.0010	.0010
.0670	24400.0010	1500.0010	.0010	.6050	401.0010	36.0010	.0010
.0820	23600.0010	1400.0010	.0010	.7050	241.0010	27.0010	.0010
.1090	15600.0010	1100.0010	.0010	.8120	135.0010	19.0010	.0010
.2650	4640.0010	220.0010	.0010	.9240	82.0010	15.0010	.0010
.3400	2610.0010	140.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FOLEY PRL 11 425 63	COUNTERS	6.0 P/C	VS -T PI- ,PI-

DATA AT 7.8000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
13.9107	.2310	.1310	.0010	14.6147	.5310	.1210	.0010
13.9107	.2010	.1510	.0010	14.8647	.0110	.0310	.0010
14.1147	.1410	.0610	.0010	14.8647	.3810	.1210	.0010
14.1147	.4710	.1210	.0010	15.1147	.0510	.0510	.0010
14.3647	.0310	.0410	.0010	15.1147	.0710	.0710	.0010
14.3647	1.0310	.1710	.0010	15.2977	.9710	1.0210	.0010
14.6147	.0310	.0210	.0010	15.3037	.0010	.1610	.0010

REACTION $\pi^- p = p \pi^-$

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES					
BRODY	PRL	16	828	66	SPARK CHAMBERS	NOT GIVEN	DSIG/DT	VS	-T	PI-	,PI
DATA AT 7.8800 GEV/C FOLLOW											
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR					
		+	-			+	-				
5.1350	.0538	.0142	.0010	7.6430	.0105	.0043	.0010				
5.4550	.0372	.0111	.0010	8.2850	.0110	.0045	.0010				
5.7680	.0379	.0113	.0010	8.9120	.0069	.0041	.0010				
6.0730	.0208	.0085	.0010	9.5830	.0080	.0037	.0010				
6.5100	.0196	.0056	.0010	10.2070	.0054	.0045	.0010				
7.0660	.0182	.0059	.0010								

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES					
OWEN	PR	181	1794	69	COUNTERS	5.0 P/C	DSIG/DT	VS	-T	PI-	,PI-
DATA AT 7.8900 GEV/C FOLLOW											
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR					
		+	-			+	-				
.0023	75310.0010	4090.0010	.0010	.0110	36040.0010	1600.0010	.0010				
.0028	59210.0010	3530.0010	.0010	.0135	33910.0010	1520.0010	.0010				
.0033	52810.0010	3300.0010	.0010	.0162	33300.0010	1460.0010	.0010				
.0038	48120.0010	3790.0010	.0010	.0191	32320.0010	1390.0010	.0010				
.0039	45420.0010	3370.0010	.0010	.0222	31040.0010	1320.0010	.0010				
.0045	41990.0010	3520.0010	.0010	.0257	29530.0010	1230.0010	.0010				
.0051	44670.0010	4260.0010	.0010	.0293	26580.0010	1140.0010	.0010				
.0052	40630.0010	2300.0010	.0010	.0332	27260.0010	1150.0010	.0010				
.0069	38640.0010	1860.0010	.0010	.0374	28380.0010	1130.0010	.0010				
.0088	36310.0010	1730.0010	.0010	.0418	24490.0010	1070.0010	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES					
FOLEY	PR	181	1775	69	COUNTERS	NOT GIVEN	DSIG/DT	VS	-T	PI-	,PI-
DATA AT 8.0000 GEV/C FOLLOW											
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR					
		+	-			+	-				
1.2000	30.4010	3.1010	.0010	* 13.8479	1.4910	.1910	.0010				
1.5000	15.1010	1.8010	.0010	* 13.9009	1.8010	.1810	.0010				
1.7400	6.5510	.5810	.0010	* 13.9339	2.3210	.2410	.0010				
2.0000	2.7110	.6510	.0010	* 13.9789	2.4610	.3710	.0010				
2.2500	.5710	.0810	.0010	* 14.0189	2.7510	.2010	.0010				
2.5000	.2010	.0610	.0010	* 14.0530	2.8810	.7810	.0010				
2.7200	.0480	.0200	.0010	* 14.0839	3.3710	.4310	.0010				
3.0000	.0650	.0200	.0010	* 14.1000	3.4410	.3910	.0010				
3.5000	.0850	.0320	.0010	* 14.1099	3.2510	.8810	.0010				
4.0000	.0570	.0390	.0010	* 14.1269	3.5510	.3210	.0010				
5.0000	.0840	.0420	.0010	* 14.1330	3.8310	.4810	.0010				
6.0000	.0590 U	.0010	.0010	14.1330	2.1310	.5710	.0010				
* 13.7189	.9710	.1010	.0010	14.1540	4.9910	1.3410	.0010				
* 13.7909	1.5110	.1210	.0010	14.1600	3.3510	.9010	.0010				

U=UPPER LIMIT

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES					
OREAR	PR	152	1162	66	COUNTERS	10.0 P/C	DSIG/DT	VS	-T	PI-	,PI-
* ANDERSON	PRL	20	1529	68	COUNTERS	10.0 P/C	DSIG/DT	VS	-T	PI-	,PI
DATA AT 8.5000 GEV/C FOLLOW											
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR					
		+	-			+	-				
.0500	24440.0010	1680.0010	.0010	.3800	1824.0010	78.0010	.0010				
.0700	22630.0010	1690.0010	.0010	.4200	1397.0010	67.0010	.0010				
.0900	17900.0010	1490.0010	.0010	.4600	1160.0010	62.0010	.0010				
.1100	14350.0010	1340.0010	.0010	.5000	863.0010	53.0010	.0010				
.1300	12910.0010	320.0010	.0010	.5400	605.0010	45.0010	.0010				
.1500	10940.0010	290.0010	.0010	.5800	445.0010	38.0010	.0010				
.1700	9260.0010	270.0010	.0010	.6100	341.0010	22.0010	.0010				
.1900	8010.0010	250.0010	.0010	.7500	178.0010	16.0010	.0010				
.2200	6350.0010	160.0010	.0010	.8500	96.0010	12.0010	.0010				
.2600	4720.0010	120.0010	.0010	.9500	90.0010	12.0010	.0010				
.3000	3600.0010	116.0010	.0010	1.0500	43.7010	8.6010	.0010				
.3400	2615.0010	93.0010	.0010								

REACTION $\pi^- p = p \pi^-$

HARTING	REFERENCE			TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
	NC	38	60 65			SPARK CHAMBERS	7.0 P/C	DSIG/DT	VS -T
DATA AT 8.9000 GEV/C FOLLOW									
	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
			+	-			+	-	
	.0390	29520.0010	910.0010	.0010	.3350	2500.0010	130.0010	.0010	
	.0580	24220.0010	800.0010	.0010	.4170	1462.0010	85.0010	.0010	
	.0830	18770.0010	670.0010	.0010	.5030	738.0010	53.0010	.0010	
	.1100	15630.0010	540.0010	.0010	.5960	380.0010	33.0010	.0010	
	.1390	12520.0010	460.0010	.0010	.6960	227.0010	25.0010	.0010	
	.1740	8700.0010	390.0010	.0010	.8030	119.0010	17.0010	.0010	
	.2610	4550.0010	200.0010	.0010	.9150	92.0010	15.0010	.0010	

FOLEY	REFERENCE			TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
	PRL	11	425 63			COUNTERS	6.0 P/C	DSIG/DT	VS -T
DATA AT 9.7100 GEV/C FOLLOW									
	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
			+	-			+	-	
	.7600	128.0010	35.0010	.0010	2.5840	.0719	.0279	.0010	
	.9030	69.2010	5.5010	.0010	2.8020	.0257	.0153	.0010	
	1.0570	36.1010	3.2010	.0010	3.0230	.0268	.0169	.0010	
	1.2210	20.8010	1.8010	.0010	3.2480	.0566	.0176	.0010	
	1.3940	13.7010	2.0010	.0010	3.5330	.0539	.0158	.0010	
	1.5750	6.0610	.7210	.0010	3.8790	.0465	.0155	.0010	
	1.7640	3.1310	.3110	.0010	4.2850	.0276	.0092	.0010	
	1.9600	1.7610	.1910	.0010	4.7510	.0170	.0080	.0010	
	2.1620	.7060	.0920	.0010	5.2150	.0259	.0087	.0010	
	2.3700	.2100	.0360	.0010	5.8990	.0182	.0073	.0010	

OWEN	REFERENCE			TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
	PR	181	1794 69			COUNTERS	5.0 P/C	DSIG/DT	VS -T
DATA AT 9.8400 GEV/C FOLLOW									
	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
			+	-			+	-	
	.0012	188880.0010	8450.0010	.0010	.0151	31500.0010	1280.0010	.0010	
	.0015	127840.0010	5800.0010	.0010	.0177	30530.0010	1260.0010	.0010	
	.0019	99840.0010	4710.0010	.0010	.0203	29670.0010	1200.0010	.0010	
	.0022	73230.0010	3800.0010	.0010	.0233	30880.0010	1200.0010	.0010	
	.0026	64100.0010	3580.0010	.0010	.0264	27930.0010	1110.0010	.0010	
	.0030	52210.0010	3490.0010	.0010	.0297	26420.0010	1080.0010	.0010	
	.0030	57690.0010	3550.0010	.0010	.0332	27700.0010	1080.0010	.0010	
	.0035	52730.0010	3570.0010	.0010	* 6.3170	.0091	.0030	.0010	
	.0040	50190.0010	4170.0010	.0010	* 7.2050	.0066	.0027	.0010	
	.0041	40770.0010	2100.0010	.0010	* 8.2360	.0032	.0020	.0010	
	.0054	37130.0010	1670.0010	.0010	* 9.3670	.0034	.0020	.0010	
	.0069	35660.0010	1530.0010	.0010	* 10.5080	.0046	.0021	.0010	
	.0087	33380.0010	1460.0010	.0010	* 11.6250	.0022	.0019	.0010	
	.0106	30670.0010	1360.0010	.0010	* 12.8570	.0020	.0016	.0010	
	.0127	30060.0010	1300.0010	.0010					

FOLEY * OWEN	REFERENCES			TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES			
	PR	181	1775 69			COUNTERS	NOT GIVEN	DSIG/DT	VS -T
DATA AT 9.8500 GEV/C FOLLOW									
	-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
			+	-			+	-	
	15.1931	.0010	.0057	.0010	17.2811	.5400	.0540	.0010	
	15.6051	.0311	.0088	.0010	17.3601	.6510	.0660	.0010	
	15.8901	.0375	.0123	.0010	17.4061	.8710	.1140	.0010	
	16.1551	.0340	.0191	.0010	17.4301	1.0410	.1110	.0010	
	16.4001	.0348	.0182	.0010	17.4541	1.2810	.1410	.0010	
	16.6241	.0486	.0152	.0010	17.4961	1.0910	.1410	.0010	
	16.8261	.0857	.0297	.0010	17.5321	1.6910	.1610	.0010	
	16.9801	.1350	.0300	.0010	17.5891	1.4010	.1410	.0010	
	17.0901	.1730	.0280	.0010	17.6091	1.6610	.1610	.0010	
	17.1911	.3430	.0380	.0010	17.6201	2.0310	.1610	.0010	

OWEN	REFERENCE			TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
	PR	181	1794 69			COUNTERS	5.0 P/C	DSIG/DT	VS -T

REACTION PI- P = P PI-

DATA AT 9.8990 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0023	70420.0010	3330.0010	.0010	.0138	31600.0010	1140.0010	.0010
.0029	56440.0010	2680.0010	.0010	.0173	30510.0010	1080.0010	.0010
.0036	46270.0010	2340.0010	.0010	.0211	28790.0010	1000.0010	.0010
.0044	42170.0010	2180.0010	.0010	.0253	26990.0010	940.0010	.0010
.0052	37100.0010	2110.0010	.0010	.0299	26570.0010	910.0010	.0010
.0059	36870.0010	2470.0010	.0010	.0348	27100.0010	890.0010	.0010
.0061	33540.0010	2120.0010	.0010	.0402	23650.0010	820.0010	.0010
.0070	33140.0010	2380.0010	.0010	.0459	23120.0010	790.0010	.0010
.0080	34050.0010	2630.0010	.0010	.0521	23640.0010	790.0010	.0010
.0081	34170.0010	1580.0010	.0010	.0586	21510.0010	750.0010	.0010
.0108	32680.0010	1250.0010	.0010	.0655	20270.0010	710.0010	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
FOLEY	PR	181	1775 69	COUNTERS	NOT GIVEN	DSIG/DT	VS -T PI- ,PI-

DATA AT 10.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0300	30680.0010	2810.0010	.0010	.2600	3870.0010	450.0010	.0010
.0500	28140.0010	2080.0010	.0010	.3000	3450.0010	430.0010	.0010
.0700	18520.0010	1450.0010	.0010	.3400	2410.0010	360.0010	.0010
.0900	16710.0010	1350.0010	.0010	.3900	1650.0010	240.0010	.0010
.1100	11620.0010	1120.0010	.0010	.4600	1220.0010	181.0010	.0010
.1300	10300.0010	1050.0010	.0010	.5500	534.0010	105.0010	.0010
.1500	9150.0010	1000.0010	.0010	.7000	162.0010	42.0010	.0010
.1700	7520.0010	890.0010	.0010	.9000	75.5010	28.0010	.0010
.1900	7530.0010	910.0010	.0010	1.1000	68.0010	29.0010	.0010
.2100	6530.0010	840.0010	.0010	1.4000	20.0010	11.0010	.0010
.2300	5050.0010	740.0010	.0010				
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BRANDT	PRL	10	413 63	BUBBLE CHAMBER	10.0 P/C	DSIG/DT	VS -T PI- ,PI-

DATA AT 10.8000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0360	29700.0010	2300.0010	.0010	.3410	2590.0010	140.0010	.0010
.0560	25660.0010	840.0010	.0010	.4280	1236.0010	75.0010	.0010
.0850	18660.0010	650.0010	.0010	.5170	636.0010	48.0010	.0010
.1210	13460.0010	520.0010	.0010	.6140	316.0010	30.0010	.0010
.1600	9970.0010	430.0010	.0010	.7180	189.0010	22.0010	.0010
.2030	7780.0010	370.0010	.0010	.8280	95.0010	16.0010	.0010
.2490	5000.0010	290.0010	.0010	.9460	53.0010	11.0010	.0010
.2660	4310.0010	200.0010	.0010				
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
FOLEY	PRL	11	425 63	COUNTERS	6.0 P/C	DSIG/DT	VS -T PI- ,PI-

DATA AT 11.8900 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0011	230900.0010	11200.0010	.0010	.0079	31690.0010	1250.0010	.0010
.0014	142180.0010	6460.0010	.0010	.0102	31080.0010	1160.0010	.0010
.0018	101500.0010	4450.0010	.0010	.0128	31190.0010	1090.0010	.0010
.0022	71130.0010	3270.0010	.0010	.0156	29700.0010	1040.0010	.0010
.0027	61440.0010	2830.0010	.0010	.0187	28350.0010	980.0010	.0010
.0032	49600.0010	2440.0010	.0010	.0221	27900.0010	940.0010	.0010
.0038	46360.0010	2470.0010	.0010	.0259	27790.0010	910.0010	.0010
.0043	41250.0010	2380.0010	.0010	.0298	25570.0010	850.0010	.0010
.0044	37890.0010	2420.0010	.0010	.0340	24810.0010	830.0010	.0010
.0051	38430.0010	2510.0010	.0010	.0385	24920.0010	800.0010	.0010
.0058	40710.0010	2890.0010	.0010	.0433	22220.0010	750.0010	.0010
.0060	37050.0010	1560.0010	.0010	.0484	22310.0010	730.0010	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
FOLEY	PR	181	1775 69	COUNTERS	NOT GIVEN	DSIG/DT	VS -T PI- ,PI-

REACTION PI- P = P PI-

DATA AT 12.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
1.2000	12.2010	1.0010	.0010	2.4000	.1210	.0410	.0010
1.5000	7.0210	.5610	.0010	3.5000	.0340 U	.0010	.0010
2.0000	.7810	.1510	.0010				

U=UPPER LIMIT

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OPEAR PR 152 1162 66	COUNTERS	10.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 12.4000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0900	15270.0010	1820.0010	.0010	.5000	683.0010	42.0010	.0010
.1100	12250.0010	1030.0010	.0010	.5400	540.0010	37.0010	.0010
.1300	11470.0010	270.0010	.0010	.5800	432.0010	33.0010	.0010
.1700	8930.0010	250.0010	.0010	.6500	288.0010	17.0010	.0010
.1900	7120.0010	190.0010	.0010	.7500	164.0010	13.0010	.0010
.2200	5600.0010	120.0010	.0010	.8500	71.3010	8.6010	.0010
.2500	4150.0010	110.0010	.0010	.9500	52.4010	7.3010	.0010
.3000	3021.0010	85.0010	.0010	1.1000	32.4010	4.1010	.0010
.3400	2334.0010	77.0010	.0010	1.3000	11.5010	2.5010	.0010
.3800	1595.0010	65.0010	.0010	1.5000	7.4010	2.1010	.0010
.4200	1258.0010	55.0010	.0010	2.0000	1.1010	.4010	.0010
.4600	866.0010	47.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
HARTING NC 38 60 65	SPARK CHAMBERS	7.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 13.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0510	25700.0010	1200.0010	.0010	.3590	1876.0010	96.0010	.0010
.0820	19720.0010	680.0010	.0010	.4480	1071.0010	64.0010	.0010
.1240	13330.0010	530.0010	.0010	.5410	548.0010	40.0010	.0010
.1750	8690.0010	400.0010	.0010	.6420	281.0010	25.0010	.0010
.2320	5340.0010	310.0010	.0010	.7520	147.0010	17.0010	.0010
.2800	3390.0010	150.0010	.0010	.8690	94.0010	13.0010	.0010
.2930	3220.0010	220.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FOLEY PRL 11 425 63	COUNTERS	6.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 13.5700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
1.2080	15.0010	1.9010	.0010	2.0180	.6550	.1180	.0010
1.4590	7.2410	1.0110	.0010	2.3220	.1100	.0520	.0010
1.7300	2.2310	.2410	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OWEN PR 181 1794 69	COUNTERS	5.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 13.7300 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
24.6834	.3030	.0730	.0010	24.8584	.8830	.1330	.0010
24.7484	.4600	.0920	.0010	24.8784	1.0110	.1510	.0010
24.7934	.5040	.1160	.0010	24.8904	1.1610	.1210	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
OWEN PR 181 1794 69	COUNTERS	5.0 P/C	DSIG/DT VS -T PI- ,P

REACTION PI- P = P PI-

DATA AT 14.1600 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0011	20490.0010	14000.0010	.0010	.0112	31250.0010	1540.0010	.0010
.0016	132550.0010	7920.0010	.0010	.0145	27410.0010	1360.0010	.0010
.0020	77800.0010	5100.0010	.0010	.0181	29460.0010	1340.0010	.0010
.0026	62250.0010	3930.0010	.0010	.0221	27810.0010	1270.0010	.0010
.0032	52530.0010	3430.0010	.0010	.0265	27030.0010	1220.0010	.0010
.0039	45660.0010	3050.0010	.0010	.0313	25030.0010	1150.0010	.0010
.0046	40150.0010	2930.0010	.0010	.0365	23590.0010	1070.0010	.0010
.0054	35830.0010	3020.0010	.0010	.0422	21820.0010	1000.0010	.0010
.0062	35670.0010	2900.0010	.0010	.0482	22570.0010	1020.0010	.0010
.0063	35450.0010	3070.0010	.0010	.0545	19490.0010	920.0010	.0010
.0072	34450.0010	3300.0010	.0010	.0613	19840.0010	930.0010	.0010
.0082	31360.0010	3700.0010	.0010	.0686	18460.0010	870.0010	.0010
.0085	30490.0010	1830.0010	.0010				

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FOLEY	PR	181 1775 69	COUNTERS	NOT GIVEN	DSIG/DT VS -T PI- ,PI-

DATA AT 14.8400 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.4420	1152.0010	98.0010	.0010	.7320	223.0010	45.0010	.0010
.5310	739.0010	76.0010	.0010	.8430	148.0010	35.0010	.0010
.6270	328.0010	54.0010	.0010				

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FOLEY	PRL	15 45 65	COUNTERS	NOT GIVEN	DSIG/DT VS -T PI- ,PI-

DATA AT 15.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0680	22600.0010	1100.0010	.0010	.3900	1460.0010	150.0010	.0010
.1090	15690.0010	580.0010	.0010	.4580	844.0010	55.0010	.0010
.1550	8810.0010	410.0010	.0010	.5660	429.0010	34.0010	.0010
.2330	4920.0010	290.0010	.0010	.6720	229.0010	23.0010	.0010
.2920	3050.0010	140.0010	.0010	.7870	104.0010	15.0010	.0010
.3090	2840.0010	220.0010	.0010	.9100	93.0010	14.0010	.0010
.3750	1673.0010	91.0010	.0010				

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FOLEY	PRL	11 425 63	COUNTERS	6.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 15.9900 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0010	272800.0010	17900.0010	.0010	.0109	28700.0010	1000.0010	.0010
.0014	135410.0010	7350.0010	.0010	.0144	27860.0010	830.0010	.0010
.0020	85240.0010	4000.0010	.0010	.0186	27070.0010	750.0010	.0010
.0026	61640.0010	2700.0010	.0010	.0231	26040.0010	700.0010	.0010
.0033	48960.0010	2100.0010	.0010	.0282	24190.0010	640.0010	.0010
.0041	42630.0010	1770.0010	.0010	.0338	23140.0010	600.0010	.0010
.0049	36960.0010	1590.0010	.0010	.0401	22240.0010	570.0010	.0010
.0058	33280.0010	1510.0010	.0010	.0467	20820.0010	550.0010	.0010
.0069	32300.0010	1530.0010	.0010	.0538	19960.0010	520.0010	.0010
.0079	32270.0010	1520.0010	.0010	.0614	18230.0010	490.0010	.0010
.0080	33090.0010	1560.0010	.0010	.0695	16850.0010	460.0010	.0010
.0092	31150.0010	1620.0010	.0010	.0784	15650.0010	430.0010	.0010
.0104	29230.0010	1930.0010	.0010	.0877	14870.0010	430.0010	.0010

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FOLEY	PR	181 1775 69	COUNTERS	NOT GIVEN	DSIG/DT VS -T PI- ,PI-

DATA AT 16.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0025	65810.0010	3220.0010	.0010	.0663	16890.0010	380.0010	.0010

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REACTION PI- P = P PI-

CONTINUATION OF DATA AT 16.000 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0035	46270.0010	1920.0010	.0010	.0780	15460.0010	360.0010	.0010
.0048	37550.0010	1440.0010	.0010	.0911	14150.0010	330.0010	.0010
.0061	33430.0010	1210.0010	.0010	.1053	12470.0010	310.0010	.0010
.0077	30210.0010	1080.0010	.0010	.1203	10690.0010	280.0010	.0010
.0095	30610.0010	1030.0010	.0010	.1364	9610.0010	260.0010	.0010
.0115	28800.0010	970.0010	.0010	.1530	8570.0010	240.0010	.0010
.0136	26340.0010	930.0010	.0010	.1712	6960.0010	210.0010	.0010
.0158	26650.0010	1030.0010	.0010	* 28.3959	.0540	.0120	.0010
.0159	27840.0010	970.0010	.0010	* 28.5699	.0760	.0120	.0010
.0184	26770.0010	1020.0010	.0010	* 28.7059	.1390	.0160	.0010
.0210	26580.0010	1130.0010	.0010	* 28.8039	.2570	.2310	.0010
.0215	26080.0010	690.0010	.0010	* 28.8759	.3410	.0340	.0010
.0282	24510.0010	560.0010	.0010	* 28.9399	.3770	.0470	.0010
.0362	22790.0010	500.0010	.0010	* 28.9949	.5480	.0550	.0010
.0452	21020.0010	460.0010	.0010	* 29.0309	.5580	.0720	.0010
.0552	18990.0010	420.0010	.0010				

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES				
FOLEY	PR	181	1775	69	COUNTERS	NOT GIVEN	DSIG/DT	VS	-T	PI- ,PI-
* ANDERSON	PRL	20	1529	68	COUNTERS	10.0 P/C	DSIG/DT	VS	-T	PI- ,P

DATA AT 16.2500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
29.4230	.3570	.1040	.0010	29.5950	.4160	.3280	.0010
29.5060	.4190	.1180	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES				
OWEN	PR	181	1794	69	COUNTERS	5.0 P/C	DSIG/DT	VS	-T	PI- ,P

DATA AT 17.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0860	16330.0010	580.0010	.0010	.3930	1210.0010	107.0010	.0010
.1390	10440.0010	400.0010	.0010	.4880	695.0010	54.0010	.0010
.2090	5680.0010	260.0010	.0010	.4950	652.0010	70.0010	.0010
.2970	2790.0010	160.0010	.0010	.5900	377.0010	36.0010	.0010
.3040	2810.0010	150.0010	.0010	.7010	174.0010	23.0010	.0010
.3910	1452.0010	91.0010	.0010	.8210	75.0010	15.0010	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES				
FOLEY	PRL	11	425	63	COUNTERS	6.0 P/C	DSIG/DT	VS	-T	PI- ,PI-

DATA AT 18.1900 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0021	88920.0010	5580.0010	.0010	.0278	24740.0010	630.0010	.0010
.0132	51520.0010	2530.0010	.0010	.0367	22830.0010	500.0010	.0010
.0045	38950.0010	1630.0010	.0010	.0469	21010.0010	440.0010	.0010
.0061	33120.0010	1270.0010	.0010	.0587	18800.0010	400.0010	.0010
.0080	30770.0010	1100.0010	.0010	.0716	16860.0010	370.0010	.0010
.0101	30440.0010	1010.0010	.0010	.0858	14740.0010	330.0010	.0010
.0123	28300.0010	920.0010	.0010	.1013	12910.0010	300.0010	.0010
.0148	28130.0010	890.0010	.0010	.1183	11040.0010	270.0010	.0010
.0177	28210.0010	890.0010	.0010	.1364	9890.0010	250.0010	.0010
.0205	26460.0010	870.0010	.0010	.1560	8080.0010	220.0010	.0010
.0206	25780.0010	940.0010	.0010	.1764	7260.0010	200.0010	.0010
.0239	25830.0010	910.0010	.0010	.1985	6010.0010	180.0010	.0010
.0274	25840.0010	990.0010	.0010	.2217	5030.0010	160.0010	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES				
FOLEY	PR	181	1775	69	COUNTERS	NOT GIVEN	DSIG/DT	VS	-T	PI- ,PI-

DATA AT 18.4000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1900	6750.0010	460.0010	.0010	.5800	371.0010	36.0010	.0010

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REACTION PI- P = P PI-

CONTINUATION OF DATA AT 18.400 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2200	5110.0010	290.0010	.0010	.6500	270.0010	18.0010	.0010
.2600	4050.0010	250.0010	.0010	.7500	141.0010	14.0010	.0010
.3000	3090.0010	130.0010	.0010	.8500	91.0010	11.0010	.0010
.3400	2280.0010	110.0010	.0010	.9500	60.4010	8.9010	.0010
.3800	1613.0010	92.0010	.0010	1.1000	17.3010	3.4010	.0010
.4200	1211.0010	64.0010	.0010	1.3000	18.7010	3.5010	.0010
.4600	829.0010	52.0010	.0010	1.5000	7.9010	2.2010	.0010
.5000	674.0010	47.0010	.0010	2.0000	.8110	.3610	.0010
.5400	536.0010	43.0010	.0010	3.6000	.1310	.1010	.0010
.5400	536.0010	43.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
HARTING NC 38 60 65	SPARK CHAMBERS	7.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 18.9000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1070	14070.0010	610.0010	.0010	.3680	1610.0010	160.0010	.0010
.1730	7790.0010	420.0010	.0010	.4880	770.0010	116.0010	.0010
.2600	3690.0010	260.0010	.0010	.6140	364.0010	79.0010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FOLEY PRL 11 425 63	COUNTERS	6.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 19.7500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2290	5370.0010	150.0010	.0010	.5670	503.0010	31.0010	.0010
.3010	3020.0010	100.0010	.0010	.6710	247.0010	22.0010	.0010
.3820	1686.0010	68.0010	.0010	.7840	148.0010	16.0010	.0010
.4720	940.0010	46.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FOLEY PRL 15 45 65	COUNTERS	NOT GIVEN	DSIG/DT VS -T PI- ,PI-

DATA AT 20.1500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0910	275100.0010	25800.0010	.0010	.0173	26320.0010	980.0010	.0010
.0916	120850.0010	8370.0010	.0010	.0229	25160.0010	810.0010	.0010
.0923	74510.0010	4280.0010	.0010	.0294	23540.0010	720.0010	.0010
.0931	51860.0010	2790.0010	.0010	.0367	21970.0010	670.0010	.0010
.0941	41790.0010	2160.0010	.0010	.0448	20490.0010	620.0010	.0010
.0952	36130.0010	1870.0010	.0010	.0536	18810.0010	580.0010	.0010
.0965	32420.0010	1700.0010	.0010	.0636	17100.0010	540.0010	.0010
.0978	30190.0010	1540.0010	.0010	.0739	15620.0010	500.0010	.0010
.0994	27830.0010	1500.0010	.0010	.0854	14350.0010	470.0010	.0010
.0109	28730.0010	1570.0010	.0010	.0977	12680.0010	440.0010	.0010
.0126	29050.0010	1470.0010	.0010	.1107	11220.0010	400.0010	.0010
.0127	27780.0010	1580.0010	.0010	.1242	9910.0010	380.0010	.0010
.0146	29090.0010	1700.0010	.0010	.1389	9390.0010	360.0010	.0010
.0165	26830.0010	1930.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FOLEY PR 181 1775 69	COUNTERS	NOT GIVEN	DSIG/DT VS -T PI- ,PI-

DATA AT 20.3800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0010	257900.0010	21300.0010	.0010	.0179	26020.0010	600.0010	.0010
.0016	113180.0010	6520.0010	.0010	.0234	24540.0010	500.0010	.0010
.0024	67180.0010	3050.0010	.0010	.0300	23320.0010	450.0010	.0010
.0032	56100.0010	1940.0010	.0010	.0374	21630.0010	410.0010	.0010
.0042	39630.0010	1400.0010	.0010	.0459	19700.0010	370.0010	.0010
.0054	35770.0010	1170.0010	.0010	.0551	18340.0010	340.0010	.0010
.0066	32670.0010	1020.0010	.0010	.0650	17190.0010	320.0010	.0010
.0080	30420.0010	950.0010	.0010	.0756	15300.0010	300.0010	.0010

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REACTION PI- P = P PI-

CONTINUATION OF DATA AT 20.380 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0096	29440.0010	900.0010	.0010	.0872	13530.0010	270.0010	.0010
.0112	27250.0010	850.0010	.0010	.0998	12170.0010	250.0010	.0010
.0130	27790.0010	880.0010	.0010	.1133	10930.0010	230.0010	.0010
.0130	26750.0010	850.0010	.0010	.1273	9750.0010	210.0010	.0010
.0149	28470.0010	910.0010	.0010	.1420	8470.0010	190.0010	.0010
.0170	27930.0010	1010.0010	.0010				

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
FOLEY	PR	181 1775 69	COUNTERS	NOT GIVEN	DSIG/DT	VS -T	PI- ,PI-

DATA AT 22.1300 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0012	199300.0010	17900.0010	.0010	.0210	25210.0010	840.0010	.0010
.0019	87770.0010	6170.0010	.0010	.0276	23640.0010	680.0010	.0010
.0028	56090.0010	3290.0010	.0010	.0355	21610.0010	590.0010	.0010
.0038	44290.0010	2220.0010	.0010	.0444	20270.0010	550.0010	.0010
.0050	35840.0010	1780.0010	.0010	.0541	18230.0010	500.0010	.0010
.0063	33380.0010	1550.0010	.0010	.0647	16090.0010	460.0010	.0010
.0078	30130.0010	1430.0010	.0010	.0765	15650.0010	450.0010	.0010
.0095	27900.0010	1330.0010	.0010	.0893	13680.0010	410.0010	.0010
.0113	27590.0010	1280.0010	.0010	.1029	11970.0010	370.0010	.0010
.0132	27500.0010	1290.0010	.0010	.1174	10730.0010	350.0010	.0010
.0153	27450.0010	1310.0010	.0010	.1331	9220.0010	310.0010	.0010
.0154	27860.0010	1230.0010	.0010	.1497	7950.0010	290.0010	.0010
.0175	28890.0010	1490.0010	.0010	.1677	6790.0010	260.0010	.0010
.0199	26940.0010	1590.0010	.0010				

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
FOLEY	PR	181 1775 69	COUNTERS	NOT GIVEN	DSIG/DT	VS -T	PI- ,PI-

DATA AT 23.1800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2300	5000.0010	160.0010	.0010	.5690	390.0010	29.0010	.0010
.3010	2910.0010	110.0010	.0010	.6740	244.0010	23.0010	.0010
.3830	1641.0010	72.0010	.0010	.7870	126.0010	17.0010	.0010
.4730	897.0010	48.0010	.0010				

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
FOLEY	PRL	15 45 65	COUNTERS	NOT GIVEN	DSIG/DT	VS -T	PI- ,PI-

DATA AT 24.2200 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0015	139000.0010	12100.0010	.0010	.0251	24680.0010	760.0010	.0010
.0023	69790.0010	4620.0010	.0010	.0331	21690.0010	600.0010	.0010
.0033	46110.0010	2640.0010	.0010	.0425	20620.0010	540.0010	.0010
.0045	38470.0010	1920.0010	.0010	.0531	18140.0010	490.0010	.0010
.0060	32440.0010	1560.0010	.0010	.0648	16540.0010	450.0010	.0010
.0076	30680.0010	1370.0010	.0010	.0775	14660.0010	410.0010	.0010
.0094	28780.0010	1290.0010	.0010	.0916	13000.0010	380.0010	.0010
.0113	28640.0010	1190.0010	.0010	.1069	11360.0010	340.0010	.0010
.0136	26110.0010	1140.0010	.0010	.1236	9730.0010	310.0010	.0010
.0158	27730.0010	1180.0010	.0010	.1412	8380.0010	290.0010	.0010
.0183	24950.0010	1070.0010	.0010	.1599	7530.0010	270.0010	.0010
.0184	25410.0010	1160.0010	.0010	.1797	6530.0010	250.0010	.0010
.0211	25740.0010	1320.0010	.0010	.2010	5180.0010	210.0010	.0010
.0239	23820.0010	1440.0010	.0010				

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
FOLEY	PR	181 1775 69	COUNTERS	NOT GIVEN	DSIG/DT	VS -T	PI- ,PI-

DATA AT 25.2000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0750	14428.0010	554.0010	.0010	.3200	1894.0010	142.0010	.0010

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CONTINUATION OF DATA AT 25.200 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0850	13385.0010	534.0010	.0010	.3400	1681.0010	134.0010	.0010
.0950	12896.0010	524.0010	.0010	.3600	1468.0010	125.0010	.0010
.1050	11215.0010	489.0010	.0010	.3800	1362.0010	120.0010	.0010
.1150	10470.0010	472.0010	.0010	.4000	1064.0010	106.0010	.0010
.1250	9065.0010	439.0010	.0010	.4200	936.0010	100.0010	.0010
.1350	8640.0010	429.0010	.0010	.4400	936.0010	100.0010	.0010
.1450	8235.0010	419.0010	.0010	.4600	638.0010	82.0010	.0010
.1550	7725.0010	405.0010	.0010	.4800	638.0010	82.0010	.0010
.1650	7129.0010	389.0010	.0010	.5000	755.0010	90.0010	.0010
.1750	6533.0010	373.0010	.0010	.5200	660.0010	84.0010	.0010
.1850	5469.0010	341.0010	.0010	.5400	340.0010	60.0010	.0010
.1950	5831.0010	352.0010	.0010	.5600	319.0010	58.0010	.0010
.2050	4873.0010	322.0010	.0010	.5850	312.0010	47.0010	.0010
.2200	4277.0010	213.0010	.0010	.6200	217.0010	58.0010	.0010
.2400	3628.0010	196.0010	.0010	.6600	264.0010	64.0010	.0010
.2600	3043.0010	180.0010	.0010	.7000	140.0010	47.0010	.0010
.2800	2479.0010	162.0010	.0010	.7400	62.0010	31.0010	.0010
.3000	2458.0010	162.0010	.0010	.7800	93.0010	36.0010	.0010

REFERENCE			TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
ANTIPOV	PL	TPB	73	COUNTERS	5.0 P/C	DSIG/DT	VS -T PI- ,PI-

DATA AT 25.3400 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2380	4500.0010	170.0010	.0010	.5900	351.0010	33.0010	.0010
.3120	2600.0010	120.0010	.0010	.6990	192.0010	24.0010	.0010
.3970	1318.0010	72.0010	.0010	.8170	91.0010	18.0010	.0010
.4910	742.0010	49.0010	.0010	.9440	73.0010	15.0010	.0010

REFERENCE			TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
FOLEY	PRL	15 45 65	COUNTERS	NOT GIVEN	DSIG/DT	VS -T PI- ,PI-	

DATA AT 26.2300 GEV/C FOLLOW

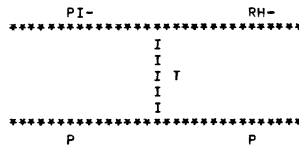
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0017	107840.0010	8860.0010	.0010	.0294	22360.0010	600.0010	.0010
.0027	57880.0010	3560.0010	.0010	.0389	20260.0010	480.0010	.0010
.0039	41500.0010	2110.0010	.0010	.0498	18170.0010	430.0010	.0010
.0053	32920.0010	1520.0010	.0010	.0622	16380.0010	390.0010	.0010
.0070	30410.0010	1280.0010	.0010	.0758	14710.0010	360.0010	.0010
.0089	28300.0010	1120.0010	.0010	.0907	12710.0010	320.0010	.0010
.0110	27960.0010	1030.0010	.0010	.1074	10960.0010	290.0010	.0010
.0133	25970.0010	950.0010	.0010	.1255	9760.0010	270.0010	.0010
.0159	25950.0010	920.0010	.0010	.1448	8110.0010	240.0010	.0010
.0186	24990.0010	930.0010	.0010	.1653	6730.0010	210.0010	.0010
.0214	24230.0010	890.0010	.0010	.1870	5610.0010	190.0010	.0010
.0216	24340.0010	910.0010	.0010	.2104	4950.0010	170.0010	.0010
.0247	23700.0010	990.0010	.0010	.2353	4010.0010	150.0010	.0010
.0280	22540.0010	1070.0010	.0010				

REFERENCE			TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
FOLEY	PR	181 1775 69	COUNTERS	NOT GIVEN	DSIG/DT	VS -T PI- ,PI-	

DATA AT 40.1000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0750	15700.0010	546.0010	.0010	.3200	1839.0010	132.0010	.0010
.0850	13385.0010	500.0010	.0010	.3400	1356.0010	113.0010	.0010
.0950	12059.0010	478.0010	.0010	.3600	1593.0010	123.0010	.0010
.1050	11998.0010	475.0010	.0010	.3800	1081.0010	101.0010	.0010
.1150	9850.0010	432.0010	.0010	.4000	1090.0010	102.0010	.0010
.1250	8665.0010	405.0010	.0010	.4200	825.0010	88.0010	.0010
.1350	7964.0010	389.0010	.0010	.4400	882.0010	91.0010	.0010
.1450	7395.0010	374.0010	.0010	.4600	635.0010	78.0010	.0010
.1550	7243.0010	371.0010	.0010	.4800	569.0010	73.0010	.0010
.1650	6807.0010	359.0010	.0010	.5000	436.0010	64.0010	.0010
.1750	6333.0010	347.0010	.0010	.5200	351.0010	58.0010	.0010
.1850	5802.0010	332.0010	.0010	.5400	427.0010	64.0010	.0010
.1950	5176.0010	313.0010	.0010	.5600	351.0010	58.0010	.0010
.2050	4494.0010	292.0010	.0010	.5850	329.0010	50.0010	.0010
.2200	4086.0010	197.0010	.0010	.6200	124.0010	41.0010	.0010
.2400	3641.0010	186.0010	.0010	.6600	221.0010	55.0010	.0010
.2600	3062.0010	170.0010	.0010	.7000	111.0010	39.0010	.0010
.2800	2427.0010	152.0010	.0010	.7400	111.0010	39.0010	.0010
.3000	2076.0010	140.0010	.0010	.7800	83.0010	34.0010	.0010

	REFERENCE			TECHNIQUE	SYSTEMATIC ERROR	REACTION $PI- P = P PI-$ MEASURED VARIABLES		
ANTIPOV	PL	TPB	73	COUNTERS	5.0 P/C	DSIG/DT	VS	-T $PI- ,PI-$



DATA AT 2.7700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0500	2700.0310	78.0010	.0010	1.9500	28.0010	5.0010	.0010
.1500	1900.0310	65.0010	.0010	2.0500	30.0010	6.0010	.0010
.2500	820.0310	41.0010	.0010	2.1500	42.0010	7.0010	.0010
.3500	290.0310	22.0010	.0010	2.2500	38.0010	7.0010	.0010
.4500	172.0310	16.0010	.0010	2.3500	39.0010	7.0010	.0010
.5500	135.0310	14.0010	.0010	2.4500	45.0010	8.0010	.0010
.6500	125.0310	14.0010	.0010	2.5500	42.0010	8.0010	.0010
.7500	112.0310	13.0010	.0010	2.6500	37.0010	7.0010	.0010
.8500	145.0310	15.0010	.0010	2.7500	24.0010	5.0010	.0010
.9500	200.0310	19.0010	.0010	2.8500	31.0010	6.0010	.0010
1.0500	152.0310	16.0010	.0010	2.9500	25.0010	5.0010	.0010
1.1500	154.0310	16.0010	.0010	3.0500	26.0010	5.0010	.0010
1.2500	96.0310	12.0010	.0010	3.1500	32.0010	6.0010	.0010
1.3500	87.0310	11.0010	.0010	3.2500	28.0010	6.0010	.0010
1.4500	45.0310	8.0010	.0010	3.3500	42.0010	7.0010	.0010
1.5500	47.0310	8.0010	.0010	3.4500	37.0010	6.0010	.0010
1.6500	37.0310	6.0010	.0010	3.5500	62.0010	9.0010	.0010
1.7500	32.0310	6.0010	.0010	3.6500	60.0010	10.0010	.0010
1.8500	25.0310	6.0010	.0010	3.7500	66.0010	11.0010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BATON NP B21 551 70	BUBBLE CHAMBER	NOT GIVEN	VS -T PI- ,RH-

DATA AT 15.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0075	559.0010	70.0010	.0010	.1000	118.0010	27.0010	.0010
.0225	515.0010	70.0010	.0010	.1600	123.0010	32.0010	.0010
.0375	383.0010	55.0010	.0010	.2750	29.0010	6.0010	.0010
.0525	256.0010	55.0010	.0010	.4750	7.0010	3.0010	.0010
.0700	165.0010	35.0010	.0010	.8000	5.0010	4.0010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
PRATT PL 418 383 72	SPARK CHAMBERS	17.0 P/C	VS -T PI- ,RH-

DATA AT 16.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0128	144.0010	41.5710	.0010	.2878	31.2010	8.6540	.0010
.0378	612.0010	85.7010	.0010	.4253	10.0010	4.4730	.0010
.0753	264.0310	39.8010	.0010	.7003	4.8760	1.9130	.0010
.1253	183.0010	33.1410	.0010	1.1503	1.8010	1.0400	.0010
.1878	128.0010	22.6310	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BARTSCH NP B46 46 72	BUBBLE CHAMBER	NOT GIVEN	VS TPR PI- ,RH-


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DATA AT .7200 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0040	8464.0830	626.9700	.0010	.0481	6112.9491	470.2278	.0010
.0120	7993.8562	783.7123	.0010	.0962	5329.2378	470.2278	.0010
	REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES
HYMAN	PR	165 1437 68	COUNTERS		7.0 P/C	DSIG/DOH	VS COST PI- ,N

DATA AT .7500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	5918.7132	443.9044	.0010	.0510	7842.2947	443.9044	.0010
.0127	7250.4235	443.9044	.0010	.1019	6066.6810	443.9044	.0010
	REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES
HYMAN	PR	165 1437 68	COUNTERS		7.0 P/C	DSIG/DOH	VS COST PI- ,N

DATA AT .7800 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	3221.3209	420.1732	.0010	.0538	8123.3295	420.1732	.0010
.0135	5882.4113	560.2306	.0010	.1077	7843.2147	420.1732	.0010
	REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES
HYMAN	PR	165 1437 68	COUNTERS		7.0 P/C	DSIG/DOH	VS COST PI- ,N

DATA AT .8050 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0000	2546.7736	268.0823	.0010	.0563	9114.7661	536.1637	.0010
.0141	5093.5462	402.1230	.0010	.1125	8310.5221	402.1230	.0010
	REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES
HYMAN	PR	165 1437 68	COUNTERS		7.0 P/C	DSIG/DOH	VS COST PI- ,N

DATA AT 1.0604 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0340	13475.2411	3045.7747	.0010	.7148	2861.1822	2953.4785	.0010
.1021	6737.6238	1938.2218	.0010	.7829	1107.5548	1107.5548	.0010
.1702	4153.3294	1845.9256	.0010	.8510	.0010	1107.5548	.0010
.2383	21966.4941	7291.4012	.0010	.9190	3784.1445	4061.0332	.0010
.3064	6091.5502	2030.5180	.0010	.9871	2768.8860	2030.5180	.0010
.3744	4522.5143	1938.2218	.0010	1.0552	2367.4067	2307.4067	.0010
.4425	2953.4785	1753.6293	.0010	1.1233	6368.4389	3691.8483	.0010
.5106	15321.1730	5168.5879	.0010	1.1913	8768.1408	3876.4407	.0010
.5787	2861.1822	1753.6293	.0010	1.2594	6276.1427	3138.0709	.0010
.6467	2676.5898	2768.8860	.0010	1.3275	10244.8777	5353.1804	.0010
	REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES
BIGI	NC	34 878 64	BUBBLE CHAMBER		NOT GIVEN	DSIG/DOH	VS COST PI- ,PIO

REACTION PI- P = N PI0

DATA AT 1.0907 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
.0353	7515.1725	2178.9561	.7418	.0010	711.4965
.1060	5691.9647	1867.6770	.8125	1467.4605	1022.7756
.1766	1912.1455	1111.7131	.8831	1334.0552	809.3702
.2473	3779.8199	1556.3974	.9538	3023.8557	1511.9290
.3179	4224.5048	1645.3343	1.0244	4446.8493	1778.7401
.3886	9560.7227	2445.7654	1.0950	4180.0363	1689.8032
.4592	4446.8493	1778.7401	1.1657	8493.4791	2536.7024
.5299	2401.2970	1156.1814	1.2363	9427.3129	2668.1079
.6005	6314.5235	1956.6138	1.3070	4446.8493	1867.6770
.6712	2890.2339	1245.1184	1.3776	5869.4859	1912.1455

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
WEINBERG PRL 8 70 62	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH VS COST PI- ,PI0

DATA AT 1.7100 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
.0312	2187.8364	271.5944	1.2805	618.6304	171.0042
.0937	1679.8559	251.4764	1.3430	261.5354	150.8862
.1562	1619.5018	241.4173	1.4054	316.8598	171.0042
.2186	1026.0208	191.1223	1.4679	357.0960	201.1813
.2811	804.7222	201.1813	1.5304	764.4861	176.0337
.3436	714.1911	160.9452	1.5928	342.0074	165.9747
.4060	211.2403	150.8862	1.6553	306.8010	165.9747
.4685	271.5944	110.6501	1.7177	55.3256	145.8567
.5309	165.9747	110.6501	1.7802	774.5453	181.0632
.5934	186.0927	115.6796	1.8427	392.3824	191.1223
.6559	216.2698	90.5321	1.9051	271.5944	196.1518
.7183	331.9485	115.6796	1.9676	191.1223	150.8862
.7808	160.9452	130.7681	2.0301	377.2141	221.2993
.8433	160.9452	130.7681	2.0925	160.9452	191.1223
.9057	507.9811	165.9747	2.1550	276.6239	160.9452
.9682	392.3824	155.9157	2.2175	145.8567	150.8862
1.0307	507.9811	186.0927	2.2799	95.5616	160.9452
1.0931	563.3059	165.9747	2.3424	135.7977	160.9452
1.1556	709.1617	181.0632	2.4048	135.7977	186.0927
1.2180	412.4205	160.9452	2.4673	221.2993	191.1223

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CARROL PR 177 2047 69	SPARK CHAMBERS	NOT GIVEN	DSIG/DOH VS COST PI- ,PI0

DATA AT 1.8900 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
.0353	1848.2447	267.2170	1.4461	325.1137	133.6090
.1058	1331.6269	236.0418	1.5166	405.2785	138.0626
.1764	774.9275	218.2274	1.5872	289.4850	129.1554
.2469	734.8451	209.3202	1.6577	57.8978	138.0626
.3174	293.9386	160.3306	1.7283	8.9082	133.6090
.3880	8.9082	169.2378	1.7988	142.5162	151.4234
.4585	133.6090	133.6090	1.8693	22.2690	142.5162
.5291	115.7946	102.4338	1.9399	169.2378	160.3306
.5996	22.2690	102.4338	2.0104	302.8457	155.8770
.6701	187.0522	80.1657	2.0810	302.8457	133.6090
.7407	120.2482	84.6193	2.1515	164.7842	142.5162
.8112	231.5882	84.6193	2.2220	97.9801	120.2482
.8818	276.1242	93.5265	2.2926	396.3715	138.0626
.9523	432.0001	102.4338	2.3631	142.5162	178.1450
1.0228	614.5978	138.0626	2.4337	191.5058	164.7842
1.0934	360.7426	124.7018	2.5042	22.2690	142.5162
1.1639	405.2785	115.7946	2.5747	173.6914	115.7946
1.2345	338.4746	115.7946	2.6453	80.1657	111.3410
1.3050	298.3922	178.1450	2.7158	80.1657	164.7842
1.3755	342.9281	138.0626	2.7864	124.7018	142.5162

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CARROL PR 177 2047 69	SPARK CHAMBERS	NOT GIVEN	DSIG/DOH VS COST PI- ,PI0

DATA AT 2.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
2.4093	36.9010	8.9010	2.8623	40.8010	4.9010
2.4863	47.4010	7.1010	2.9063	70.6010	7.1010
2.5603	43.8010	5.7010	2.9433	70.6010	7.1010

TURN TO NEXT PAGE

REACTION PI- P = N PI0

CONTINUATION OF DATA AT 2.000 GEV/C

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
2.6303	33.5010	4.7010	2.9733	78.6010	7.1010
2.6963	35.7010	4.6010	2.9963	84.7010	7.6010
2.7623	24.8010	3.7010	3.0113	82.4010	11.5010
2.8133	47.5010	5.2010	3.0183	42.0010	8.8010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CHASE PRL 22 1137 69	SPARK CHAMBERS	20.0 P/C	DSIG/DT VS -T PI- ,N

DATA AT 2.0700 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.0393	1805.0171	227.6235	1.6127	127.7890	107.8221
.1180	1912.8283	207.6566	1.6914	99.8354	103.8288
.1967	810.6566	167.7228	1.7701	195.6765	83.8619
.2754	618.9745	151.7493	1.8488	143.7625	67.8884
.3540	311.4843	127.7890	1.9274	15.9745	99.8354
.4327	267.5572	115.8089	2.0061	75.8751	71.8817
.5114	75.8751	91.8486	2.0848	3.9944	91.8486
.5900	159.7361	87.8552	2.1634	203.6632	87.8552
.6687	55.9083	75.8751	2.2421	3.9944	123.7957
.7474	103.8288	75.8751	2.3208	23.9613	115.8089
.8260	175.7096	83.8619	2.3994	215.6434	107.8221
.9047	183.6963	87.8552	2.4781	123.7957	107.8221
.9834	247.5904	79.8685	2.5568	143.7625	123.7957
1.0621	263.5639	79.8685	2.6355	191.6831	91.8486
1.1407	183.6963	99.8354	2.7141	87.8552	107.8221
1.2194	435.2790	115.8089	2.7928	35.9414	87.8552
1.2981	107.8221	107.8221	2.8715	51.9149	115.8089
1.3767	319.4712	103.8288	2.9501	67.8884	63.8951
1.4554	75.8751	103.8288	3.0288	299.5043	115.8089
1.5341	123.7957	107.8221	3.1075	339.4380	119.8023

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CARROL PR 177 2047 69	SPARK CHAMBERS	NOT GIVEN	DSIG/DT VS COST PI- ,PI0

DATA AT 2.2700 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.0439	1206.4930	179.0058	1.7989	71.6029	75.1830
.1316	998.8473	168.2655	1.8867	53.7025	103.8238
.2194	426.0324	150.3650	1.9744	93.0835	57.2826
.3071	386.6514	136.0446	2.0622	75.1830	42.9622
.3949	272.0883	96.6636	2.1499	64.4427	53.7025
.4826	153.9451	78.7631	2.2377	28.6418	57.2826
.5704	211.2267	75.1830	2.3254	32.2219	71.6029
.6581	146.7849	60.8626	2.4132	7.1612	53.7025
.7459	186.1660	75.1830	2.5009	153.9451	71.6029
.8336	153.9451	68.0228	2.5887	261.3479	78.7631
.9214	157.5252	60.8626	2.6764	68.0228	89.5034
1.0092	250.6378	68.0228	2.7642	103.8238	60.8626
1.0969	3.5811	68.0228	2.8519	103.8238	93.0835
1.1847	153.9451	89.5034	2.9397	232.7073	96.6636
1.2724	272.0883	71.6029	3.0274	150.3650	71.6029
1.3602	286.4087	82.3432	3.1152	32.2219	53.7025
1.4479	189.7461	75.1830	3.2029	21.4816	53.7025
1.5357	225.5470	82.3432	3.2907	3.5811	75.1830
1.6234	168.2655	75.1830	3.3784	21.4816	96.6636
1.7112	50.1224	68.0228	3.4662	118.1441	78.7631

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CARROL PR 177 2047 69	SPARK CHAMBERS	NOT GIVEN	DSIG/DT VS COST PI- ,PI0

DATA AT 2.4000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.0050	690.0010	180.0010	.0750	990.0010	160.0010
.0200	870.0010	200.0010	.1100	1160.0010	150.0010
.0450	1230.0010	150.0010			

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
MANNELLI PR 168 1515 68	COUNTERS	10.0 P/C	DSIG/DT VS -T PI- ,PI0

REACTION PI- P = N PI0

DATA AT 2.4600 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0482	1019.8573	136.8508	.0010	1.9766	58.6509	55.3925	.0010
.1446	778.7416	127.0758	.0010	2.0730	84.7175	58.6509	.0010
.2411	371.4504	101.0091	.0010	2.1694	39.1010	52.1343	.0010
.3375	276.9589	81.4592	.0010	2.2658	58.6509	45.6176	.0010
.4339	172.6924	84.7175	.0010	2.3622	65.1675	42.3593	.0010
.5303	65.1675	61.9092	.0010	2.4586	19.5510	42.3593	.0010
.6267	185.7257	55.3925	.0010	2.5551	120.5591	39.1010	.0010
.7231	133.5924	45.6176	.0010	2.6515	16.2926	39.1010	.0010
.8196	133.5924	48.8759	.0010	2.7479	133.5924	45.6176	.0010
.9160	185.7257	58.6509	.0010	2.8443	52.1343	58.6509	.0010
1.0124	97.7508	55.3925	.0010	2.9407	149.8841	52.1343	.0010
1.1088	159.6591	52.1343	.0010	3.0372	58.6509	61.9092	.0010
1.2052	149.8841	52.1343	.0010	3.1336	58.6509	55.3925	.0010
1.3016	149.8841	55.3925	.0010	3.2300	22.8093	45.6176	.0010
1.3981	169.4341	48.8759	.0010	3.3264	13.0343	55.3925	.0010
1.4945	205.2756	55.3925	.0010	3.4228	123.8175	58.6509	.0010
1.5909	211.7923	55.3925	.0010	3.5192	84.7175	55.3925	.0010
1.6873	143.3674	58.6509	.0010	3.6157	127.0758	65.1675	.0010
1.7837	140.1091	52.1343	.0010	3.7121	91.2342	52.1343	.0010
1.8801	68.4259	48.8759	.0010	3.8085	149.8841	81.4592	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CARROL PR 177 2047 69	SPARK CHAMBERS	NOT GIVEN	DSIG/DOH VS COST PI- ,PI0

DATA AT 2.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0050	270.0010	170.0010	.0010	.0750	620.0010	170.0010	.0010
.0200	630.0010	200.0010	.0010	.1100	980.0010	130.0010	.0010
.0450	1000.0010	150.0010	.0010	.1550	670.0010	130.0010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
MANNELLI PR 168 1515 68	COUNTERS	10.0 P/C	DSIG/DT VS -T PI- ,PI0

DATA AT 2.6000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0050	700.0010	140.0010	.0010	.0750	1140.0010	120.0010	.0010
.0200	1100.0010	130.0010	.0010	.1100	1000.0010	90.0010	.0010
.0450	1150.0010	110.0010	.0010	.1550	600.0010	70.0010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
MANNELLI PR 168 1515 68	COUNTERS	10.0 P/C	DSIG/DT VS -T PI- ,PI0

DATA AT 2.8000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0050	780.0010	170.0010	.0010	.0750	1090.0010	100.0010	.0010
.0200	1170.0010	110.0010	.0010	.1100	860.0010	90.0010	.0010
.0450	1040.0010	110.0010	.0010	.1550	570.0010	70.0010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
MANNELLI PR 168 1515 68	COUNTERS	10.0 P/C	DSIG/DT VS -T PI- ,PI0

DATA AT 2.9000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0050	1250.0010	180.0010	.0010	.1100	770.0010	80.0010	.0010
.0200	1070.0010	130.0010	.0010	.1550	620.0010	60.0010	.0010
.0450	1110.0010	110.0010	.0010	.2050	490.0010	70.0010	.0010
.0750	1130.0010	100.0010	.0010				

REACTION PI- P = N PI0

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
MANNELLI	PR	168	1515	68	COUNTERS	10.0 P/C	DSIG/DT	VS -T	PI- ,PI0
DATA AT 3.0000 GEV/C FOLLOW									
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR			
		+	-			+	-		
.0050	1280.0010	210.0010	.0010	* 4.2028	13.3010	1.9010	.0010		
.0200	850.0010	150.0010	.0010	* 4.3218	19.6010	2.2010	.0010		
.0450	1050.0010	110.0010	.0010	* 4.4308	10.3010	1.6010	.0010		
.0750	1120.0010	120.0010	.0010	* 4.5398	9.8110	1.7010	.0010		
.1100	790.0010	90.0010	.0010	* 4.6168	10.5010	1.8010	.0010		
.1550	600.0010	70.0010	.0010	* 4.6908	18.9010	2.6010	.0010		
.2050	460.0010	60.0010	.0010	* 4.7518	25.8010	2.8010	.0010		
* 3.6638	15.4010	3.7010	.0010	* 4.7978	52.9010	4.2010	.0010		
* 3.8058	10.9010	2.4010	.0010	* 4.8298	62.7010	6.9010	.0010		
* 3.9428	14.5010	2.3010	.0010	* 4.8458	49.7010	7.0010	.0010		
* 4.0758	19.0010	2.5010	.0010						

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES			
MANNELLI	PR	168	1515	68	COUNTERS	10.0 P/C	DSIG/DT	VS -T	PI- ,PI0
* CHASE	PRL	22	1137	69	SPARK CHAMBERS	20.0 P/C	DSIG/DT	VS -T	PI- ,N

DATA AT 3.0700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR			
		+	-			+	-		
.0250	940.0010	50.0010	.0010	.4500	52.0010	8.0010	.0010		
.0750	990.0010	50.0010	.0010	.6000	35.0010	5.0010	.0010		
.1250	765.0010	50.0010	.0010	.8000	56.0010	6.0010	.0010		
.1750	520.0010	40.0010	.0010	1.0000	74.0010	7.0010	.0010		
.2250	400.0010	35.0010	.0010	1.2000	56.0010	8.0010	.0010		
.2750	250.0010	30.0010	.0010	1.4000	35.0010	9.0010	.0010		
.3500	110.0010	12.0010	.0010						

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
SONDEREGGER	PL	20	75	66	SPARK CHAMBERS	10.0 P/C	DSIG/DT	VS -T	PI- ,PI0

DATA AT 3.1000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR			
		+	-			+	-		
.0050	1340.0010	190.0010	.0010	.1100	770.0010	80.0010	.0010		
.0200	1020.0010	140.0010	.0010	.1550	590.0010	60.0010	.0010		
.0450	1050.0010	110.0010	.0010	.2050	430.0010	60.0010	.0010		
.0750	980.0010	100.0010	.0010						

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
MANNELLI	PR	168	1515	68	COUNTERS	10.0 P/C	DSIG/DT	VS -T	PI- ,PI0

DATA AT 3.2000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR			
		+	-			+	-		
.0050	1110.0010	190.0010	.0010	.1100	780.0010	90.0010	.0010		
.0200	860.0010	140.0010	.0010	.1550	560.0010	70.0010	.0010		
.0450	930.0010	110.0010	.0010	.2050	390.0010	60.0010	.0010		
.0750	730.0010	100.0010	.0010						

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES			
MANNELLI	PR	168	1515	68	COUNTERS	10.0 P/C	DSIG/DT	VS -T	PI- ,PI0

DATA AT 3.3000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR			
		+	-			+	-		
.0050	630.0010	160.0010	.0010	.0750	930.0010	110.0010	.0010		
.0200	790.0010	140.0010	.0010	.1100	650.0010	80.0010	.0010		
.0450	1060.0010	100.0010	.0010	.1550	510.0010	60.0010	.0010		

REACTION PI- P = N PI0

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
MANNELLI PR 168 1515 68	COUNTERS	10.0 P/C	DSIG/DT VS -T PI- ,PI0

DATA AT 3.4000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+ -			+ -		
.0050	420.0010	150.0010	.0010	.1100	710.0010	90.0010	.0010
.0200	520.0010	120.0010	.0010	.1550	520.0010	70.0010	.0010
.0450	830.0010	110.0010	.0010	.2050	310.0010	50.0010	.0010
.0750	940.0010	120.0010	.0010	.2050	310.0010	60.0010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
MANNELLI PR 168 1515 68	COUNTERS	10.0 P/C	DSIG/DT VS -T PI- ,PI0

DATA AT 3.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+ -			+ -		
.0050	260.0010	140.0010	.0010	.1100	880.0010	90.0010	.0010
.0200	570.0010	140.0010	.0010	.1550	490.0010	60.0010	.0010
.0450	890.0010	110.0010	.0010	.2050	320.0010	60.0010	.0010
.0750	300.0010	100.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
MANNELLI PR 168 1515 68	COUNTERS	10.0 P/C	DSIG/DT VS -T PI- ,PI0

DATA AT 3.6000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+ -			+ -		
.0050	200.0010	170.0010	.0010	.1100	750.0010	90.0010	.0010
.0200	440.0010	150.0010	.0010	.1550	520.0010	70.0010	.0010
.0450	700.0010	110.0010	.0010	.2050	490.0010	50.0010	.0010
.0750	810.0010	100.0010	.0010	.2600	240.0010	40.0010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
MANNELLI PR 168 1515 68	COUNTERS	10.0 P/C	DSIG/DT VS -T PI- ,PI0

DATA AT 3.6700 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+ -			+ -		
.0250	750.0010	40.0010	.0010	.6000	21.0010	3.0010	.0010
.0750	715.0010	40.0010	.0010	.8000	38.0010	4.5010	.0010
.1250	556.0010	35.0010	.0010	1.0000	48.0010	6.0010	.0010
.1750	396.0010	30.0010	.0010	1.2000	49.0010	6.0010	.0010
.2250	267.0010	25.0010	.0010	1.4000	28.0010	4.5010	.0010
.2750	162.0010	18.0010	.0010	1.6000	19.0010	4.0010	.0010
.3500	77.0010	10.0010	.0010	1.8500	6.0010	2.0010	.0010
.4500	38.0010	6.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
SONDEREGGER PL 20 75 66	SPARK CHAMBERS	10.0 P/C	DSIG/DT VS -T PI- ,PI0

DATA AT 3.8000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+ -			+ -		
.0050	800.0010	190.0010	.0010	.1100	660.0010	90.0010	.0010
.0200	790.0010	130.0010	.0010	.1550	360.0010	60.0010	.0010
.0450	500.0010	120.0010	.0010	.2050	260.0010	50.0010	.0010
.0750	600.0010	110.0010	.0010	.2600	170.0010	40.0010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
MANNELLI PR 168 1515 68	COUNTERS	10.0 P/C	DSIG/DT VS -T PI- ,PI0

REACTION PI- P = N PIO

DATA AT 4.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		*	-T	DSIG/DT	ERROR	
		+	-				+	-
4.9088	1.2610	.6310	.0010	*	6.4568	.0010	3.0010	.0010
5.0488	2.5710	.7710	.0010	*	6.5068	.0010	3.0010	.0010
5.1988	2.9410	.7610	.0010	*	6.5218	9.3410	1.3110	.0010
5.3388	1.8310	.5510	.0010	*	6.5668	.0010	3.0010	.0010
5.4788	4.3610	.7810	.0010	*	6.5788	13.3010	1.5010	.0010
5.5088	3.5810	.6810	.0010	*	6.6068	11.0010	5.0010	.0010
5.7368	5.4510	.8210	.0010	*	6.6258	16.6010	1.8010	.0010
5.8608	5.7510	.8610	.0010	*	6.6418	15.0010	7.0010	.0010
5.9788	5.0510	.8110	.0010	*	6.6608	20.2010	2.8010	.0010
6.0898	7.9210	1.0310	.0010	*	6.6668	27.0010	10.0010	.0010
6.1938	3.8910	.7810	.0010	*	6.6818	37.0010	16.0010	.0010
6.2898	4.9310	.8910	.0010	*	6.6838	21.3010	3.4010	.0010
6.3768	3.6410	.8010	.0010	*	6.6918	57.0010	20.0010	.0010
6.4538	5.6110	1.0710	.0010	*	6.6958	20.5010	3.9010	.0010

	REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
CHASE	PRL 22 1137 69	SPARK CHAMBERS	20.0 P/C	VS -T PI- ,N
* SCHNEIDER	PRL 23 1068 69	SPARK CHAMBERS	NOT GIVEN	VS -T PI- ,N

DATA AT 4.8300 GEV/C FOLLOW

-T	DSIG/DT	ERROR		*	-T	DSIG/DT	ERROR	
		+	-				+	-
.0250	531.0010	35.0010	.0010	*	.8000	21.5010	3.0010	.0010
.0750	504.0010	35.0010	.0010	*	1.0000	25.5010	4.0010	.0010
.1250	382.0010	30.0010	.0010	*	1.2000	23.0010	3.5010	.0010
.1750	310.0010	25.0010	.0010	*	1.4000	13.5010	3.0010	.0010
.2250	184.0010	20.0010	.0010	*	1.6000	9.5010	2.0010	.0010
.2750	116.0010	15.0010	.0010	*	1.8500	5.5010	1.5010	.0010
.3500	68.0010	8.0010	.0010	*	2.2500	1.2010	.6010	.0010
.4500	21.0010	4.0010	.0010	*	2.7500	.2510	.3010	.0010
.6000	9.5010	2.0010	.0010	*				

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
SONDEREGGER	PL 20 75 66	SPARK CHAMBERS	10.0 P/C	VS -T PI- ,PIO

DATA AT 5.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		*	-T	DSIG/DT	ERROR	
		+	-				+	-
6.1844	.4010	.2010	.0010	*	7.9474	2.5910	.4410	.0010
6.3844	.3010	.1810	.0010	*	8.0764	3.3910	.5110	.0010
6.5744	.6610	.2210	.0010	*	8.1914	1.9410	.4310	.0010
6.7744	.8910	.2410	.0010	*	8.2924	3.4910	.5610	.0010
6.9544	1.7710	.3210	.0010	*	8.3784	4.6310	.6010	.0010
7.1444	1.1810	.2610	.0010	*	8.4484	6.5410	.7810	.0010
7.3244	1.6510	.3010	.0010	*	8.5014	7.4910	1.2010	.0010
7.4924	2.2010	.3510	.0010	*	8.5364	14.2010	1.8010	.0010
7.6544	2.2810	.3610	.0010	*	8.5544	16.6010	2.3010	.0010
7.8064	3.2710	.4610	.0010	*				

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CHASE	PRL 22 1137 69	SPARK CHAMBERS	20.0 P/C	VS -T PI- ,N

DATA AT 5.8500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		*	-T	DSIG/DT	ERROR	
		+	-				+	-
.0250	404.0010	20.0010	.0010	*	.8000	8.6010	1.0010	.0010
.0750	396.0010	20.0010	.0010	*	1.0000	11.0010	1.5010	.0010
.1250	337.0010	15.0010	.0010	*	1.2000	10.0010	1.5010	.0010
.1750	229.0010	15.0010	.0010	*	1.4000	6.0010	1.0010	.0010
.2250	142.0010	10.0010	.0010	*	1.6000	2.9010	.7010	.0010
.2750	87.0010	8.0010	.0010	*	1.8500	1.5010	.4010	.0010
.3500	41.0010	4.0010	.0010	*	2.2500	.2510	.1510	.0010
.4500	13.0010	2.0010	.0010	*	2.7500	.0990 U	.0010	.0010
.6000	8.5010	1.0010	.0010	*				

U=UPPER LIMIT

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
SONDEREGGER	PL 20 75 66	SPARK CHAMBERS	10.0 P/C	VS -T PI- ,PIO

REACTION PI- P = N PI0

DATA AT 5.9000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0100	374.0010	13.0010	.0010	* 8.8087	.3700	.0610	.0660
.0300	430.0010	13.0010	.0010	* 8.9587	.5120	.0740	.0910
.0500	411.0010	13.0010	.0010	* 9.1087	.7420	.0840	.1000
.0700	412.0010	13.0010	.0010	* 9.2587	1.3710	.1210	.1300
.0900	397.0010	13.0010	.0010	* 9.4087	1.8110	.1310	.1400
.1200	332.0010	9.0010	.0010	* 9.5587	1.8010	.1310	.1400
.1600	252.0010	8.0010	.0010	* 9.7087	1.5110	.1210	.1300
.2100	164.0010	6.0010	.0010	* 9.8464	.8410	.1010	.1100
.2800	85.0010	4.0010	.0010	* 9.9339	.6310	.1410	.1500
.3600	32.0010	2.0010	.0010	* 9.9839	.7210	.1610	.1700
.4500	12.4010	1.5010	.0010	* 10.0339	1.9410	.2110	.2200
.5500	5.7310	1.0010	.0010	* 10.0839	1.9410	.2710	.2800
.6500	6.1010	1.0010	.0010	* 10.1339	2.9710	.3210	.3300
.8000	8.8010	1.4010	.0010	* 10.1839	4.8310	.4210	.4300
* 8.2837	.0720	.0260	.0290	* 10.2217	10.2010	1.4010	.3010
* 8.5837	.1650	.0310	.0360				

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
STIRLING	PRL 14 763 65	5.0 P/C	VS -T PI- ,PI0
* BORIGHT	PL 33B 615 70	15.0 P/C	VS -T PI- ,N

DATA AT 6.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0200	382.0010	64.0010	.0010	* 9.7523	2.1310	.3610	.0010
.0600	402.0010	46.0010	.0010	* 9.8963	1.5710	.1410	.0010
.1100	252.0010	46.0010	.0010	* 9.9113	1.8910	.3610	.0010
.1700	194.0010	39.0010	.0010	* 10.0213	.6010	.2010	.0010
.2400	124.0010	26.0010	.0010	* 10.0523	1.5410	.2910	.0010
.3300	43.0010	16.0010	.0010	* 10.1213	.3610	.1210	.0010
.4400	17.0010	8.0010	.0010	* 10.1723	2.1010	.3610	.0010
.5600	2.0010	4.0010	.0010	* 10.1813	.5010	.4010	.0010
.6900	10.0010	7.0010	.0010	* 10.1963	.5010	.2010	.0010
.8300	10.0010	6.0010	.0010	* 10.2313	1.0610	.2810	.0010
* 7.7303	.1610	.0910	.0010	* 10.2463	1.3310	.2210	.0010
* 7.9943	.3310	.1310	.0010	* 10.2693	4.0810	.5310	.0010
* 8.2443	.2310	.1010	.0010	* 10.2913	2.5010	.4010	.0010
* 8.4803	.5410	.1510	.0010	* 10.2963	1.9910	.2710	.0010
* 8.7303	.5310	.1610	.0010	* 10.3313	4.5010	.5010	.0010
* 8.9503	.8510	.1910	.0010	* 10.3433	6.1110	.9810	.0010
+ 8.9963	.2310	.0510	.0010	* 10.3463	4.1410	.4310	.0010
+ 9.1463	.3310	.0610	.0010	* 10.3663	6.9010	.8010	.0010
* 9.1703	1.0110	.2110	.0010	* 10.3843	6.3710	.8510	.0010
+ 9.2963	.8510	.1010	.0010	* 10.3913	8.8010	1.2010	.0010
* 9.3803	1.8210	.2910	.0010	* 10.3933	9.7110	1.3610	.0010
+ 9.4463	1.5610	.1510	.0010	* 10.4063	11.3010	1.8010	.0010
* 9.5743	1.6310	.3010	.0010	* 10.4093	13.8810	1.4610	.0010
+ 9.5963	1.8910	.1610	.0010	* 10.4163	14.0010	2.0010	.0010
+ 9.7463	1.7010	.1410	.0010	* 10.4183	15.7010	2.0010	.0010

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
MANNELLI	PR 168 1515 68	10.0 P/C	VS -T PI- ,PI0
* CHASE	PRL 22 1137 69	20.0 P/C	VS -T PI- ,N
+ BOPIGHT	PRL 24 964 70	20.0 P/C	VS -T PI- ,N
* SCHNEIDER	PRL 23 1068 69	NOT GIVEN	VS -T PI- ,N

DATA AT 8.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
13.9196	.4410	.2510	.0010	14.1046	2.8010	.4010	.0010
13.9696	.5310	.1710	.0010	14.1296	3.2010	.6010	.0010
14.0296	1.5010	.3010	.0010	14.1446	4.5010	.9010	.0010
14.0696	2.0010	.3010	.0010	14.1546	5.6010	1.0010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
SCHNEIDER	PRL 23 1068 69	NOT GIVEN	VS -T PI- ,N

DATA AT 9.6000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0100	216.0010	10.0010	.0010	.2100	87.0010	4.0010	.0010
.0300	251.0010	10.0010	.0010	.2800	43.0010	2.0010	.0010
.0500	247.0010	10.0010	.0010	.3600	17.0010	1.8010	.0010
.0700	235.0010	10.0010	.0010	.4500	8.0010	1.0010	.0010

TURN TO NEXT PAGE

REACTION PI- P = N PI0

CONTINUATION OF DATA AT 9.860 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0900	218.0010	10.0010	.0010	.5500	3.7010	.7010	.0010
.1200	175.0010	6.0010	.0010	.6500	2.9010	.7010	.0010
.1600	125.0010	5.0010	.0010	.8000	3.5010	.6010	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
STIRLING	PRL	14	763 65	SPARK CHAMBERS	5.0 P/C	DSIG/DT	VS -T PI- ,PI0

DATA AT 10.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0400	230.0010	7.0010	.0010	.8400	2.6010	.5010	.0010
.1200	163.0010	6.0010	.0010	1.1000	3.3010	.5010	.0010
.2000	89.0010	4.0010	.0010	1.4000	1.0010	.3010	.0010
.3000	37.0010	3.0010	.0010	1.7400	.4010	.2010	.0010
.4400	9.0010	2.0010	.0010	2.1200	.2010	.2010	.0010
.6200	.6010	.6010	.0010				
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
MANNELLI	PR	168	1515 68	COUNTERS	8.0 P/C	DSIG/DT	VS -T PI- ,PI0

DATA AT 10.1000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
16.1656	.0344	.0043	.0044	17.7906	.2050	.0370	.0590
16.4656	.0240	.0090	.0140	17.8656	.1820	.0460	.0660
16.7656	.0580	.0120	.0010	17.9156	.2130	.0630	.0970
17.0531	.1410	.0170	.0010	17.9656	.3190	.0600	.0010
17.3156	.2340	.0240	.0010	18.0156	.6980	.0950	.0010
17.5406	.2370	.0300	.0010	18.0531	1.1210	.1510	.0010
17.6906	.2360	.0380	.0610	18.0761	1.9610	.3010	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BORIGHT	PL	338	615 70	SPARK CHAMBERS	15.0 P/C	DSIG/DT	VS -T PI- ,N

DATA AT 11.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
19.5365	.0310	3.0010	.0010	19.7215	1.9010	.5010	.0010
19.5865	.3410	.1610	.0010	19.7465	1.9010	.5010	.0010
19.6465	.7310	.1810	.0010	19.7615	1.4010	.7010	.0010
19.6865	1.0310	.3010	.0010	19.7715	1.9010	.7010	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
SCHNEIDER	PRL	23	1068 69	SPARK CHAMBERS	NOT GIVEN	DSIG/DT	VS -T PI- ,N

DATA AT 13.3000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0100	195.0010	6.0010	.0010	.3600	9.9010	.6010	.0010
* .0250	193.0010	25.0010	.0010	* .4500	3.3010	.8010	.0010
.0360	203.0010	6.0010	.0010	.4500	3.5010	.4010	.0010
.0500	215.0010	6.0010	.0010	.5500	.9010	.3010	.0010
.0760	189.0010	6.0010	.0010	* .6000	1.3010	.3010	.0010
* .0750	224.0010	25.0010	.0010	* .6500	1.5010	.3010	.0010
.0900	174.0010	5.0010	.0010	* .8000	1.2010	.2510	.0010
.1200	136.0010	3.0010	.0010	* .8000	1.5010	.2010	.0010
* .1250	133.0010	15.0010	.0010	* 1.0000	2.0010	.3510	.0010
.1600	94.0010	2.5010	.0010	* 1.2000	.9010	.2510	.0010
* .1750	85.0010	10.0010	.0010	* 1.4000	.6010	.2010	.0010
.2100	60.0010	2.0010	.0010	* 1.6000	.2510	.1510	.0010
* .2250	69.0010	8.0010	.0010	* 1.8500	.0810	.0610	.0010
* .2750	26.0010	4.0010	.0010	* 2.2500	.1010	.0610	.0010
* .2800	33.4010	1.6010	.0010	* 2.7500	.0390 U	.0010	.0010
* .3500	11.4010	1.5010	.0010				

U=UPPER LIMIT

REACTION PI- P = N PI0

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES				
STIRLING	PRL	14	763	65	SPARK CHAMBERS	5.0 P/C	DSIG/DT	VS	-T	PI- ,PI0
* SONDEREGGER	PL	20	75	66	SPARK CHAMBERS	15.0 P/C	DSIG/DT	VS	-T	PI- ,PI0

DATA AT 13.8000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
23.2484	.0078	.0066	.0078	24.3984	.0760	.0160	.0010
23.4984	.0078	.0052	.0064	24.5484	.0530	.0140	.0010
23.7234	.0230	.0090	.0100	24.6984	.0440	.0180	.0240
23.9234	.0450	.0120	.0010	24.8984	.0640	.0290	.0010
24.0984	.0660	.0160	.0010	24.9484	.1660	.0410	.0010
24.2484	.1140	.0210	.0010	24.9984	.4010	.0810	.0010
24.2754	.0390	.0170	.0220				

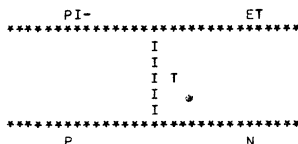
REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES				
BORIGHT	PL	338	615	70	SPARK CHAMBERS	20.0 P/C	DSIG/DT	VS	-T	PI- ,N

DATA AT 18.2000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0100	141.0010	8.0010	.0010	* .3600	5.5010	1.0010	.0010
* .0250	142.0010	8.0010	.0010	* .4500	1.8010	.7010	.0010
.0300	144.0010	8.0010	.0010	* .4500	1.6010	.4010	.0010
.0500	144.0010	8.0010	.0010	* .5500	.5010	.2010	.0010
.0700	125.0010	7.0010	.0010	* .6000	.2510	.2010	.0010
* .0750	115.0010	8.0010	.0010	* .6500	.2010	.2010	.0010
.0900	120.0010	7.0010	.0010	* .8000	.9010	.3010	.0010
.1200	94.0010	5.0010	.0010	* .8000	.2510	.2010	.0010
* .1250	77.0010	7.0010	.0010	* 1.0000	.6010	.3010	.0010
.1600	60.0010	4.0010	.0010	* 1.2000	.2010	.2010	.0010
* .1750	52.0010	6.0010	.0010	* 1.4000	.1810	.1810	.0010
.2100	41.0010	3.0010	.0010	* 1.6000	.1210	.1510	.0010
* .2250	34.0010	4.0010	.0010	* 1.8500	.1190 U	.0010	.0010
* .2750	18.0010	3.0010	.0010	* 2.2500	.8690 U	.0010	.0010
* .2800	17.5010	2.0010	.0010	* 2.7500	.8690 U	.0010	.0010
* .3500	6.8010	1.5010	.0010				

U=UPPER LIMIT

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES				
STIRLING	PRL	14	763	65	SPARK CHAMBERS	10.0 P/C	DSIG/DT	VS	-T	PI- ,PI0
* SONDEREGGER	PL	20	75	66	SPARK CHAMBERS	15.0 P/C	DSIG/DT	VS	-T	PI- ,PI0



DATA AT .7180 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1178	8239.6371	495.5052	.0010	.1990	7184.8126	495.5052	.0010
.1280	8485.5112	619.3813	.0010	.2091	7060.9365	495.5052	.0010
.1381	8981.0154	557.4433	.0010	.2193	6007.9900	433.5672	.0010
.1483	7556.4407	495.5052	.0010	.2294	6689.3083	433.5672	.0010
.1584	8609.3873	495.5052	.0010	.2396	6565.4322	929.0715	.0010
.1686	7928.0589	495.5052	.0010	.2497	5760.2379	743.2574	.0010
.1787	7432.5647	495.5052	.0010	.2599	7060.9365	619.3813	.0010
.1888	7338.6886	495.5052	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DEINET NP B11 495 69	COUNTERS	7.0 P/C	DSIG/DOM VS COST PI-,ET

DATA AT .7430 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1052	8743.4856	1070.6318	.0010	.2179	8297.3894	981.4125	.0010
.1193	7449.8367	1026.0221	.0010	.2320	6959.1009	1070.6318	.0010
.1334	7806.6836	1026.0221	.0010	.2460	5263.9356	1070.6318	.0010
.1474	7182.1490	981.4125	.0010	.2601	5397.7644	1159.8510	.0010
.1615	8208.1702	1026.0221	.0010	.2742	5442.3740	936.8029	.0010
.1756	6230.7375	892.1933	.0010	.2883	4684.0106	892.1933	.0010
.1897	6646.8336	892.1933	.0010	.3024	6736.0529	847.5837	.0010
.2038	7137.5394	936.8029	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DEINET NP B11 495 69	COUNTERS	7.0 P/C	DSIG/DOM VS COST PI-,ET

DATA AT .7630 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0991	7343.4284	636.9309	.0010	.2333	4533.4434	449.5986	.0010
.1159	6519.1561	599.4645	.0010	.2501	5057.9739	487.0651	.0010
.1327	7043.6966	599.4645	.0010	.2668	4533.4434	412.1321	.0010
.1494	5769.8368	524.5315	.0010	.2836	4870.6416	449.5986	.0010
.1662	4196.2452	524.5315	.0010	.3004	4945.5745	449.5986	.0010
.1830	5020.5175	487.0651	.0010	.3171	3933.9800	449.5986	.0010
.1997	5170.3733	487.0651	.0010	.3339	4645.8428	487.0651	.0010
.2165	4645.8428	449.5986	.0010	.3507	5357.7057	487.0651	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DEINET NP B11 495 69	COUNTERS	7.0 P/C	DSIG/DOM VS COST PI-,ET

DATA AT .8500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0888	5446.7887	848.8510	.0010	.3020	2805.9219	589.4802	.0010
.1154	3890.5636	801.6927	.0010	.3286	1650.5427	589.4802	.0010
.1421	3866.9845	707.3760	.0010	.3553	2405.0761	518.7427	.0010
.1687	2758.7636	660.2177	.0010	.3819	1178.9594	825.2719	.0010
.1954	3749.0886	730.9552	.0010	.4086	1650.5427	660.2177	.0010
.2220	3513.2970	636.6385	.0010	.4352	2475.8136	613.0594	.0010
.2487	2664.4469	613.0594	.0010	.4619	3442.5595	542.3219	.0010
.2753	2970.9761	613.0594	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DEINET NP B11 495 69	COUNTERS	7.0 P/C	DSIG/DOM VS COST PI-,ET

REACTION PI- P = N ET

DATA AT .8900 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0882	2656.6268	613.0685	.0010	.3034	1573.5409	408.7127	.0010
.1189	2574.8845	531.3262	.0010	.3341	1328.3139	367.8415	.0010
.1497	2697.4980	490.4550	.0010	.3649	694.8108	347.4059	.0010
.1804	2023.1237	408.7127	.0010	.3956	470.0194	347.4059	.0010
.2111	1716.5900	429.1482	.0010	.4264	367.8415	265.6636	.0010
.2419	2309.2219	449.5838	.0010	.4571	837.8599	326.9703	.0010
.2726	1593.9765	408.7127	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DEINET NP B11 495 69	COUNTERS	7.0 P/C	DSIG/DT VS COST PI- ,ET

DATA AT 1.0500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0955	1482.5705	258.4306	.0010	.3264	1115.3285	204.0243	.0010
.1417	1074.5239	231.2274	.0010	.3726	748.0865	190.4228	.0010
.1879	1020.1177	217.6259	.0010	.4188	720.8834	204.0243	.0010
.2341	1482.5705	204.0243	.0010	.4659	462.4539	231.2274	.0010
.2803	1564.1799	204.0243	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DEINET NP B11 495 69	COUNTERS	7.0 P/C	DSIG/DT VS COST PI- ,ET

DATA AT 2.9100 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0500	344.5606	41.4152	.0010	.4000	204.6642	25.1900	.0010
.1500	388.6020	47.4243	.0010	.6000	82.9026	14.1931	.0010
.2500	349.7419	43.7497	.0010	.8500	31.0891	10.5894	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
GUISAN PL 18 200 65	SPARK CHAMBERS	10.0 P/C	DSIG/DT VS -T PI- ,ET

DATA AT 3.6500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2500	240.1564	31.3133	.0010	1.1500	7.7730	1.9439	.0010
.3500	186.0114	24.2530	.0010	1.2500	2.3067	.9475	.0010
.4500	131.3482	17.1295	.0010	1.3500	1.2963	.7577	.0010
.5500	93.7834	12.2217	.0010	1.4500	1.6072	.8119	.0010
.6500	59.8456	8.3088	.0010	1.5500	1.3482	.7839	.0010
.7500	40.4155	6.3167	.0010	1.6500	2.1772	.9972	.0010
.8500	30.5709	5.0606	.0010	1.7500	3.7834	1.3485	.0010
.9500	15.0269	2.8930	.0010	1.8500	2.1254	1.0735	.0010
1.0500	12.9544	2.6236	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
HARVEY PRL 27 885 71	SPARK CHAMBERS	10.0 P/C	DSIG/DT VS -T PI- ,ET

DATA AT 3.7200 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0500	225.3896	34.8581	.0010	.6000	62.1772	11.2393	.0010
.1500	238.3430	35.2772	.0010	.8500	13.9906	4.0083	.0010
.2500	220.2083	32.3948	.0010	1.2500	6.7368	3.4017	.0010
.4000	155.4414	23.4053	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
GUISAN PL 18 200 65	SPARK CHAMBERS	10.0 P/C	DSIG/DT VS -T PI- ,ET

REACTION PI- P = N ET

DATA AT 4.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0100	212.4362	48.9434	.0010	.1300	290.1564	48.4940	.0010
.0300	409.3274	56.9453	.0010	.1500	274.6124	48.0491	.0010
.0500	401.5554	54.4390	.0010	.1700	243.5243	49.6469	.0010
.0700	370.4673	57.9332	.0010	.1900	196.8922	48.6243	.0010
.0900	373.0580	51.1926	.0010	.2100	178.7575	50.7871	.0010
.1100	279.7937	43.5111	.0010	.2300	191.7108	51.0177	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
HLADKY PL 318 475 70	SPARK CHAMBERS	NOT GIVEN	DSIG/DT VS -T PI- ,ET

DATA AT 5.9000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0500	93.0062	16.8515	.0010	.6000	26.9440	6.4980	.0010
.1500	165.8041	28.3852	.0010	.8500	10.1046	2.9371	.0010
.2500	119.1720	22.3399	.0010	1.2500	2.8507	1.3116	.0010
.4000	58.0321	11.1303	.0010	1.7500	.5191	.7790	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
GUISAN PL 18 200 65	SPARK CHAMBERS	10.0 P/C	DSIG/DT VS -T PI- ,ET

DATA AT 9.8000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0500	66.0632	7.9572	.0010	.4000	27.2031	4.3278	.0010
.1500	59.5865	7.7029	.0010	.6000	10.1046	3.4422	.0010
.2500	47.6694	6.3819	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
GUISAN PL 18 200 65	SPARK CHAMBERS	10.0 P/C	DSIG/DT VS -T PI- ,ET

DATA AT 10.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0600	46.3741	5.6814	.0010	.7000	9.8456	1.4680	.0010
.1800	53.3689	5.9743	.0010	1.0200	2.3585	.6193	.0010
.3000	47.1513	5.2981	.0010	1.4400	.5969	.3147	.0010
.4600	26.6849	2.9877	.0010	1.9800	.6228	.3149	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
MANNELLI PR 168 1515 68	COUNTERS	11.0 P/C	DSIG/DT VS -T PI- ,ET

DATA AT 13.3000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0500	49.4829	9.7065	.0010	.6000	4.1461	1.3284	.0010
.1500	48.1875	8.4724	.0010	.8500	1.9440	.5367	.0010
.2500	32.1254	6.1274	.0010	1.2500	.5191	.2626	.0010
.4000	13.9906	3.2602	.0010	1.7500	.2581 U	.0191	.0010

U=UPPER LIMIT

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
GUISAN PL 18 200 65	SPARK CHAMBERS	10.0 P/C	DSIG/DT VS -T PI- ,ET

REACTION PI- P = N ET

DATA AT 18.2000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0500	27.2331	5.0375	.0010	.6000	4.1461	1.0771	.0010
.1500	20.2383	4.6264	.0010	.8500	.5191	.5204	.0010
.2500	22.0217	4.9120	.0010	1.2500	.3378	.2611	.0010
.4000	12.9544	2.9913	.0010	1.7500	.2581 U	.0191	.0010

U=UPPER LIMIT

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
GUISAN	PL	18	200 65	SPARK CHAMBERS	20.0 P/C	DSIG/DT	VS	-T PI- ,ET


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DATA AT 2.7700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0500	5980.0010	92.0010	.0010	1.9500	25.0010	4.0010	.0010
.1500	2350.0010	64.0010	.0010	2.0500	39.0010	6.0010	.0010
.2500	940.0010	38.0010	.0010	2.1500	41.0010	6.0010	.0010
.3500	465.0010	25.0010	.0010	2.2500	33.0010	5.0010	.0010
.4500	292.0010	19.0010	.0010	2.3500	54.0010	7.0010	.0010
.5500	221.0010	17.0010	.0010	2.4500	57.0010	8.0010	.0010
.6500	155.0010	14.0010	.0010	2.5500	38.0010	6.0010	.0010
.7500	150.0010	14.0010	.0010	2.6500	42.0010	6.0010	.0010
.8500	173.0010	15.0010	.0010	2.7500	51.0010	7.0010	.0010
.9500	142.0010	13.0010	.0010	2.8500	54.0010	8.0010	.0010
1.0500	95.0010	11.0010	.0010	2.9500	56.0010	8.0010	.0010
1.1500	86.0010	9.0010	.0010	3.0500	70.0010	8.0010	.0010
1.2500	76.0010	9.0010	.0010	3.1500	66.0010	8.0010	.0010
1.3500	68.0010	7.0010	.0010	3.2500	50.0010	7.0010	.0010
1.4500	38.0010	5.0010	.0010	3.3500	62.0010	8.0010	.0010
1.5500	33.0010	5.0010	.0010	3.4500	70.0010	8.0010	.0010
1.6500	26.0010	4.0010	.0010	3.5500	68.0010	8.0010	.0010
1.7500	27.0010	4.0010	.0010	3.6500	90.0010	11.0010	.0010
1.8500	26.0010	4.0010	.0010	3.7500	167.0010	12.0010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BATON NP B21 551 70	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT VS -T PI-,RH0

DATA AT 16.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
* .0069	450.2010	109.2010	.0010	.1200	160.0010	100.0010	.0010
* .0100	600.0010	150.0010	.0010	.1254	99.3010	25.6410	.0010
* .0194	550.1010	121.3010	.0010	.2004	44.6010	12.1610	.0010
* .0300	350.0010	100.0010	.0010	.3004	13.2410	6.6210	.0010
* .0379	357.5010	68.8010	.0010	.4254	22.0710	6.9790	.0010
* .0500	230.0010	90.0010	.0010	.6004	6.6210	3.3110	.0010
* .0700	200.0010	80.0010	.0010	.9754	1.8060	1.0430	.0010
* .0754	215.1010	37.7410	.0010				

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
BARTSCH NP B46 46 72	BUBBLE CHAMBER	NOT GIVEN	DSIG/DTPR VS TPP PI-,RH0
* BALLAM PL 318 489 70	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT VS -T PI-,RH0

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DATA AT 1.1280 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
-.1490	700.5953	76.0345	.0010	.0824	320.6994	50.5090	.0010
-.1027	636.0365	67.6165	.0010	.1287	330.7467	50.5090	.0010
-.0564	432.8488	53.2244	.0010	.1750	421.9868	59.1985	.0010
-.0161	358.7161	54.8537	.0010	.2213	536.0371	67.6165	.0010
.0362	362.7893	54.8537	.0010	.2675	630.5358	71.6897	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BINFORD	BAPS 10 45 65	BUBBLE CHAMBER		NOT GIVEN	DSIG/DOM	VS COST PI- ,K+	

DATA AT 1.1700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
-.1549	689.3171	54.8829	.0010	.1313	285.3867	29.1981	.0010
-.0977	597.1156	43.9065	.0010	.1885	300.7536	30.7348	.0010
-.0465	489.5472	43.9065	.0010	.2458	263.4339	28.5396	.0010
.0168	368.8071	30.7348	.0010	.3030	329.2922	29.1981	.0010
.0740	254.6528	29.1981	.0010	.3602	461.0086	36.6621	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
DOYLE	UCRL 17703 67	BUBBLE CHAMBER		NOT GIVEN	DSIG/DOM	VS COST PI- ,K+	

DATA AT 1.2200 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
-.1049	582.3358	94.6402	.0010	.2403	245.6990	63.7005	.0010
.0677	454.9368	81.9003	.0010	.4130	254.7989	63.7005	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
CRAWFORD	PRL 3 394 59	BUBBLE CHAMBER		NOT GIVEN	DSIG/DOM	VS COST PI- ,S-	

DATA AT 1.2350 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
-.1565	668.7644	80.8634	.0010	.2056	210.3127	45.8115	.0010
-.0841	350.5205	61.9492	.0010	.2780	191.3985	45.8115	.0010
-.0116	474.5905	67.5020	.0010	.3504	213.8891	48.5879	.0010
.0608	402.9249	63.1639	.0010	.4229	178.0371	43.2086	.0010
.1332	249.7028	48.5879	.0010	.4953	307.4864	59.3464	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BINFORD	BAPS 10 45 65	BUBBLE CHAMBER		NOT GIVEN	DSIG/DOM	VS COST PI- ,K+	

DATA AT 1.2770 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
-.1548	531.4894	52.6877	.0010	.2531	141.2691	31.1200	.0010
-.0732	482.1919	54.9985	.0010	.3347	110.1501	26.3443	.0010
.0084	414.0398	52.6877	.0010	.4162	116.3122	26.3443	.0010
.0900	239.4019	38.3606	.0010	.4978	122.1663	28.6552	.0010
.1715	234.6262	38.3606	.0010	.5794	167.6124	34.5092	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BINFORD	BAPS 10 45 65	BUBBLE CHAMBER		NOT GIVEN	DSIG/DOM	VS COST PI- ,K+	

REACTION PI- P = S- K+

DATA AT 1.3250 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
-.1512	620.0623	89.5410	.0010	.3070	189.6394	48.9532	.0010
-.0596	459.3564	76.6517	.0010	.3986	127.7978	40.4517	.0010
.0320	409.1701	70.3441	.0010	.4903	92.4206	35.3782	.0010
.1237	248.4643	55.3979	.0010	.5819	146.9947	42.6456	.0010
.2153	150.0114	41.8229	.0010	.6736	236.5348	57.5918	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BINFORD	BAPS	10 45 65	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,K+	

DATA AT 1.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
-.1313	616.0300	67.5721	.0010	.5010	123.2188	30.8055	.0010
-.0049	402.4462	55.6478	.0010	.6274	54.6541	20.8685	.0010
.1216	269.2915	44.7171	.0010	.7539	47.6982	19.8748	.0010
.2481	158.9917	34.7802	.0010	.8804	7.9505	7.9505	.0010
.3113	167.9349	35.7739	.0010	1.0068	69.5594	24.8433	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
DAHL	PR	163 1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,K+	

DATA AT 1.5900 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
-.1191	520.1496	52.4530	.0010	.5997	145.9923	34.9690	.0010
.0247	397.7617	48.0820	.0010	.7434	87.4209	21.8560	.0010
.1684	297.2288	43.7110	.0010	.8872	27.9754	13.1140	.0010
.3122	179.2119	34.9690	.0010	1.0309	34.9690	17.4850	.0010
.4559	113.6469	26.2270	.0010	1.1746	21.8560	13.1140	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
GOUSSU	NC	42 606 66	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,K+	

DATA AT 1.6000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
-.1177	314.9093	33.6487	.0010	.6106	54.3550	13.8052	.0010
.0280	310.5955	32.7860	.0010	.7562	41.4136	12.0797	.0010
.1736	207.9268	27.6094	.0010	.9019	26.7466	10.3542	.0010
.3193	146.6706	23.2956	.0010	1.0475	3.4521	3.4521	.0010
.3921	115.6112	20.7073	.0010	1.1932	12.0797	6.9031	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
DAHL	PR	163 1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,K+	

DATA AT 1.7000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
-.1034	180.9519	24.4332	.0010	.7195	75.5881	16.0346	.0010
.0612	178.6614	24.4332	.0010	.8841	66.4260	15.2711	.0010
.2257	142.7766	22.1427	.0010	1.0487	22.1427	9.1631	.0010
.3903	119.1379	19.8522	.0010	1.2133	11.4536	6.8726	.0010
.4726	116.0539	20.6157	.0010	1.3779	15.2711	7.6361	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
DAHL	PR	163 1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,K+	

REACTION PI- P = S- K+

DATA AT 1.8600 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
-0.0002	92.3544	16.7925	.0010	1.0872	57.4797	13.5634	.0010
.1143	69.7504	14.8550	.0010	1.2818	23.8966	9.0426	.0010
.5035	40.0423	10.9801	.0010	1.4764	13.5634	6.4593	.0010
.6008	49.7298	12.2717	.0010	1.6710	10.9801	6.4593	.0010
.8926	59.4172	13.5634	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DAHL PR 163 1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM VS COST PI- ,K+

DATA AT 1.9500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
-0.0672	93.9445	8.3251	.0010	.9895	39.8378	5.3522	.0010
.1441	85.0258	7.7305	.0010	1.2009	31.5137	4.7576	.0010
.3555	66.5938	7.1359	.0010	1.4122	27.3516	4.7576	.0010
.5668	60.0535	6.5414	.0010	1.6236	7.1359	2.3793	.0010
.6725	39.2432	5.3522	.0010	1.8349	5.3522	2.3793	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DAHL PR 163 1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM VS COST PI- ,K+

DATA AT 2.0500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
-0.0528	67.2227	7.6522	.0010	1.0968	25.6873	4.9197	.0010
.1771	66.6762	7.6522	.0010	1.3268	20.7687	4.3731	.0010
.4070	53.0132	6.5592	.0010	1.5567	14.7570	3.8266	.0010
.6370	48.6411	6.5592	.0010	1.7866	8.1988	2.7336	.0010
.7519	37.7107	6.0127	.0010	2.0166	3.2881	1.6406	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DAHL PR 163 1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM VS COST PI- ,K+

DATA AT 2.2000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
-0.0316	79.9557	7.8015	.0010	1.2572	11.2142	2.9262	.0010
.2262	35.1131	5.3638	.0010	1.5149	17.0645	3.9012	.0010
.4839	38.5158	5.3638	.0010	1.7727	4.8763	1.9511	.0010
.7417	21.4523	3.9012	.0010	2.0305	.9761	.9761	.0010
.8766	14.6269	3.4137	.0010	2.2882	3.9012	1.9511	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DAHL PR 163 1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM VS COST PI- ,K+

DATA AT 2.3500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
-0.0108	74.8160	15.8442	.0010	1.4169	3.5217	3.5217	.0010
.2748	37.4185	11.4433	.0010	1.7025	10.5631	6.1622	.0010
.5603	13.6437	7.0424	.0010	1.9880	7.4825	5.2821	.0010
.8458	17.6145	7.9226	.0010	2.2735	3.5217	3.5217	.0010
.9886	7.0424	5.2821	.0010	2.5591	7.9226	5.2821	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DAHL PR 163 1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM VS COST PI- ,K+

REACTION PI- P = S- K+

DATA AT 2.6000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0229	34.4628	6.8176	.0010	1.6820	3.0306	2.2732	.0010
.3547	23.8591	5.6815	.0010	2.0139	1.5158	1.5158	.0010
.6866	14.3916	4.5454	.0010	2.3457	.0010	1.5158	.0010
1.0184	5.3328	2.6519	.0010	2.6775	1.5158	1.5158	.0010
1.1843	4.1667	2.2732	.0010	3.0094	.0010	1.5158	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
DAHL	PR	163 1430	67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS COST PI- ,K+

DATA AT 3.1500 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0931	17.9639	2.0291	.0010	2.2618	1.4496	.5804	.0010
.5269	9.8516	1.4496	.0010	2.6955	.0010	.2907	.0010
.9606	5.2160	1.1599	.0010	3.1293	.2907	.2907	.0010
1.3943	2.8982	.8702	.0010	3.5630	.0010	.2907	.0010
1.6112	.8702	.5804	.0010	3.9967	1.7393	.8702	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
DAHL	PR	163 1430	67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS COST PI- ,K+

DATA AT 4.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1938	5.5237	1.4879	.0010	3.1519	.4258	.4258	.0010
.7854	2.1251	.8506	.0010	3.7435	.0010	.4258	.0010
1.3770	1.2755	.6382	.0010	4.3351	.0010	.4258	.0010
1.9686	.0410	.4258	.0010	4.9267	.4258	.4258	.0010
2.2644	.0010	.4258	.0010	5.5183	.4258	.4258	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
DAHL	PR	163 1430	67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS COST PI- ,K+

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DATA AT .9120 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.2076	849.5646	180.4393	.2912	781.9003	165.4028
.2244	1135.2586	210.5123	.3079	744.3089	180.4393
.2411	887.1559	210.5123	.3246	714.2359	165.4028
.2578	1172.8499	210.5123	.3414	781.9003	180.4393
.2745	639.0533	180.4393	.3581	676.6446	180.4393

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
AUERBACH	NC	NOT GIVEN	VS COST PI-,L

DATA AT .9201 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.1964	1024.0562	128.3120	.2997	512.0286	128.3120
.2171	1087.9064	192.1634	.3204	512.0286	128.3120
.2377	678.6504	192.1634	.3411	640.3395	153.8525
.2584	640.3395	192.1634	.3617	640.3395	192.1634
.2791	640.3395	128.3120	.3824	256.0148	102.1633

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BERTANZA	PRL	NOT GIVEN	VS COST PI-,L

DATA AT .9380 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.1792	2645.2620	321.5995	.3179	1041.7990	208.3606
.2069	1612.5231	240.0675	.3457	1250.1586	240.0675
.2347	1612.5231	240.0675	.3734	960.2670	240.0675
.2624	1168.6266	240.0675	.4011	1118.8015	240.0675
.2902	1118.8015	240.0675	.4289	801.7325	240.0675

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
AUERBACH	NC	NOT GIVEN	VS COST PI-,L

DATA AT .9400 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.1884	2014.6411	600.8587	.3306	1696.5399	565.5141
.2346	1272.4051	494.8250	.3768	918.9594	424.1358
.2808	1131.0268	424.1358	.4230	353.4467	282.7576

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
STEINBERGER	PRL	NOT GIVEN	VS COST PI-,K0

DATA AT .9440 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR
		+			+
.1740	2145.1560	212.9144	.3239	958.7436	137.0245
.2046	1220.1422	158.1050	.3537	881.5089	129.8571
.2344	1357.1657	168.2237	.3835	932.1822	137.4461
.2642	1215.0829	155.9969	.4133	634.1834	154.7321
.2940	1030.8391	143.3486	.4431	484.8533	96.9715

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DOYLE	UCRL69	NOT GIVEN	VS COST PI-,K0

REACTION PI- P = L K0

DATA AT .9585 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1660	2153.5801	269.2440	.0010	.3380	1076.6075	153.8020	.0010
.2004	1768.8942	230.8851	.0010	.3724	961.5308	153.8020	.0010
.2348	1269.1327	192.1609	.0010	.4068	1115.3314	192.1609	.0010
.2692	1499.6515	230.8851	.0010	.4412	692.2873	153.8020	.0010
.3036	1422.9341	230.8851	.0010	.4756	361.3054	115.4431	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BERTANZA PRL 8 332 62	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH VS COST PI- ,L

DATA AT .9660 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1622	2501.4577	239.8200	.0010	.3453	1321.2358	173.6039	.0010
.1988	2047.8978	216.1469	.0010	.3819	1259.8229	166.0560	.0010
.2354	2175.1837	223.0087	.0010	.4186	1326.0391	170.1730	.0010
.2721	1482.4875	183.2104	.0010	.4552	905.0692	141.6967	.0010
.3087	1328.7838	171.8885	.0010	.4918	804.2011	132.7764	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DOYLE UCRL69 69	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH VS COST PI- ,KC

DATA AT .9673 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1617	2096.8693	211.0494	.0010	.3463	1048.4352	156.5853	.0010
.1986	1889.2249	211.0494	.0010	.3832	946.3149	156.5853	.0010
.2355	1385.4319	156.5853	.0010	.4201	946.3149	156.5853	.0010
.2724	1361.6138	156.5853	.0010	.4570	1102.8993	211.0494	.0010
.3094	1153.9594	156.5853	.0010	.4939	806.7507	211.0494	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
AUERBACH NC 47 19 67	SPARK CHAMBERS	NOT GIVEN	DSIG/DOH VS COST PI- ,L

DATA AT .9770 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1572	2194.8762	151.8081	.0010	.3559	980.4222	110.6937	.0010
.1970	1960.8433	151.8081	.0010	.3956	917.1692	101.2058	.0010
.2367	1486.4460	117.0190	.0010	.4354	885.5427	107.5311	.0010
.2764	1423.1930	117.0190	.0010	.4751	980.4222	123.3443	.0010
.3162	1075.3016	110.6937	.0010	.5148	790.6632	126.5070	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
AUERBACH NC 47 19 67	SPARK CHAMBERS	NOT GIVEN	DSIG/DOH VS COST PI- ,L

DATA AT .9860 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1537	2943.4100	230.3599	.0010	.3646	1586.2889	168.3746	.0010
.1959	2404.6144	208.6055	.0010	.4067	1340.1357	150.1962	.0010
.2380	1622.6457	168.9706	.0010	.4489	1127.3591	139.7660	.0010
.2802	1370.8303	155.8583	.0010	.4911	1132.1272	137.9780	.0010
.3224	1561.2564	165.0965	.0010	.5332	652.0390	105.4953	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DOYLE UCRL69 69	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH VS COST PI- ,KC

REACTION PI- P = L K0

DATA AT .9910 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1519	3436.2416	332.0373	.0010	.3693	1489.1073	209.5104	.0010
.1954	3051.9002	325.1018	.0010	.4128	1591.6812	225.4042	.0010
.2389	2353.7310	266.4392	.0010	.4563	1227.8707	191.8827	.0010
.2824	1591.4157	215.0010	.0010	.4998	1204.7524	184.3693	.0010
.3259	1411.3721	201.9970	.0010	.5433	932.8236	162.9849	.0010

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
DOYLE	UCRL69	69	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,K0

DATA AT 1.0009 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1486	2450.0317	229.8791	.0010	.3788	1120.7250	172.5461	.0010
.1947	1639.0870	201.2126	.0010	.4248	977.1194	143.6066	.0010
.2407	1609.4211	172.5461	.0010	.4708	689.6352	143.6066	.0010
.2867	1264.3303	172.5461	.0010	.5169	689.6352	143.6066	.0010
.3328	1293.2793	172.5461	.0010	.5629	373.4847	114.9401	.0010

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
BERTANZA	PRL	8 332 62	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,L

DATA AT 1.0060 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1471	3403.7772	539.1868	.0010	.3837	1049.6868	291.6394	.0010
.1944	2324.8846	498.8142	.0010	.4310	1657.1340	374.2437	.0010
.2417	1992.3296	398.6797	.0010	.4783	1481.8322	341.0426	.0010
.2890	2198.4447	424.9750	.0010	.5256	781.6876	248.8764	.0010
.3363	1495.3783	343.9643	.0010	.5729	523.2502	198.1451	.0010

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
DOYLE	UCRL69	69	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,K0

DATA AT 1.0120 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1454	2920.3517	272.9791	.0010	.3894	906.4943	139.0653	.0010
.1942	2013.8583	249.8017	.0010	.4382	870.4406	110.7374	.0010
.2430	1431.8484	218.8985	.0010	.4870	816.3600	110.7374	.0010
.2918	1488.5042	218.8985	.0010	.5358	762.2795	110.7374	.0010
.3406	1179.4724	139.0653	.0010	.5846	726.2258	110.7374	.0010

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
AUERBACH	NC	47 19 67	SPARK CHAMBERS	NOT GIVEN	DSIG/DOM	VS COST PI- ,L

DATA AT 1.0160 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1443	1921.2994	267.8719	.0010	.3932	1201.7593	217.3779	.0010
.1941	1964.2194	267.8719	.0010	.4430	1161.3641	217.3779	.0010
.2439	1582.9393	284.0300	.0010	.4927	951.8138	207.2791	.0010
.2936	1666.3345	258.5305	.0010	.5425	843.2516	207.2791	.0010
.3434	1161.3641	223.9421	.0010	.5923	424.1510	150.4733	.0010

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
WOLF	RMP	33 439 61	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,K0

REACTION PI- P = L K0

DATA AT 1.0200 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1306	2944.6122	148.5937	.0010	.3843	1272.6979	123.8283	.0010
.1560	2670.2117	200.6012	.0010	.4097	1221.1857	148.5937	.0010
.1813	2220.9660	200.6012	.0010	.4350	1183.7897	148.5937	.0010
.2067	1635.7593	148.5937	.0010	.4604	1122.8669	148.5937	.0010
.2321	1522.3335	148.5937	.0010	.4858	748.6608	123.8283	.0010
.2574	1472.3370	148.5937	.0010	.5111	823.4520	123.8283	.0010
.2828	1222.4238	148.5937	.0010	.5365	883.3844	123.8283	.0010
.3082	1255.6097	148.5937	.0010	.5619	563.9102	99.0628	.0010
.3336	1322.4762	148.5937	.0010	.5873	499.0247	99.0628	.0010
.3589	1322.4762	148.5937	.0010	.6126	449.2459	99.0628	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
KEREN PR 133 457 64	BUBBLE CHAMBER	NOT GIVEN	VS COST PI- ,K0

DATA AT 1.0300 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1276	3170.9572	132.4692	.0010	.3932	1209.2468	78.5357	.0010
* .1409	3098.8117	249.0886	.0010	* .4065	913.0857	147.3719	.0010
.1541	2429.8471	114.4914	.0010	.4198	1060.4566	72.8585	.0010
+ .1608	5490.3355	974.8251	.0010	+ .4264	2016.8291	522.7772	.0010
.1807	2280.1083	110.4701	.0010	.4463	1097.1219	74.9875	.0010
* .1940	2133.6836	203.6709	.0010	* .4596	901.2582	135.3079	.0010
.2073	1991.0460	102.9004	.0010	.4729	1144.9051	75.9337	.0010
.2338	1700.7363	97.6963	.0010	* .4994	901.4947	66.7082	.0010
* .2471	1696.0676	186.1662	.0010	* .5127	678.9008	122.2976	.0010
+ .2471	2651.7302	597.5272	.0010	+ .5127	971.0403	373.5141	.0010
.2604	1546.0923	88.7074	.0010	.5260	797.6491	63.6331	.0010
.2870	1457.8613	86.3419	.0010	* .5526	886.5920	67.4179	.0010
* .3002	1381.4556	153.0491	.0010	* .5659	702.5558	111.4163	.0010
.3135	1367.0260	83.2668	.0010	.5791	675.5890	57.9559	.0010
+ .3334	1120.5404	373.5141	.0010	+ .5991	1045.7902	410.8891	.0010
.3401	1280.2120	80.9012	.0010	* .6057	646.0202	55.8269	.0010
* .3534	1286.8354	158.0167	.0010	* .6190	409.2333	111.4163	.0010
.3666	1379.3266	83.2668	.0010	.6323	457.9626	49.6766	.0010

REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
DOYLE UCRL69 69	BUBBLE CHAMBER	NOT GIVEN	VS COST PI- ,K0
* WOLF RMP 33 439 61	BUBBLE CHAMBER	NOT GIVEN	VS COST PI- ,K0
+ STEINBERGER PRL 3 394 59	BUBBLE CHAMBER	NOT GIVEN	VS COST PI- ,K0

DATA AT 1.0330 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1402	3004.5390	201.4708	.0010	.4093	1059.8769	138.4385	.0010
.1940	2157.1029	167.1532	.0010	.4632	1029.5280	153.3795	.0010
.2478	1433.4014	140.0727	.0010	.5170	716.7012	123.4975	.0010
.3017	1120.5746	138.4385	.0010	* .5708	656.0035	119.9958	.0010
.3555	1029.5280	138.4385	.0010	.6246	373.5255	108.0897	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
EISLER AIX61 61	BUBBLE CHAMBER	NOT GIVEN	VS COST PI- ,K0

DATA AT 1.0350 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1262	3025.4152	124.5170	.0010	.3977	1135.4571	73.3682	.0010
.1533	2417.4162	124.5170	.0010	* .4248	1025.5220	73.3682	.0010
.1805	2197.7774	124.5170	.0010	.4520	1032.9281	73.3682	.0010
.2076	2087.8423	109.9361	.0010	* .4791	1157.4441	73.3682	.0010
.2348	1684.9012	109.9361	.0010	.5062	893.8313	73.3682	.0010
.2619	1443.0440	95.1238	.0010	* .5334	805.8832	73.3682	.0010
.2891	1560.3829	73.3682	.0010	.5605	879.0190	73.3682	.0010
.3162	1281.9601	73.3682	.0010	* .5877	586.0130	51.3812	.0010
.3434	1391.8952	73.3682	.0010	.6148	512.8772	43.9750	.0010
.3705	1245.3922	73.3682	.0010	.6420	329.5749	43.9750	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CRAWFORD CERN62 62	BUBBLE CHAMBER	NOT GIVEN	VS COST PI- ,K0

REACTION PI- P = L K0

DATA AT 1.0370 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1393	2891.3697	307.4958	.0010	.4131	984.4432	208.8221	.0010
.1941	2030.8433	282.2537	.0010	.4679	936.2537	185.8747	.0010
.2488	1477.8394	227.1800	.0010	.5227	885.7695	220.2958	.0010
.3036	1266.6959	220.2958	.0010	.5774	984.4432	227.1800	.0010
.3584	1108.3590	220.2958	.0010	.6322	676.9484	220.2958	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
AUERBACH	SPARK CHAMBERS	NOT GIVEN	VS COST PI- ,L

DATA AT 1.1290 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1262	1949.9886	121.9383	.0010	.5003	591.2122	66.5123	.0010
.2010	1333.5337	99.2640	.0010	.5751	527.3883	61.8094	.0010
.2759	945.6330	85.4915	.0010	.6500	419.8953	55.7630	.0010
.3507	814.5960	77.7654	.0010	.7248	404.7791	57.1066	.0010
.4255	586.1735	66.8482	.0010	.7996	339.2756	52.2359	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BINFORD	BUBBLE CHAMBER	NOT GIVEN	VS COST PI- ,KE

DATA AT 1.1700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1024	1887.0559	122.3311	.0010	.5184	606.3656	65.2437	.0010
.1440	1458.9306	106.6245	.0010	.5600	498.3828	60.5619	.0010
.1856	1222.0937	97.8651	.0010	.6016	470.2922	58.4476	.0010
.2272	960.8208	84.2728	.0010	.6432	347.0560	48.1779	.0010
.2688	787.2933	74.9093	.0010	.6849	400.6698	51.9535	.0010
.3104	612.6654	76.2685	.0010	.7265	388.1347	51.8025	.0010
.3520	651.5220	69.4724	.0010	.7681	275.0172	43.0431	.0010
.3936	730.1520	70.3786	.0010	.8097	304.1649	44.8554	.0010
.4352	498.5339	59.0517	.0010	.8513	351.5867	51.0474	.0010
.4768	624.0355	68.1132	.0010	.8929	289.9686	43.3451	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DOYLE	BUBBLE CHAMBER	NOT GIVEN	VS COST PI- ,KE

DATA AT 1.2350 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1205	1244.5505	152.9552	.0010	.6011	326.8263	74.6479	.0010
.2166	691.5634	107.4612	.0010	.6972	444.4834	86.5443	.0010
.3127	786.9964	120.2727	.0010	.7934	167.3356	53.4696	.0010
.4089	551.6821	99.3559	.0010	.8895	158.8381	51.2472	.0010
.5050	471.9368	91.7735	.0010	.9856	195.7040	71.9026	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BINFORD	BUBBLE CHAMBER	NOT GIVEN	VS COST PI- ,KE

DATA AT 1.2770 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1197	942.1865	106.0270	.0010	.6412	259.0418	55.4237	.0010
.2240	781.9427	97.4726	.0010	.7455	330.1274	62.8937	.0010
.3283	454.2260	69.1589	.0010	.8498	251.8127	57.4719	.0010
.4326	612.0601	82.8941	.0010	.9541	140.9674	40.7246	.0010
.5369	336.1516	66.5082	.0010	1.0584	176.1487	47.3512	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BINFORD	BUBBLE CHAMBER	NOT GIVEN	VS COST PI- ,KE

REACTION PI- P = L K0

DATA AT 1.3260 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1196	872.9971	131.2819	.0010	.6882	249.7442	68.5146	.0010
.2333	647.5652	112.1644	.0010	.8019	173.4952	53.8173	.0010
.3470	352.5146	75.5870	.0010	.9156	183.4407	59.6742	.0010
.4607	259.6897	76.5815	.0010	1.0293	94.8150	42.4352	.0010
.5745	236.4835	64.9784	.0010	1.1430	165.7598	55.2539	.0010

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BINFORD	BAPS 10 45 65		BUBBLE CHAMBER	NOT GIVEN	DSIG/DOOM VS COST PI- ,K0

DATA AT 1.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0684	656.8855	150.9301	.0010	.9293	47.1663	19.7247	.0010
.1051	945.0228	178.3717	.0010	1.0026	39.4484	18.0096	.0010
.1600	651.7402	102.9072	.0010	1.1491	40.3059	18.0096	.0010
.2699	323.2979	51.4541	.0010	1.2957	73.7504	24.8700	.0010
.4165	325.0130	51.4541	.0010	1.4056	221.2493	61.7447	.0010
.5630	246.9759	44.5937	.0010	1.4789	356.7425	82.3260	.0010
.7095	176.6566	37.7333	.0010				

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DAHL	PR 163 1430 67		BUBBLE CHAMBER	NOT GIVEN	DSIG/DOOM VS COST PI- ,K0

DATA AT 1.5080 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0867	387.9464	60.9517	.0010	.6788	134.1265	27.4203	.0010
.1607	419.3555	60.9517	.0010	.7528	91.6817	24.1945	.0010
.2347	326.8257	48.8125	.0010	.8268	81.0706	22.3270	.0010
.3087	228.3539	38.6258	.0010	.9008	79.1181	20.2896	.0010
.3827	213.9227	32.4288	.0010	.9749	63.0740	20.2896	.0010
.4567	180.8157	30.3915	.0010	1.0489	82.3439	30.3915	.0010
.5308	197.7936	30.3915	.0010	1.1229	59.2539	35.4848	.0010
.6048	149.4966	28.4390	.0010				

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
YODER	PR 132 1778 63		SPARK CHAMBERS	NOT GIVEN	DSIG/DOOM VS COST PI- ,K0

DATA AT 1.5900 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1271	484.3345	87.2643	.0010	.9436	72.1048	34.1676	.0010
.2904	220.1599	56.9453	.0010	1.1069	44.0174	26.5493	.0010
.4537	189.7640	56.9453	.0010	1.2702	41.7858	26.5493	.0010
.6170	130.5881	41.7858	.0010	1.4335	115.3517	37.9382	.0010
.7803	100.9617	37.9382	.0010	1.5968	254.3265	75.8754	.0010

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
GOUSSU	NC 42 606 66		BUBBLE CHAMBER	NOT GIVEN	DSIG/DOOM VS COST PI- ,K0

DATA AT 1.6000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0656	542.4962	94.3480	.0010	1.0359	85.9785	18.2617	.0010
.1069	429.1277	82.9351	.0010	1.1185	38.8441	12.1748	.0010
.1688	310.4331	49.4571	.0010	1.2837	8.3705	6.0879	.0010
.2927	159.0213	24.3486	.0010	1.4488	49.4571	13.6965	.0010
.4579	105.0001	19.7834	.0010	1.5727	174.9995	38.8050	.0010
.6230	108.0435	20.5443	.0010	1.6553	292.9332	50.2180	.0010
.7882	75.3264	16.7400	.0010				

	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DAHL	PR 163 1430 67		BUBBLE CHAMBER	NOT GIVEN	DSIG/DOOM VS COST PI- ,K0

REACTION PI- P = L K0

DATA AT 1.7000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0637	456.9732	93.0373	.0010	1.1430	39.6782	12.9987	.0010
.1097	448.0800	91.6691	.0010	1.2348	17.1033	8.8942	.0010
.1786	207.9644	43.0987	.0010	1.4185	8.8942	6.1578	.0010
.3163	168.9713	27.3646	.0010	1.6022	44.4669	13.6828	.0010
.5000	112.8759	21.8919	.0010	1.7400	194.2826	42.4146	.0010
.6837	64.9896	17.1033	.0010	1.8318	286.6348	53.3600	.0010
.8674	56.0964	15.7351	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DAHL PR 163 1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM VS COST PI- ,K0

DATA AT 1.8600 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0622	509.7084	87.2111	.0010	.9952	40.6597	11.7861	.0010
.1155	434.2835	79.5507	.0010	1.3151	27.6961	10.0184	.0010
.1955	205.0625	38.3027	.0010	1.4217	24.1505	8.8399	.0010
.1955	205.0625	38.3027	.0010	1.6350	10.6076	5.8936	.0010
.3554	125.5128	21.2143	.0010	1.8482	52.4449	13.5539	.0010
.5687	81.3185	16.5002	.0010	2.0082	100.7640	27.1068	.0010
.7819	37.1242	11.1969	.0010	2.1148	113.1384	29.4639	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DAHL PR 163 1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM VS COST PI- ,K0

DATA AT 1.9500 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0619	647.2810	49.7497	.0010	1.4123	11.4815	3.2811	.0010
.1193	372.8430	37.1759	.0010	1.5272	9.2947	2.7344	.0010
.2055	205.0394	19.1351	.0010	1.7571	16.4817	3.8278	.0010
.3779	101.6852	9.2947	.0010	1.9870	42.6428	6.0146	.0010
.6078	64.5103	7.6546	.0010	2.1594	86.9246	12.5749	.0010
.8376	51.3898	6.5613	.0010	2.2743	158.5409	17.4951	.0010
1.0675	20.7752	4.3745	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DAHL PR 163 1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM VS COST PI- ,K0

DATA AT 2.0500 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0619	621.9771	53.6458	.0010	1.5207	12.6531	3.5436	.0010
.1239	355.7774	39.9816	.0010	1.6448	10.6287	3.5436	.0010
.2170	153.8502	18.2200	.0010	1.8931	9.6166	3.0375	.0010
.4033	96.1568	10.1227	.0010	2.1414	34.4146	6.0740	.0010
.6516	70.8526	8.6044	.0010	2.3277	72.8770	12.6531	.0010
.8999	52.6336	7.5922	.0010	2.4518	116.9062	16.1957	.0010
1.1482	26.3173	5.0618	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
DAHL PR 163 1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM VS COST PI- ,K0

DATA AT 2.2000 GEV/C FOLLOW

-T	DSIG/DT	ERROR	-T	DSIG/DT	ERROR		
		+			+		
.0624	658.4363	53.2769	.0010	1.2698	7.7419	2.7331	.0010
.1314	417.1011	41.4378	.0010	1.6837	9.5633	3.1884	.0010
.2349	173.4891	18.6703	.0010	1.8217	5.9205	2.2777	.0010
.4419	86.9727	9.1080	.0010	2.0977	11.3847	3.6438	.0010
.7178	54.1876	7.2866	.0010	2.3737	23.6792	5.0098	.0010
.7178	54.1876	7.2866	.0010	2.5806	51.4555	10.4740	.0010
.9938	27.7773	5.4652	.0010	2.7186	58.2857	11.3847	.0010

REACTION PI- P = L K0

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
DAHL	PR	163 1430	67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST	PI- ,K0
DATA AT 2.3500 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0634	697.3280	110.0835	.0010	1.8474	12.0025	7.0363	.0010	
.1394	350.1129	76.5621	.0010	1.9992	4.1394	4.1394	.0010	
.2532	154.7786	35.5916	.0010	2.3029	12.0025	7.0363	.0010	
.4810	76.9760	17.7963	.0010	2.6065	12.8302	7.4502	.0010	
.7846	35.5916	12.0025	.0010	2.8343	24.4178	14.0717	.0010	
1.0883	31.8670	11.1748	.0010	2.9861	51.3176	21.1070	.0010	
1.3919	13.2440	7.8640	.0010					

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
DAHL	PR	163 1430	67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST	PI- ,K0
DATA AT 2.6000 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0660	382.2096	52.0877	.0010	2.1212	3.2340	2.1563	.0010	
.1535	181.4064	34.8452	.0010	2.2961	3.2340	2.5155	.0010	
.2847	105.9705	18.6804	.0010	2.6460	.0010	1.7971	.0010	
.5470	40.2335	7.9038	.0010	2.9958	5.8301	2.8747	.0010	
.8968	31.2530	7.1854	.0010	3.2582	.0010	3.2340	.0010	
1.2467	15.8066	5.0301	.0010	3.4331	24.0686	8.9815	.0010	
1.5965	.0010	1.7971	.0010					

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
DAHL	PR	163 1430	67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST	PI- ,K0
DATA AT 3.1500 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0739	331.1071	21.7038	.0010	2.7273	3.6181	1.1140	.0010	
.1868	138.2865	13.6348	.0010	2.9531	2.2269	.8357	.0010	
.3562	39.7894	5.0093	.0010	3.4047	.8357	.5575	.0010	
.6949	22.5385	2.7834	.0010	3.8564	.0010	.2792	.0010	
1.1466	13.9130	2.2269	.0010	4.1951	3.3399	1.3922	.0010	
1.5982	5.8440	1.3922	.0010	4.4209	9.7394	2.5052	.0010	
2.0498	2.5052	.8357	.0010					

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
DAHL	PR	163 1430	67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST	PI- ,K0
DATA AT 3.9300 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0315	329.0010	32.0010	.0010	.5750	10.5010	4.7010	.0010	
.0750	242.0010	23.0010	.0010	.6250	11.2010	5.0010	.0010	
.1250	125.0010	17.0010	.0010	.6750	17.0010	6.0010	.0010	
.1750	90.9010	14.0010	.0010	.7500	7.4010	2.8010	.0010	
.2250	82.2010	13.3010	.0010	.8500	16.8010	4.3010	.0010	
.2750	48.2010	10.1010	.0010	.9500	10.2010	3.4010	.0010	
.3250	16.7010	5.9010	.0010	1.1000	3.1010	1.2010	.0010	
.3750	31.1010	8.3010	.0010	1.3000	4.7010	1.7010	.0010	
.4250	31.3010	8.1010	.0010	1.5000	2.6010	1.2010	.0010	
.4750	11.0010	4.9010	.0010	1.7000	2.8010	1.3010	.0010	
.5250	10.5010	4.7010	.0010					

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
ABRAMOVICH	NP	827 477	71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS -T	PI- ,K0

REACTION PI- P = L K0

DATA AT 4.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		*	-T	DSIG/DT	ERROR	
		+	-				+	-
.0893	253.5916	25.3601	.0010	*	5.3084	.0606	.0108	.0010
.2416	46.8019	10.7219	.0010	*	5.6084	.4300	.0370	.0010
.4702	20.8243	5.1553	.0010	*	5.6511	2.4751	1.8565	.0010
.9273	7.4232	2.2689	.0010	*	5.7584	1.1450	.0830	.0010
1.5369	.0010	.6195	.0010	*	5.8284	2.1710	.1810	.0010
2.1464	.8257	.8257	.0010	*	5.8684	2.5210	.1910	.0010
2.7559	.0010	.6195	.0010	*	5.9084	3.7010	.2410	.0010
3.6741	.0010	.6195	.0010	*	5.9484	4.5610	.2710	.0010
3.9749	.0010	.6195	.0010	*	5.9558	6.3923	2.8874	.0010
* 4.5084	.0242	.0080	.0010	*	5.9884	5.2810	.2810	.0010
* 4.5844	.0010	.6195	.0010	*	6.0284	6.6210	.3110	.0010
* 4.9084	.0310	.0085	.0010	*	6.0684	8.1610	.3510	.0010
5.1939	.6195	.6195	.0010	*	6.0984	8.3810	.5110	.0010

	REFERENCES	TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES
DAHL	PR 163 1430 67	BUBBLE CHAMBER	NOT GIVEN	VS COST PI- ,K0
* PEPIN	PL 268 35 67	SPARK CHAMBERS	NOT GIVEN	VS -T PI- ,L

DATA AT 4.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		*	-T	DSIG/DT	ERROR	
		+	-				+	-
.0214	298.0010	30.0010	.0010	*	.4014	14.0010	6.0010	.0010
.0290	261.1294	21.4636	.0010	*	.4314	17.0010	5.0010	.0010
.0414	229.0010	26.0010	.0010	*	.4714	17.0010	5.0010	.0010
.0614	235.0010	26.0010	.0010	*	.5114	20.0010	6.0010	.0010
.0641	225.3584	19.6751	.0010	*	.5383	16.6345	1.7896	.0010
.0814	218.0010	25.0010	.0010	*	.5514	20.0010	6.0010	.0010
.0992	178.8561	19.6751	.0010	*	.5914	11.0010	4.0010	.0010
.1014	152.0010	21.0010	.0010	*	.6314	11.0010	4.0010	.0010
.1214	170.0010	22.0010	.0010	*	.6714	18.0010	5.0010	.0010
.1414	114.0010	18.0010	.0010	*	.7114	17.0010	5.0010	.0010
.1519	130.5652	10.7323	.0010	*	.7514	7.0010	3.0010	.0010
.1614	134.0010	20.0010	.0010	*	.7914	13.0010	4.0010	.0010
.1814	83.0010	15.0010	.0010	*	.8896	8.7649	1.2530	.0010
.2014	114.0010	18.0010	.0010	*	.9114	6.0010	1.3010	.0010
.2214	49.0010	11.0010	.0010	*	1.1114	5.3010	1.2010	.0010
.2414	57.0010	13.0010	.0010	*	1.3114	3.4010	.9010	.0010
.2614	50.0010	12.0010	.0010	*	1.4166	3.2204	.5376	.0010
.2749	50.0804	3.5781	.0010	*	1.7114	1.7010	.4010	.0010
.2814	47.0010	12.0010	.0010	*	1.7679	.2693	.0904	.0010
.3014	30.0010	9.0010	.0010	*	5.0174	.1262	.0547	.0010
.3214	40.0010	11.0010	.0010	*	6.5983	1.0741	.7164	.0010
.3414	37.0010	10.0010	.0010	*	6.7739	1.0741	.7164	.0010
.3614	27.0010	9.0010	.0010	*	6.9496	3.3992	1.0741	.0010
.3814	27.0010	9.0010	.0010	*				

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CRENNEL	PR 6 1220 72	BUBBLE CHAMBER	10.0 P/C	DSIG/DTPR VS TPR PI- ,K0

DATA AT 5.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		*	-T	DSIG/DT	ERROR	
		+	-				+	-
7.4180	.1510	.1110	.0010	*	7.7180	1.5210	.3610	.0010
7.5180	.3910	.1710	.0010	*	7.8180	2.3510	.4310	.0010
7.6180	.9210	.2710	.0010	*	7.9180	3.1210	.5410	.0010

	REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
PEPIN	PL 268 35 67	SPARK CHAMBERS	NOT GIVEN	DSIG/DT VS -T PI- ,L

DATA AT 6.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		*	-T	DSIG/DT	ERROR	
		+	-				+	-
.0182	188.0010	33.0010	.0010	*	.3767	23.0236	3.1986	.0010
.0382	205.0010	35.0010	.0010	*	.3882	12.0010	5.5010	.0010
.0782	177.0010	32.0010	.0010	*	.5082	6.5010	1.9010	.0010
.1082	115.0010	18.0010	.0010	*	.7082	2.9010	1.3010	.0010
.1310	112.5559	7.6752	.0010	*	.7451	3.5823	.8963	.0010
.1482	68.0010	14.0010	.0010	*	.9082	3.6010	1.5010	.0010
.1882	82.0010	16.0010	.0010	*	1.2082	2.9010	1.0010	.0010
.2282	74.0010	15.0010	.0010	*	1.2363	2.8149	.8963	.0010
.2682	48.0010	12.0010	.0010	*	1.4820	.1033	.0650	.0010
.3082	41.0010	11.0010	.0010	*	1.7082	.6010	.4810	.0010
.3282	171.0010	32.0010	.0010	*	7.1313	.0266	.0266	.0010
.3482	29.0010	9.0010	.0010	*	9.5875	1.0242	.5126	.0010

REACTION PI- P = L K0

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR	MEASURED VARIABLES		
GRENNEL	PR	6	1220 72	BUBBLE CHAMBER	15.0 P/C	DSIG/DTPR	VS TPR PI- ,KC
DATA AT 6.2000 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
8.6081	.0384	.0040	.0010	10.0081	.9390	.0950	.0010
9.0081	.0212	.0058	.0010	10.0481	1.0210	.1010	.0010
9.4081	.0336	.0069	.0010	10.0881	1.0510	.1010	.0010
9.7081	.1420	.0180	.0010	10.1281	1.7210	.1410	.0010
9.8581	.3570	.0390	.0010	10.1681	1.9210	.1510	.0010
9.9281	.5560	.0760	.0010	10.1981	1.8910	.2010	.0010
9.9681	.8280	.0930	.0010				

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR	MEASURED VARIABLES		
PEPIN	PL	26B	35 67	SPARK CHAMBERS	NOT GIVEN	DSIG/DT	VS -T PI- ,L
DATA AT 7.0000 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
11.1510	.0390	.0390	.0010	11.4510	.6160	.1650	.0010
11.2510	.1950	.1170	.0010	11.5510	.6160	.1650	.0010
11.3510	.2710	.1170	.0010	11.6510	1.4810	.2710	.0010

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR	MEASURED VARIABLES		
PEPIN	PL	26B	35 67	SPARK CHAMBERS	NOT GIVEN	DSIG/DT	VS -T PI- ,L
DATA AT 7.9100 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0220	188.0009	39.0010	.0010	.2340	18.0010	7.0010	.0010
.0580	136.0010	35.0010	.0010	.3120	25.0010	13.0010	.0010
.0970	106.0009	33.0010	.0010	.3900	14.0010	9.0010	.0010
.1360	49.0010	20.0010	.0010	1.1690	2.3010	.6010	.0010
.1950	29.0010	13.0010	.0010				

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR	MEASURED VARIABLES		
EMPLICH	PR	152	1194 66	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS -T PI- ,KC
DATA AT 8.0000 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0310	131.0010	3.1010	.0010	.3560	10.3010	1.4010	.0010
.0810	90.5010	3.1010	.0010	.4560	7.2010	1.4010	.0010
.1310	70.2010	3.3010	.0010	.5560	4.9010	1.4010	.0010
.1810	46.9010	2.8010	.0010	.7060	.9110	.4310	.0010
.2310	30.9010	3.1010	.0010	.9060	.1810	.5110	.0010
.2810	23.1110	2.8010	.0010				

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR	MEASURED VARIABLES		
FOLEY	BNL-17744		73	SPARK CHAMBERS	10.0 P/C	DSIG/DT	VS TPR PI- ,KC
DATA AT 10.7000 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0294	97.8010	2.2010	.0010	.3544	9.1610	.8810	.0010
.0794	64.7010	1.8010	.0010	.4544	4.9410	.7810	.0010
.1294	41.8010	1.7010	.0010	.5544	3.5110	.7810	.0010
.1794	29.5010	1.6010	.0010	.7044	1.6610	.4210	.0010
.2294	17.8010	1.3010	.0010	.9044	1.5710	.4010	.0010
.2794	14.8010	1.4010	.0010				

REFERENCE		TECHNIQUE		SYSTEMATIC ERROR	MEASURED VARIABLES		
FOLEY	BNL-17744		73	SPARK CHAMBERS	10.0 P/C	DSIG/DT	VS TPR PI- ,KC

REACTION PI- P = L K0

DATA AT 12.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
20.5614	.0570	.0330	.0010	20.9614	.1390	.0530	.0010
20.7614	.0750	.0380	.0010				
	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
PEPIN	PL	268	35 67	SPARK CHAMBERS	NOT GIVEN	DSIG/DT	VS -T PI- ,L


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DATA AT 1.1290 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1873	933.4448	133.3501	.0010	.4229	400.0484	85.3444	.0010
.2344	480.0578	80.0105	.0010	.4700	346.7087	89.0105	.0010
.2815	426.7182	80.0105	.0010	.5171	741.4221	106.6803	.0010
.3286	346.7087	80.0105	.0010	.5642	648.0777	106.6803	.0010
.3757	346.7087	80.0105	.0010	.6113	960.1146	138.6841	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BINFORD	BAPS 10 45 65	BUBBLE CHAMBER		NOT GIVEN		DSIG/DOM VS COST PI- ,KE	

DATA AT 1.1700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1735	641.7555	121.8257	.0010	.4623	254.5275	50.0361	.0010
.2312	556.9135	82.6677	.0010	.5200	263.2293	50.0361	.0010
.2890	374.1763	58.7379	.0010	.5778	330.6679	54.3870	.0010
.3467	348.0715	56.5624	.0010	.6356	406.8083	56.5624	.0010
.4045	382.8783	56.5624	.0010	.6933	630.8783	67.4397	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
ANDERSON	PR 152 1139 67	BUBBLE CHAMBER		NOT GIVEN		DSIG/DOM VS COST PI- ,SC	

DATA AT 1.2200 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2145	740.8439	153.5905	.0010	.5622	415.5957	135.5211	.0010
.3883	487.8731	135.5211	.0010	.7361	578.2198	153.5905	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
CRAWFORD	PRL 3 394 59	BUBBLE CHAMBER		NOT GIVEN		DSIG/DOM VS COST PI- ,SC	

DATA AT 1.2350 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1598	539.4477	141.3257	.0010	.5243	243.0105	98.2389	.0010
.2327	146.4361	67.2164	.0010	.5973	503.2548	117.1971	.0010
.3056	210.2646	110.3032	.0010	.6702	344.6954	136.1553	.0010
.3785	239.5636	105.1328	.0010	.7431	758.3286	172.3482	.0010
.4514	270.5961	103.4093	.0010	.8160	448.1037	120.6440	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BINFORD	BAPS 10 45 65	BUBBLE CHAMBER		NOT GIVEN		DSIG/DOM VS COST PI- ,KE	

DATA AT 1.2770 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1541	643.1840	107.1982	.0010	.5644	222.0523	70.4448	.0010
.2362	245.0231	81.1646	.0010	.6464	214.3953	70.4448	.0010
.3182	188.3617	61.2565	.0010	.7285	353.7516	81.1646	.0010
.4003	173.0478	65.8507	.0010	.8106	280.2450	87.2901	.0010
.4823	156.2026	53.5996	.0010	.8926	390.5049	87.2901	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BINFORD	BAPS 10 45 65	BUBBLE CHAMBER		NOT GIVEN		DSIG/DOM VS COST PI- ,KE	

REACTION PI- P = S0 K0

DATA AT 1.3260 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1495	469.5267	126.5688	.0010	.6111	136.0954	81.6576	.0010
.2418	224.5568	88.4624	.0010	.7035	314.3791	136.0954	.0010
.3341	204.1426	97.9890	.0010	.7958	201.4207	68.0482	.0010
.4265	.0010	62.6044	.0010	.8882	265.3851	97.9890	.0010
.5188	251.7756	95.2671	.0010	.9805	163.3143	72.1310	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
BINFORD	BAPS	10	45 65	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,K0

DATA AT 1.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0956	522.6352	236.5722	.0010	.6510	32.6656	32.6656	.0010
.1273	305.8608	179.1616	.0010	* .7780	30.6860	9.8994	.0010
* .1432	178.1716	19.7978	.0010	* .8415	68.2998	39.5945	.0010
* .1749	90.0762	64.3404	.0010	* .9049	18.8079	7.9197	.0010
* .2702	89.0864	44.5437	.0010	* .9049	47.5132	33.6555	.0010
* .2702	93.0457	14.8486	.0010	* 1.0319	416.7226	113.8323	.0010
* .3971	73.2490	11.8791	.0010	* 1.0319	39.5945	10.8892	.0010
* .3971	120.7612	54.4421	.0010	* 1.1588	68.2998	28.7063	.0010
* .5241	44.5437	31.6758	.0010	* 1.1588	153.4258	70.2795	.0010
* .5241	54.4421	9.8994	.0010	* 1.2858	90.0762	51.4726	.0010
* .6510	43.5539	9.8994	.0010				

REFERENCES				TECHNIQUES	SYSTEMATIC ERROR	MEASURED VARIABLES	
DAHL	PR	163	1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,K0
* KIM	PR	143	1028 66	SPARK CHAMBERS	NOT GIVEN	DSIG/DOH	VS COST PI- ,K0

DATA AT 1.5900 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1436	270.0626	69.6943	.0010	1.0091	148.0993	47.9152	.0010
.2879	165.5227	52.2710	.0010	1.1534	155.0687	47.9152	.0010
.4321	56.6268	23.5225	.0010	1.2976	81.0195	36.5900	.0010
.5764	113.2527	45.3017	.0010	1.4419	52.2710	26.1360	.0010
.7266	68.8232	23.5225	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
GOUSSU	NC	42	606 66	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,K0

DATA AT 1.6000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0890	380.0339	126.3920	.0010	.7284	50.7294	23.2157	.0010
.1255	490.0387	149.6067	.0010	.9476	41.2715	20.6363	.0010
.1803	103.1774	46.4304	.0010	1.0207	53.3088	24.0755	.0010
.2899	41.2715	20.6363	.0010	1.1669	120.3734	36.1127	.0010
.4361	10.3186	10.3186	.0010	1.3130	79.1029	30.0941	.0010
.5822	80.8225	28.3745	.0010	1.4592	12.8980	12.8980	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
DAHL	PR	163	1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOH	VS COST PI- ,K0

DATA AT 1.7000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0842	305.2192	108.8444	.0010	.8065	41.8638	19.0296	.0010
.1255	289.9963	102.7552	.0010	1.0542	29.6856	17.5073	.0010
.1874	277.0569	72.3095	.0010	1.1367	35.0136	17.5073	.0010
.3112	25.1187	14.4627	.0010	1.3018	76.8764	29.6856	.0010
.4763	54.8333	22.8353	.0010	1.4669	84.4878	30.4467	.0010
.6414	33.4913	16.7461	.0010	1.6320	.0010	8.3736	.0010

REACTION PI- P = S0 K0

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
DAHL	PR	163 1430	67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,K0	
DATA AT 1.8000 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.1498	205.0161	26.9263	.0010	.8853	60.4805	11.8235	.0010	
.3336	72.4397	14.0104	.0010	1.0692	25.9813	7.5182	.0010	
.5175	107.9757	14.0104	.0010	1.2531	12.9170	6.4932	.0010	
.7014	104.5588	14.0104	.0010					

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
KIM	PR	143 1028	66	SPARK CHAMBERS	NOT GIVEN	DSIG/DOM	VS COST PI- ,K0	
DATA AT 1.8600 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0792	496.5902	133.9706	.0010	.9328	23.8321	13.5268	.0010	
.1280	405.1302	129.4620	.0010	1.2255	7.7300	7.7300	.0010	
.2012	62.4772	31.5611	.0010	1.3230	23.8321	13.5268	.0010	
.3475	46.3751	18.6795	.0010	1.5181	48.9514	19.9676	.0010	
.5426	92.7492	28.3407	.0010	1.7132	58.6127	24.4762	.0010	
.7377	82.4438	26.4085	.0010	1.9083	25.1203	18.0354	.0010	

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
DAHL	PR	163 1430	67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,K0	
DATA AT 1.9500 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0774	218.2534	44.4818	.0010	1.0044	68.2049	13.0487	.0010	
.1304	279.3403	50.4126	.0010	1.3222	42.7026	10.0833	.0010	
.2099	124.5472	23.7241	.0010	1.4282	39.7372	9.4902	.0010	
.3688	32.6202	8.8972	.0010	1.6401	38.5510	9.4902	.0010	
.5806	42.1095	10.0833	.0010	1.8520	18.9795	6.5248	.0010	
.7925	55.1572	11.2695	.0010	2.0638	32.6202	10.0833	.0010	

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
DAHL	PR	163 1430	67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,K0	
DATA AT 2.0500 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0760	289.5168	53.9785	.0010	1.0844	45.2549	10.3603	.0010	
.1336	185.3783	42.5287	.0010	1.4301	31.6242	8.7246	.0010	
.2201	87.2374	20.7196	.0010	1.5453	38.1669	9.8151	.0010	
.3929	29.9885	8.1794	.0010	1.7758	22.9006	7.6342	.0010	
.6234	41.9835	9.8151	.0010	2.0063	17.9935	6.5437	.0010	
.8539	74.1519	13.6317	.0010	2.2368	12.5412	5.9985	.0010	

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
DAHL	PR	163 1430	67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,K0	
DATA AT 2.2000 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0748	209.1864	46.2164	.0010	1.2050	49.1353	11.6765	.0010	
.1394	153.7280	38.9192	.0010	1.7216	24.3249	7.7846	.0010	
.2363	71.0267	19.4601	.0010	1.9799	9.2441	4.3793	.0010	
.4300	36.9733	9.7306	.0010	2.2382	8.2711	4.8658	.0010	
.6883	45.2434	10.7035	.0010	2.4965	9.7306	5.8387	.0010	
.9467	71.5132	13.1359	.0010					

REACTION PI- P = S0 K0

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
DAHL	PR	163	1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,KC
DATA AT 2.3500 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0745	280.2195	115.9535	.0010	1.3262	20.2048	14.0558	.0010
.1460	104.0947	73.7889	.0010	1.7554	83.4517	32.5028	.0010
.2533	82.1340	41.2871	.0010	1.8985	.0010	10.5421	.0010
.4679	69.3968	28.9891	.0010	2.1846	10.5421	10.5421	.0010
.7540	36.8950	21.9617	.0010	2.4707	.0010	10.5421	.0010
1.0401	39.5303	19.7656	.0010	2.7568	.0010	10.5421	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
DAHL	PR	163	1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,KC
DATA AT 2.6000 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0753	318.3050	69.5591	.0010	1.1972	18.9027	8.3177	.0010
.1584	104.3382	39.3165	.0010	1.5296	29.1096	10.2079	.0010
.2830	43.0968	17.7686	.0010	2.0282	7.5617	5.2935	.0010
.5324	17.7686	7.9397	.0010	2.1944	.0010	3.7813	.0010
.8648	35.5361	11.3420	.0010	3.1917	.0010	3.7813	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
DAHL	PR	163	1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,KC
DATA AT 3.1500 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0806	237.2378	26.9071	.0010	1.9809	5.7873	2.0262	.0010
.1892	38.1903	10.4463	.0010	2.6324	2.0262	1.1583	.0010
.3520	21.4102	5.4980	.0010	2.8496	.8689	.8689	.0010
.6778	15.6239	3.4728	.0010	3.2839	.0010	.8689	.0010
1.1122	16.2025	3.4728	.0010	3.7183	.8689	.8689	.0010
1.5465	9.2590	2.6048	.0010	4.1526	.8689	.8689	.0010

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
DAHL	PR	163	1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DOM	VS COST PI- ,KC
DATA AT 3.9300 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0350	161.0010	47.0010	.0010	.5500	5.6010	3.2010	.0010
.0750	115.0010	30.0010	.0010	.7500	5.8010	3.3010	.0010
.1250	86.0010	26.0010	.0010	.9500	8.1010	4.0010	.0010
.1750	78.0010	25.0010	.0010	1.1500	14.9010	5.7010	.0010
.2250	38.0010	17.0010	.0010	1.3500	4.3010	4.3010	.0010
.3500	3.6010	3.6010	.0010				

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES	
ABRAMOVICH	NP	827	477 71	BUBBLE CHAMBER	NOT GIVEN	DSIG/DT	VS -T PI- ,KD
DATA AT 4.0000 GEV/C FOLLOW							
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0936	149.5855	29.0692	.0010	2.6848	.0010	1.2741	.0010
.2417	40.3145	14.2168	.0010	3.5732	.0010	1.2741	.0010
.4638	16.3386	6.7907	.0010	3.8693	.0010	1.2741	.0010
.9080	8.9124	3.3958	.0010	4.4616	.0010	1.2741	.0010
1.5003	1.2741	1.2741	.0010	5.0538	.0010	1.2741	.0010
2.0925	.0010	1.2741	.0010	5.6461	.0010	1.2741	.0010

REACTION PI- P = S0 K0

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
DAHL	PR	163	1430 67	BUBBLE CHAMBER	NOT GIVEN	DSIG/DTM	VS	COST PI- ,KE
DATA AT 4.5000 GEV/C FOLLOW								
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR		
		+	-			+	-	
.0200	161.0010	29.0010	.0010	.7000	4.4010	1.2010	.0010	
.0600	85.0010	21.0010	.0010	.8737	5.1351	.9178	.0010	
.0900	116.0010	25.0010	.0010	1.2000	4.5010	1.5010	.0010	
.1027	100.8489	11.0026	.0010	1.3877	.5878	.2394	.0010	
.1600	63.0010	13.0010	.0010	1.7000	.7010	.5010	.0010	
.2741	33.0058	5.5018	.0010	4.9001	.0743	.0743	.0010	
.3000	21.0010	5.0010	.0010	6.6135	1.1012	.7344	.0010	

REFERENCE				TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES		
CRENNEL	PR	6	1220 72	BUBBLE CHAMBER	10.0 P/C	DSIG/DT	VS	-T PI- ,KE

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          PI-                      K*0890
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DATA AT 4.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0734	77.0010	11.0010	.0010	1.1610	7.5118	1.7799	.0010
.1234	87.0010	12.0010	.0010	1.4484	3.3810	1.0010	.0010
.1984	86.7010	8.5010	.0010	1.4789	3.3611	1.3846	.0010
.2073	83.0147	7.9071	.0010	1.7968	.7521	.6335	.0010
.2984	78.4010	8.1010	.0010	1.8484	.7010	.7010	.0010
.4234	48.2010	5.2010	.0010	2.2736	.4754	.4754	.0010
.5252	39.5313	3.9540	.0010	3.2273	.2382	.2975	.0010
.5734	35.7010	4.5010	.0010	4.4989	.2579	.2777	.0010
.7484	23.0010	3.0010	.0010	5.4525	.4754	.4754	.0010
.8431	19.7662	2.9658	.0010	5.9294	2.7681	1.1869	.0010
.9484	13.0010	2.5010	.0010	6.2473	3.3611	1.3846	.0010
1.1484	10.0010	2.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CRENNEL PR 6 1220 72	BUBBLE CHAMBER	10.0 P/C	DSIG/DT VS TPR PI-, K*0890

DATA AT 6.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0829	45.0010	8.0010	.0010	.5329	16.0010	3.4010	.0010
.1829	61.0010	10.0010	.0010	.8329	3.0010	1.5010	.0010
.2829	42.0010	8.0010	.0010	1.2829	2.4010	.9010	.0010
.3829	27.0010	6.0010	.0010	1.7829	1.8010	.9010	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CRENNEL PR 6 1220 72	BUBBLE CHAMBER	15.0 P/C	DSIG/DT VS TPR PI-, K*0890

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DATA AT 4.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1198	32.0010	5.0010	.0010	1.3198	3.7010	1.0010	.0010
.2198	31.0010	5.0010	.0010	1.6082	1.4304	.6136	.0010
.2236	30.6320	3.4725	.0010	1.8198	1.2010	.6010	.0010
.3198	31.0010	5.0010	.0010	2.2236	.4911	.3686	.0010
.4698	21.5010	3.0010	.0010	3.1467	.6749	.2869	.0010
.5313	19.4006	2.2473	.0010	4.3774	.4298	.2665	.0010
.6948	16.0010	3.0010	.0010	5.3005	.4707	.4911	.0010
.8390	14.2955	2.0431	.0010	5.7620	2.0431	1.2262	.0010
.9448	9.5010	2.0010	.0010	6.0697	2.8599	1.0220	.0010
1.1467	6.3314	1.4304	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CRENNEL PR 6 1220 72	BUBBLE CHAMBER	10.0 P/C	DSIG/DT VS TPR PI-, K*0890

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DATA AT 4.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2600	29.0010	8.0010	.0010	.7972	6.4213	2.4086	.0010
.2688	34.7777	6.4213	.0010	.9100	4.3010	1.4010	.0010
.3100	46.0010	12.0010	.0010	1.0100	24.0010	7.0010	.0010
.3600	26.0010	9.0010	.0010	1.1495	6.9563	1.3386	.0010
.3862	12.3066	5.0837	.0010	1.4600	1.7010	.9010	.0010
.5100	14.0010	4.0010	.0010	1.7100	15.0010	7.0010	.0010
.5624	7.2239	3.2112	.0010	2.9111	.5093	.2953	.0010
.6100	37.0010	10.0010	.0010	4.6726	3.4519	1.1781	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
CRENNEL	BUBBLE CHAMBER	10.0 P/C	VS TPR PI- ,K*01420


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DATA AT 4.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1505	40.0010	10.0010	.0010	1.1505	4.0010	2.0010	.0010
.3505	40.0010	10.0010	.0010	1.7505	1.6010	1.1010	.0010
.6505	12.0010	4.0010	.0010				

CRENNEL	REFERENCE		TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
	PR	6 1220 72	BUBBLE CHAMBER	10.0 P/C	VS TPR PI- ,K0

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          P                      Y*01385
    
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DATA AT 4.5000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1346	24.0010	7.0010	.0010	.8346	7.6010	2.6010	.0010
.3346	15.0010	4.0010	.0010	1.5346	1.5010	.4010	.0010
.5346	10.0010	4.0010	.0010				
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR	MEASURED VARIABLES		
CRENNEL	PR	6 1220	72	BUBBLE CHAMBER	10.0 P/C	DSIG/DT	VS TPR PI- ,KO

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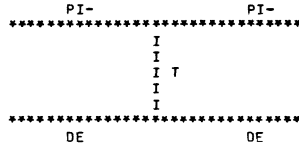
          PI-                PI-
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DATA AT 23.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
42.2869	.2710	.1110	.0010	42.3209	1.7010	.5010	.0010
42.3059	.3510	.1310	.0010	42.3299	2.3010	.6010	.0010
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BABAEV	PL	388	342 72	SPARK CHAMBERS	20.0 P/C	DSIG/DT	VS -T PI- ,N

DATA AT 40.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
74.1913	.0660	.0660	.0010	74.2463	.3180	.0700	.0010
74.2113	.1720	.0700	.0010	74.2563	.4480	.0780	.0010
74.2263	.1580	.0650	.0010	74.2663	.4630	.0860	.0010
74.2363	.2240	.0760	.0010				
REFERENCE		TECHNIQUE		SYSTEMATIC ERROR		MEASURED VARIABLES	
BABAEV	PL	388	342 72	SPARK CHAMBERS	20.0 P/C	DSIG/DT	VS -T PI- ,N



DATA AT .8950 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1650	2940.0010	500.0010	.0010	.4600	98.9010	7.4010	.0010
.1750	1980.0010	240.0010	.0010	.4800	85.3010	6.7010	.0010
.1850	1820.0010	110.0010	.0010	.5000	88.6010	6.8010	.0010
.1950	1470.0010	81.0010	.0010	.5250	81.2010	5.5010	.0010
.2050	1248.0010	58.0010	.0010	.5550	92.4010	7.8010	.0010
.2200	1044.0010	41.0010	.0010	.5850	85.3010	7.0010	.0010
.2400	692.0010	26.0010	.0010	.6150	90.5010	7.8010	.0010
.2600	518.0010	20.0010	.0010	.6450	78.9010	6.8010	.0010
.2800	373.0010	17.0010	.0010	.6750	68.2010	6.1010	.0010
.3000	286.0010	14.0010	.0010	.7050	64.4010	5.9010	.0010
.3200	222.0010	16.0010	.0010	.7400	68.4010	5.7010	.0010
.3400	162.0010	13.0010	.0010	.7800	67.9010	5.7010	.0010
.3600	140.0010	10.0010	.0010	.8200	58.1010	5.1010	.0010
.3800	107.1010	7.8010	.0010	.8600	52.6010	4.8010	.0010
.4000	105.6010	7.8010	.0010	.9000	48.6010	7.4010	.0010
.4200	100.8010	7.5010	.0010	.9400	47.0010	18.0010	.0010
.4400	91.1010	7.1010	.0010				

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 BRADAMANTE PL 288 191 68 SPARK CHAMBERS 15.0 P/C DSIG/DT VS -T PI- ,PI-

DATA AT .9940 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1700	2050.0010	730.0010	730.0010	.2900	259.0010	26.0010	24.0010
.1900	1210.0010	190.0010	190.0010	.3100	219.0010	34.0010	25.0010
.2100	968.0010	112.0010	112.0010	.3400	158.0010	43.0010	24.0010
.2300	822.0010	61.0010	61.0010	.3800	147.0010	81.0010	28.0010
.2500	494.0010	33.0010	33.0010	.4200	107.0010	92.0010	30.0010
.2700	352.0010	28.0010	27.0010	.4600	74.4010	93.0010	34.0010

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 BRADAMANTE NCL 1 895 69 SPARK CHAMBERS 20.0 P/C DSIG/DT VS -T PI- ,PI-

DATA AT 1.9947 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.0064	1312.9173	101.5663	.0010	.0824	336.9004	116.4295	.0010
.0190	1201.4432	101.5663	.0010	.0951	267.5388	108.9979	.0010
.0317	852.1578	76.7942	.0010	.1078	170.9277	158.5416	.0010
.0444	636.6413	66.8854	.0010	.1205	74.3170	388.9214	.0010
.0571	609.3326	91.6575	.0010	.1332	951.2459	876.9298	.0010
.0698	336.9304	79.2714	.0010				

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 BORGEAUD PL 10 134 64 SPARK CHAMBERS NOT GIVEN DSIG/DOM VS COST PI- ,PI-

DATA AT 2.0100 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2620	514.9010	20.4010	.0010	.5460	55.8010	3.7010	.0010
.2960	254.5310	9.8010	.0010	.5900	49.7010	3.5010	.0010
.3310	126.3010	6.7010	.0010	.6350	43.4010	3.3010	.0010
.3690	72.9010	4.9010	.0010	.6830	37.9010	3.1010	.0010
.4070	53.2010	4.0010	.0010	.7300	30.9010	2.9010	.0010
.4470	52.4010	3.9010	.0010	.7780	30.2010	2.8010	.0010
.4890	52.0010	3.8010	.0010	.8280	24.0010	2.6010	.0010
.5320	45.5010	3.6010	.0010	.8780	21.0010	2.4010	.0010

REFERENCE TECHNIQUE SYSTEMATIC ERROR MEASURED VARIABLES
 FELLINGER PRL 22 1265 69 COUNTERS 7.0 P/C DSIG/DT VS -T PI- ,PI-

REACTION PI- DE = DE PI-

DATA AT 3.7700 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2820	248.7310	5.0010	.0010	.6000	19.7010	1.4010	.0010
.3160	154.5310	3.9010	.0010	.6470	21.6010	1.3010	.0010
.3520	81.5310	2.8010	.0010	.6950	19.1010	1.2010	.0010
.3890	49.5310	2.2010	.0010	.7430	14.6510	.9310	.0010
.4280	39.2310	1.9010	.0010	.7940	13.5710	.8710	.0010
.4690	26.3310	1.5010	.0010	.8470	11.3510	.7510	.0010
.5110	20.5310	1.3010	.0010	.8980	8.7810	.6710	.0010
.5550	20.1310	1.4010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FELLINGER PRL 22 1265 69	COUNTERS	7.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 5.5300 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2910	204.8310	5.6010	.0010	.8040	11.3010	.9610	.0010
.3420	94.0310	3.7010	.0010	.8040	11.3010	.9610	.0010
.3970	46.6310	2.6010	.0010	.8040	8.3110	.8110	.0010
.4960	28.8310	2.0010	.0010	.9670	5.5710	.6510	.0010
.5180	22.2310	1.6010	.0010	1.0530	4.1010	.5510	.0010
.5840	16.9310	1.4010	.0010	1.1410	2.5110	.4310	.0010
.6540	13.8310	1.2010	.0010	1.2320	2.7610	.4310	.0010
.7280	13.6310	1.1010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
FELLINGER PRL 22 1265 69	COUNTERS	7.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 8.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
26.5716	2.7310	1.2010	.0010	26.6816	.6010	.3010	.0010
26.5916	4.6310	1.9010	.0010	26.8116	1.3010	.9010	.0010
26.6416	.8310	.6010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BIRNBAUM PRL 23 433 69	COUNTERS	NOT GIVEN	DSIG/DT VS -T PI- ,DE

DATA AT 8.9000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.5000	12.3010	2.1110	.0010	1.2100	.7630	.0980	.0010
.5460	10.4510	1.0210	.0010	1.3100	.4500	.0700	.0010
.5800	9.1110	.8110	.0010	1.4100	.3730	.0620	.0010
.6300	8.1310	.6410	.0010	1.5100	.2410	.0470	.0010
.6960	5.7710	.5010	.0010	1.6200	.2060	.0400	.0010
.7600	4.5310	.3810	.0010	1.7400	.0980	.0260	.0010
.8400	3.1910	.2810	.0010	1.8600	.1080	.0320	.0010
.9200	2.1910	.2210	.0010	1.9800	.0640	.0260	.0010
1.0100	1.6110	.1610	.0010	2.1200	.0330	.0160	.0010
1.1100	1.0610	.1210	.0010	2.2800	.0103	.0084	.0010

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BRADAMANTE PL 288 191 68	SPARK CHAMBERS	20.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 9.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.1800	1180.0310	270.0010	.0010	.4600	16.0010	1.7010	.0010
.2000	882.0310	158.0010	.0010	.5000	14.5010	1.6010	.0010
.2200	486.0310	63.0010	.0010	.5400	12.3010	1.4010	.0010
.2400	345.0310	24.0010	.0010	.5800	8.5010	1.2910	.0010
.2600	252.0310	12.0010	.0010	.6300	7.5210	.9410	.0010
.2800	161.3310	8.1010	.0010	.6900	7.3510	.9610	.0010
.3000	106.1010	6.5010	.0010	.7600	4.8610	.6610	.0010
.3200	78.2310	5.6010	.0010	.8400	2.2410	.4410	.0010

TURN TO NEXT PAGE

REACTION PI- DE = DE PI-

CONTINUATION OF DATA AT 9.000 GEV/C

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.3400	58.2010	4.8010	.0010	.9200	2.2810	.5010	.0010
.3600	37.3010	3.8010	.0010	1.0100	1.4810	.4310	.0010
.3850	30.4010	2.8010	.0010	1.1100	1.2710	.6710	.0010
.4200	23.9010	2.1010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BRADAMANTE PL 288 191 68	SPARK CHAMBERS	20.0 P/C	DSIG/DT VS -T PI- ,PI-

DATA AT 13.0000 GEV/C FOLLOW

-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2100	575.0010	44.0010	.0010	.4000	27.0010	7.0010	.0010
.2500	241.0010	25.0010	.0010	.4700	12.8010	3.4010	.0010
.2900	145.0010	18.0010	.0010	.5700	11.5010	2.7010	.0010
.3400	58.0010	9.0010	.0010				

REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BRADAMANTE PL 288 191 68	SPARK CHAMBERS	20.0 P/C	DSIG/DT VS -T PI- ,PI-

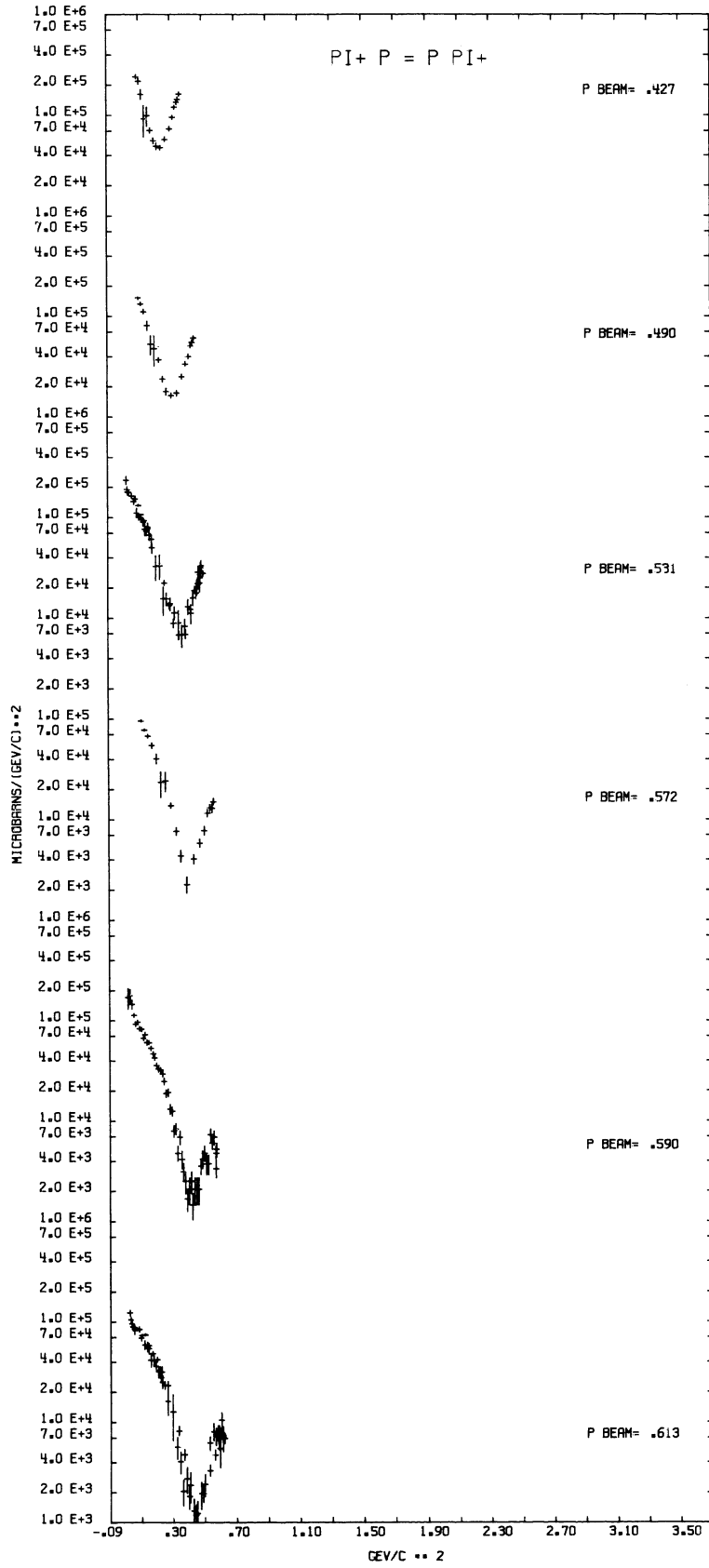
DATA AT 15.2000 GEV/C FOLLOW

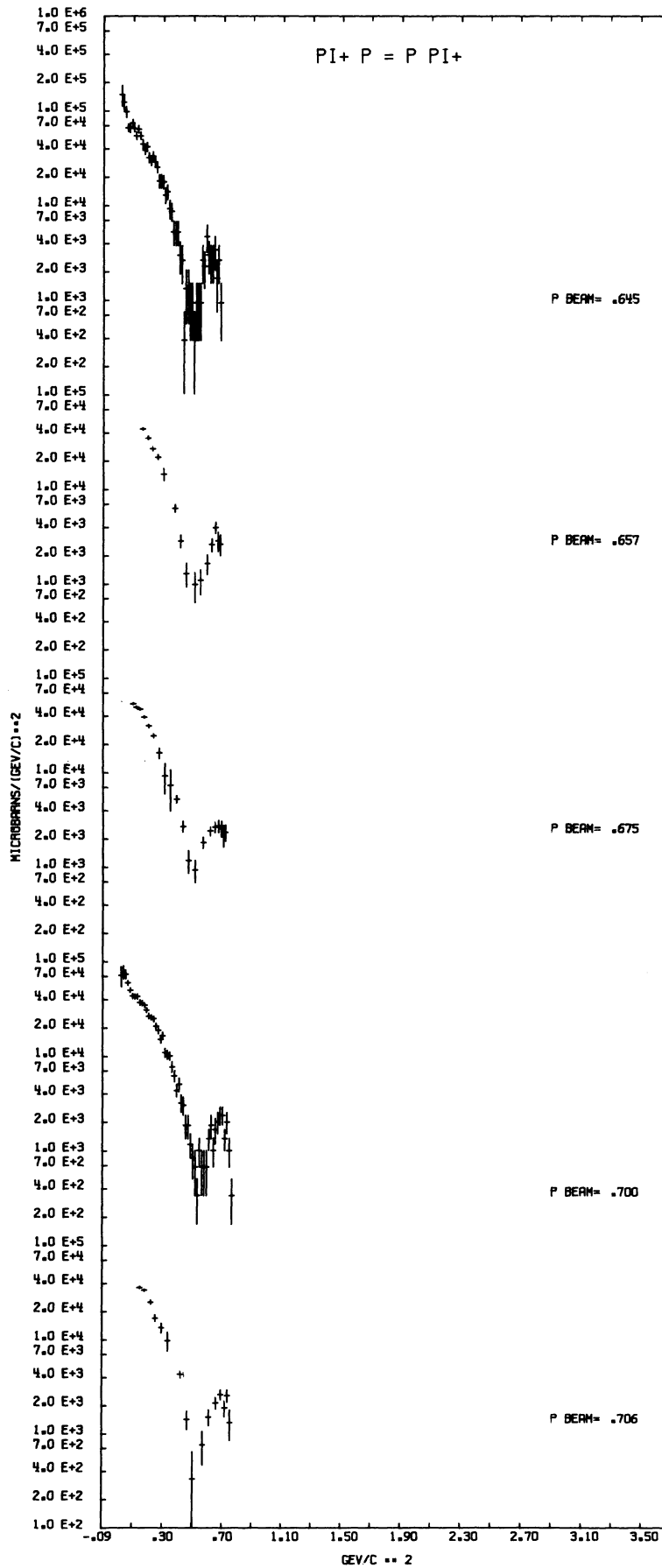
-T	DSIG/DT	ERROR		-T	DSIG/DT	ERROR	
		+	-			+	-
.2000	572.0010	44.0010	.0010	.4500	19.3010	2.0010	.0010
.2200	441.0010	25.0010	.0010	.4900	12.5010	1.6010	.0010
.2400	312.0010	13.0010	.0010	.5300	14.4010	1.7010	.0010
.2600	205.0010	10.0010	.0010	.5700	14.0010	1.7010	.0010
.2800	134.7010	7.9010	.0010	.6100	12.7010	1.6010	.0010
.3000	96.0010	6.5010	.0010	.6600	7.6010	1.0010	.0010
.3200	58.3010	4.9010	.0010	.7200	7.8010	1.0010	.0010
.3400	48.7010	4.3010	.0010	.7800	3.2310	.6310	.0010
.3600	43.8010	4.3010	.0010	.8400	4.9310	.8110	.0010
.3800	26.0010	3.2010	.0010	.9200	2.3210	.4410	.0010
.4100	24.3010	2.2010	.0010	1.0200	1.2410	.3610	.0010

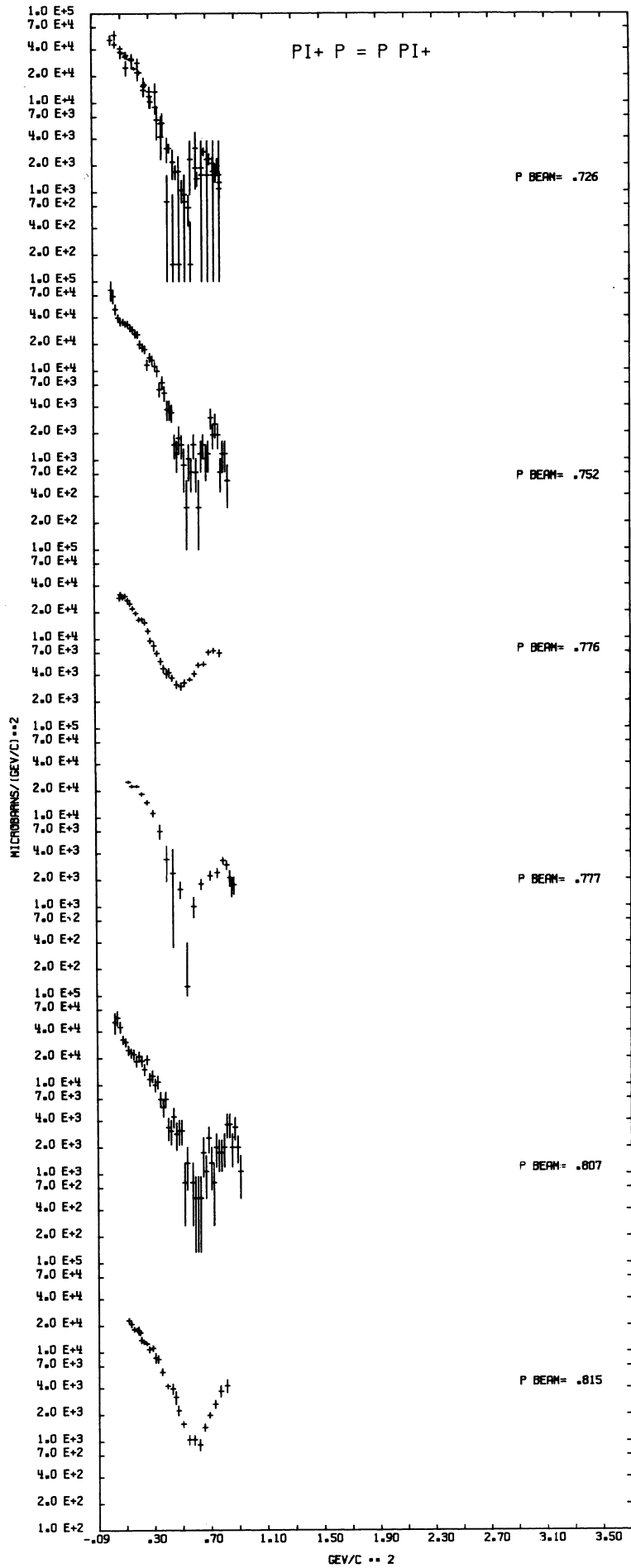
REFERENCE	TECHNIQUE	SYSTEMATIC ERROR	MEASURED VARIABLES
BRADAMANTE PL 288 191 68	SPARK CHAMBERS	20.0 P/C	DSIG/DT VS -T PI- ,PI-

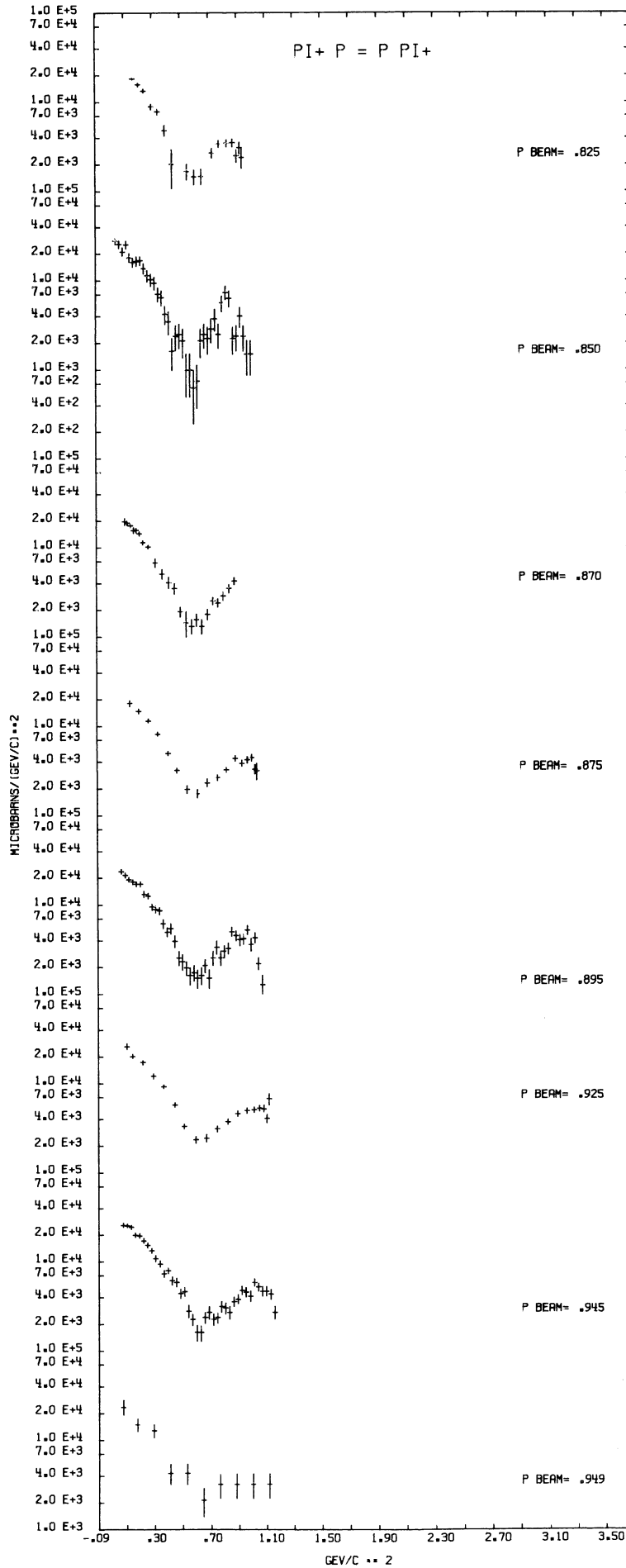
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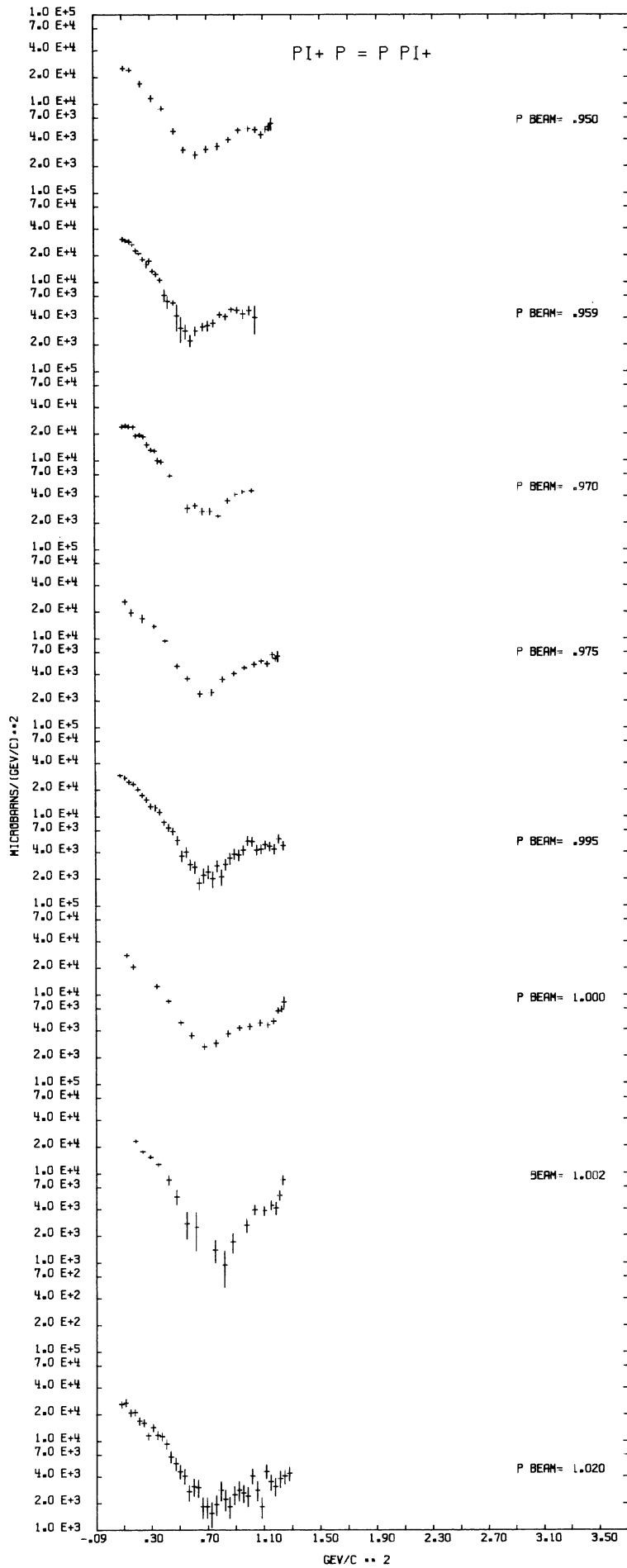
PLOTS OF $d\sigma/dt$ AND $d\sigma/du$

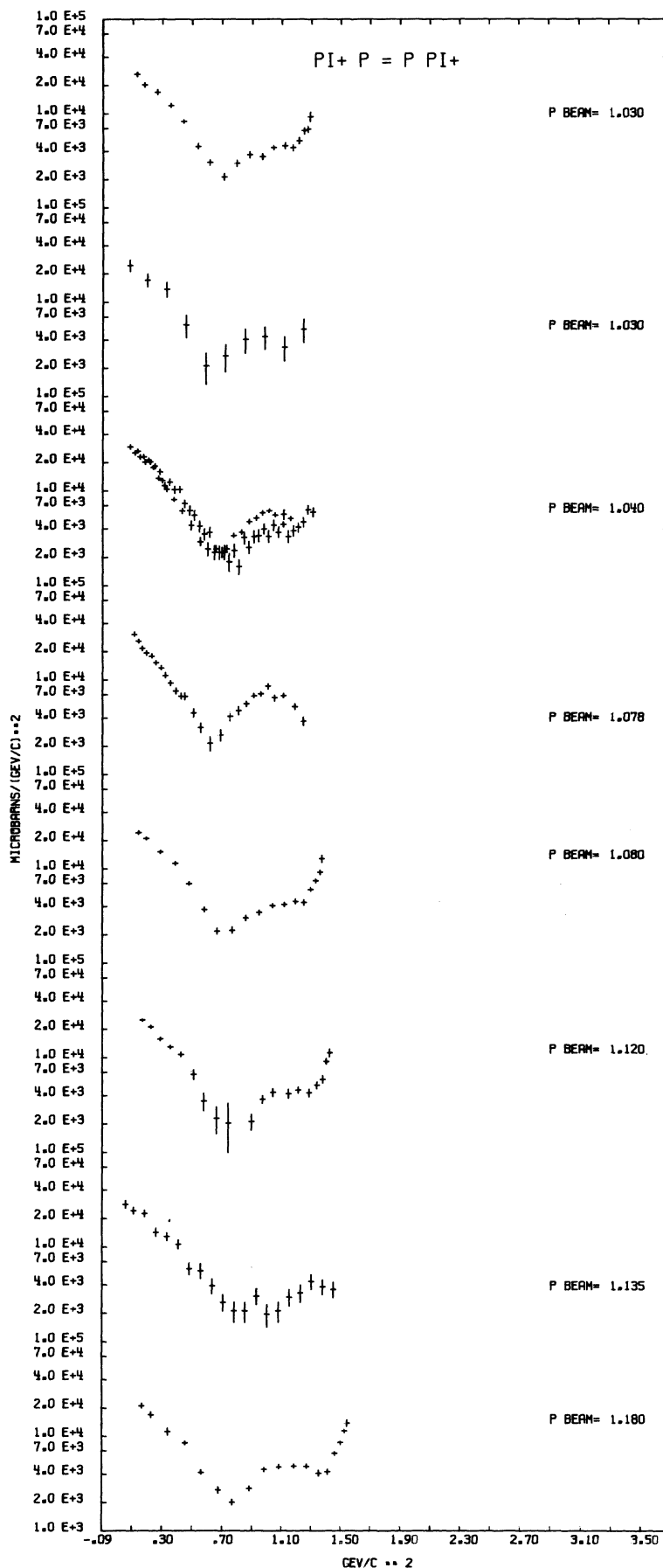


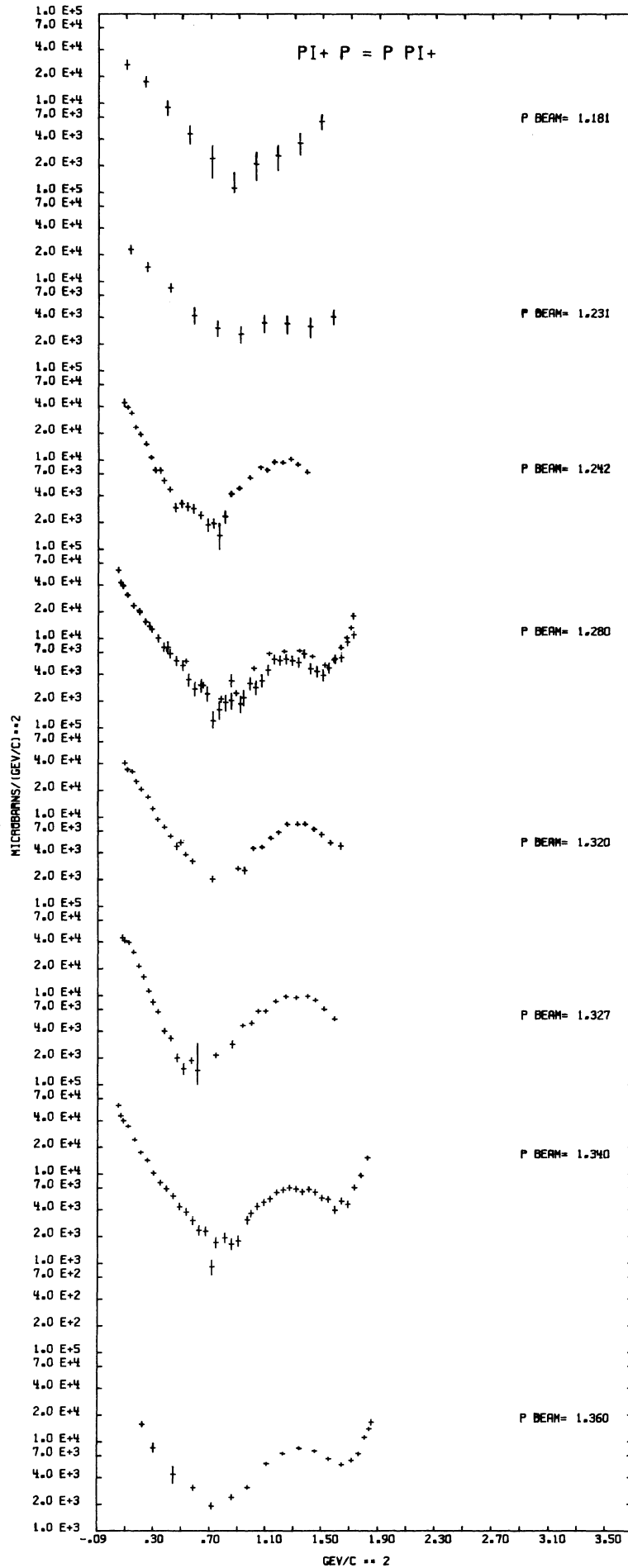


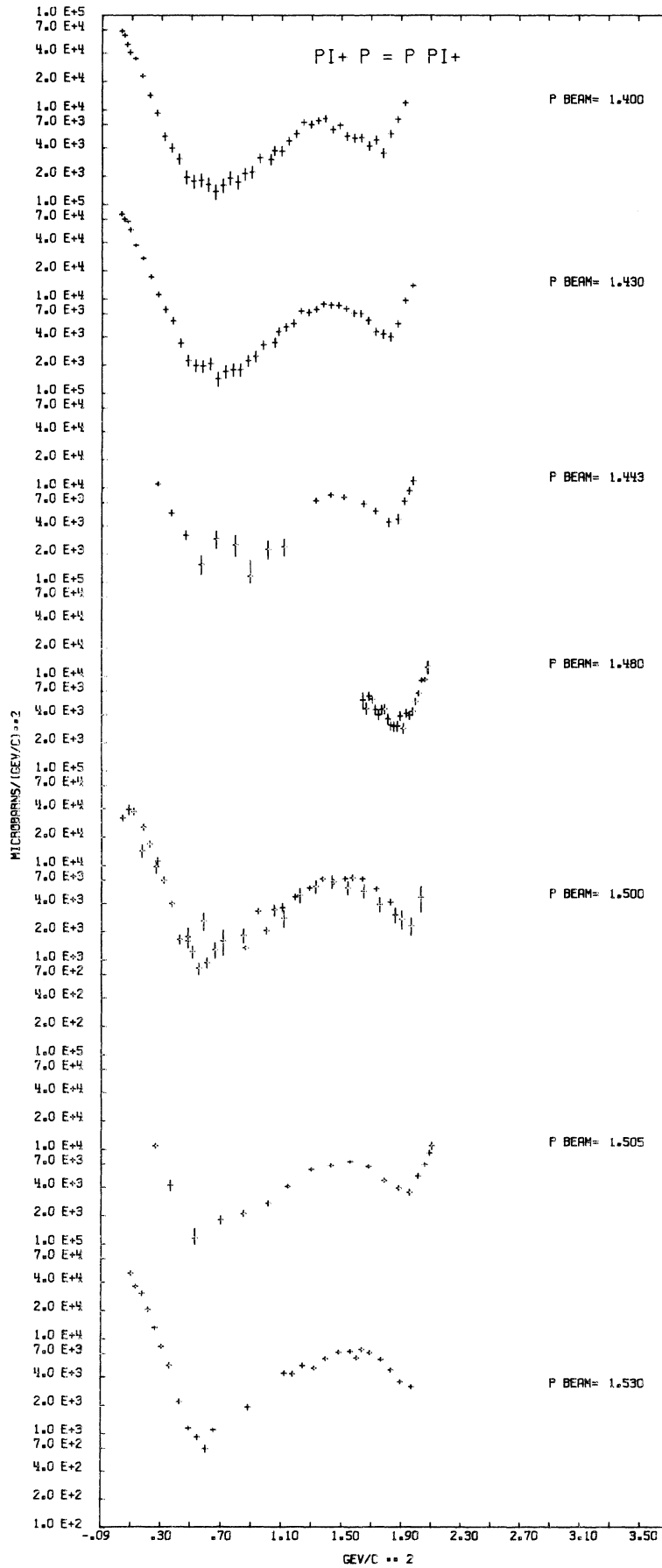


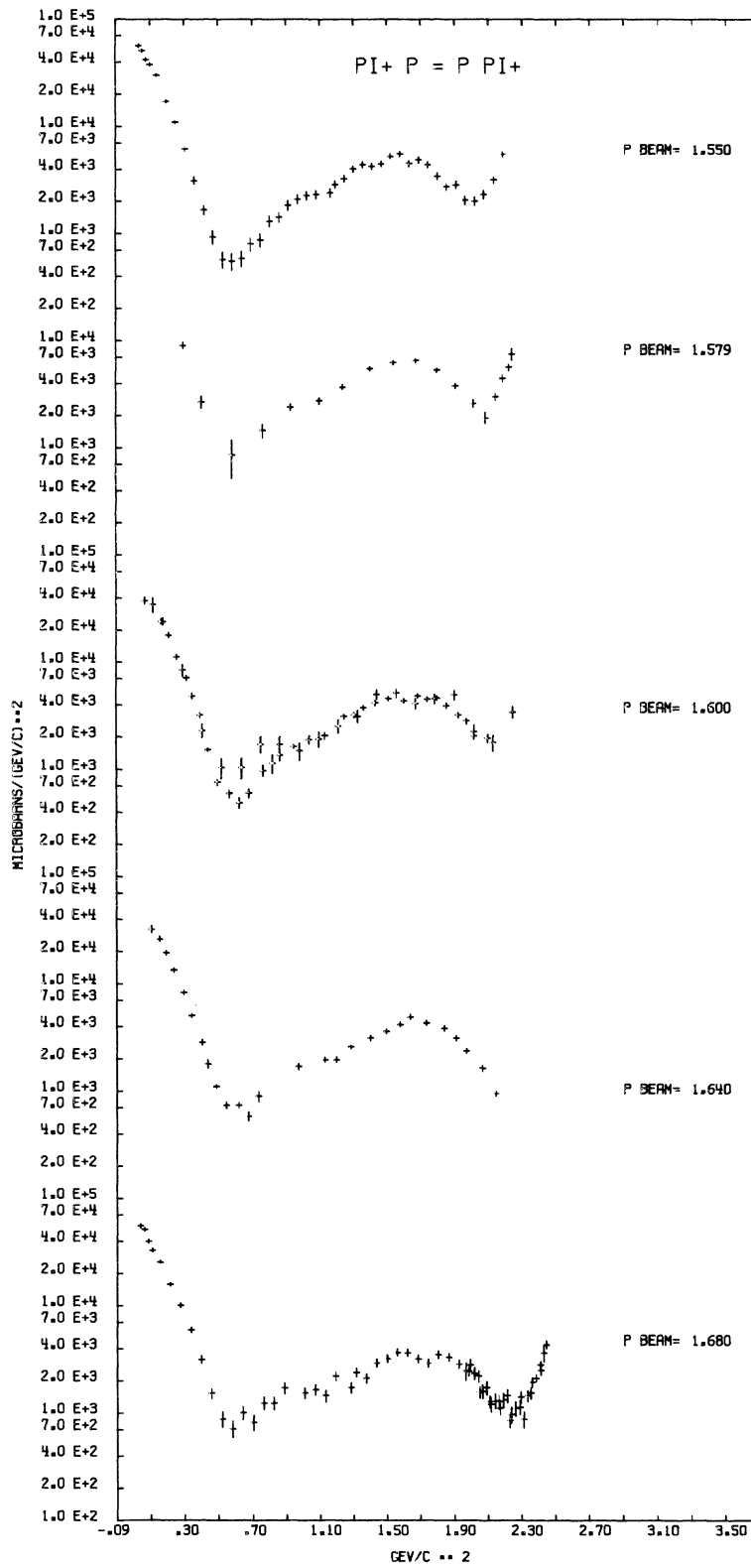


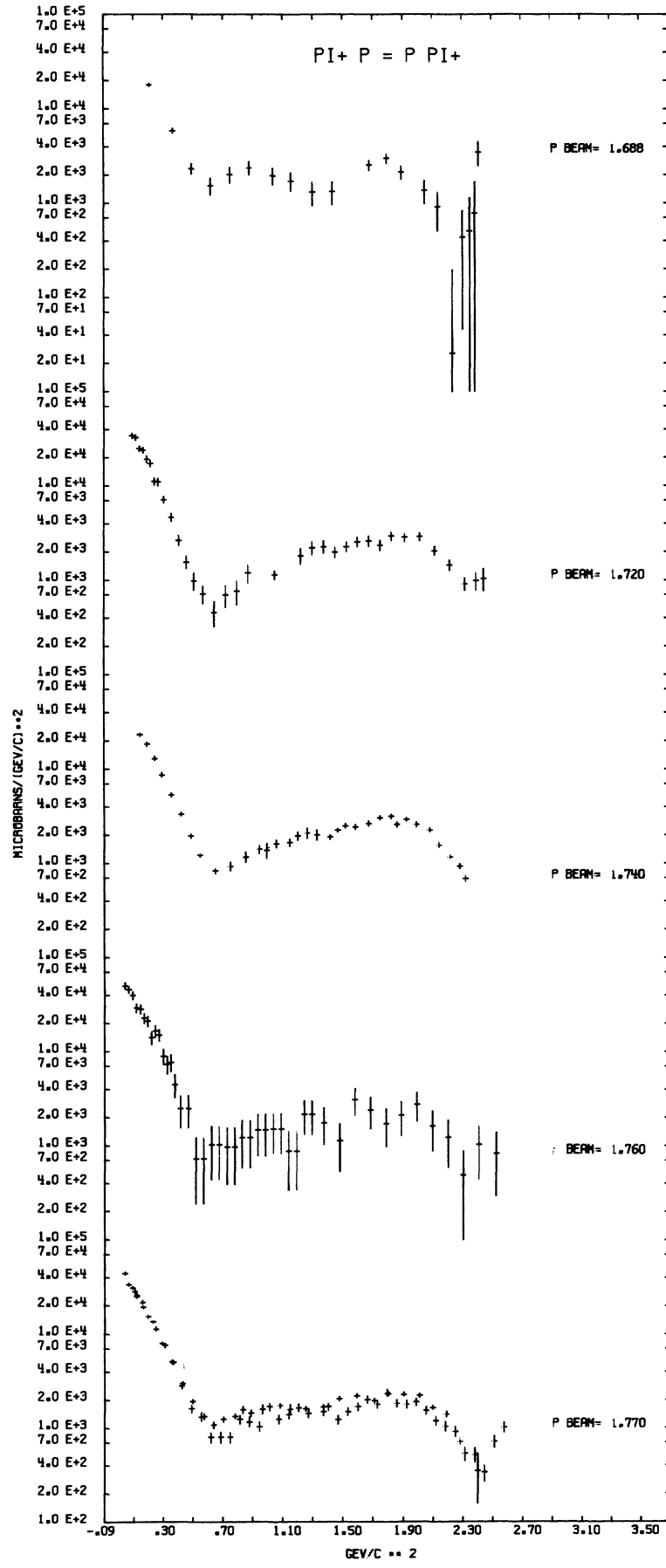


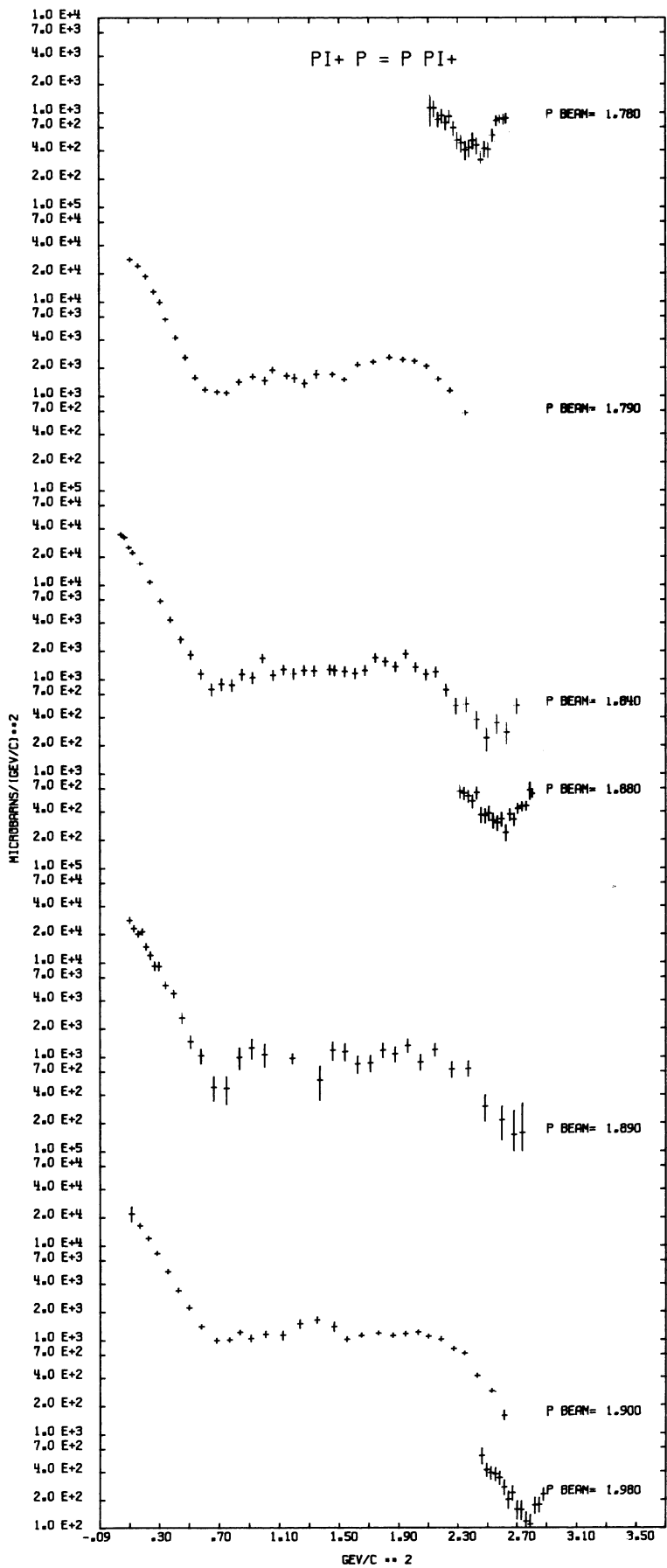


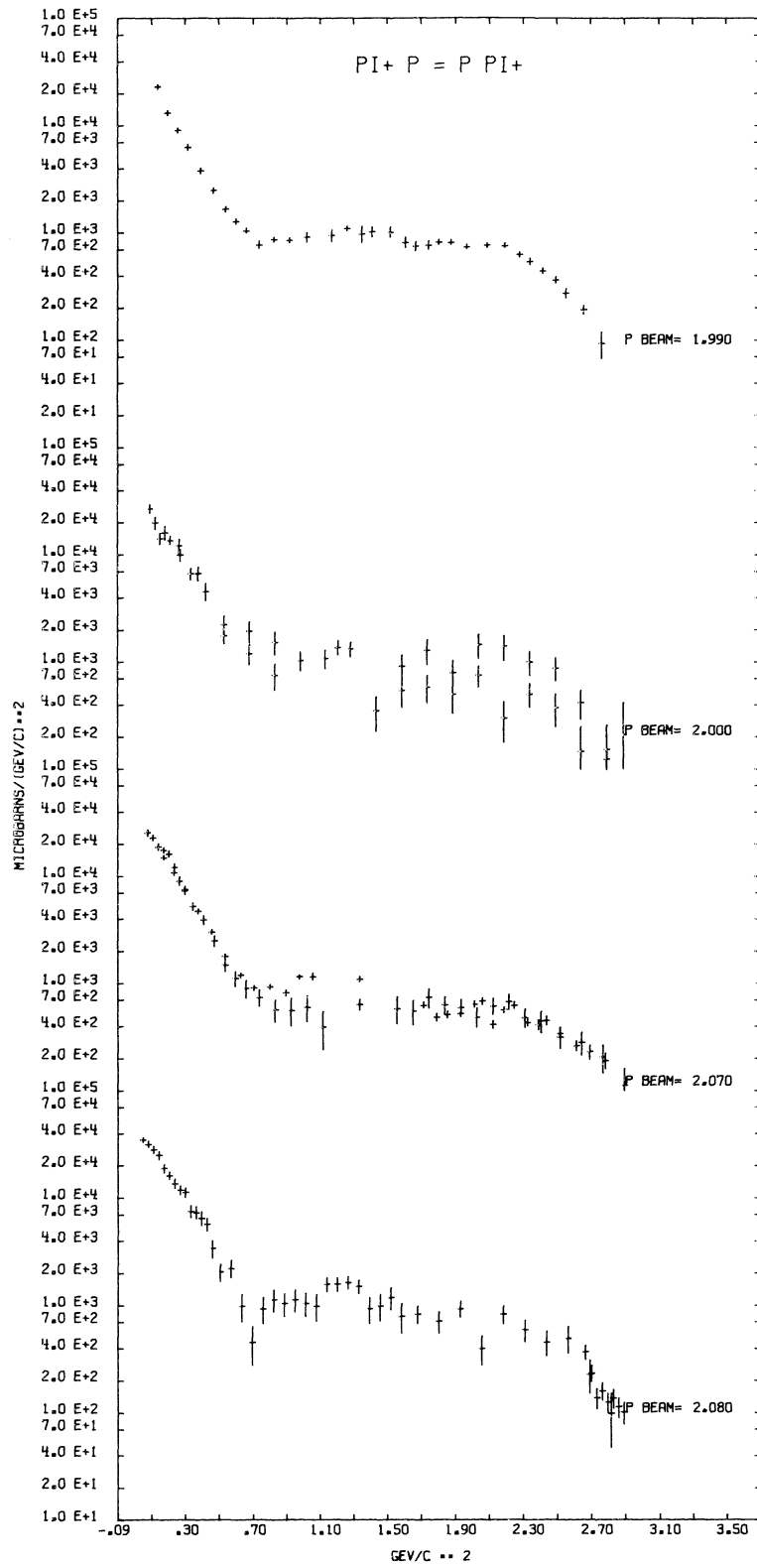


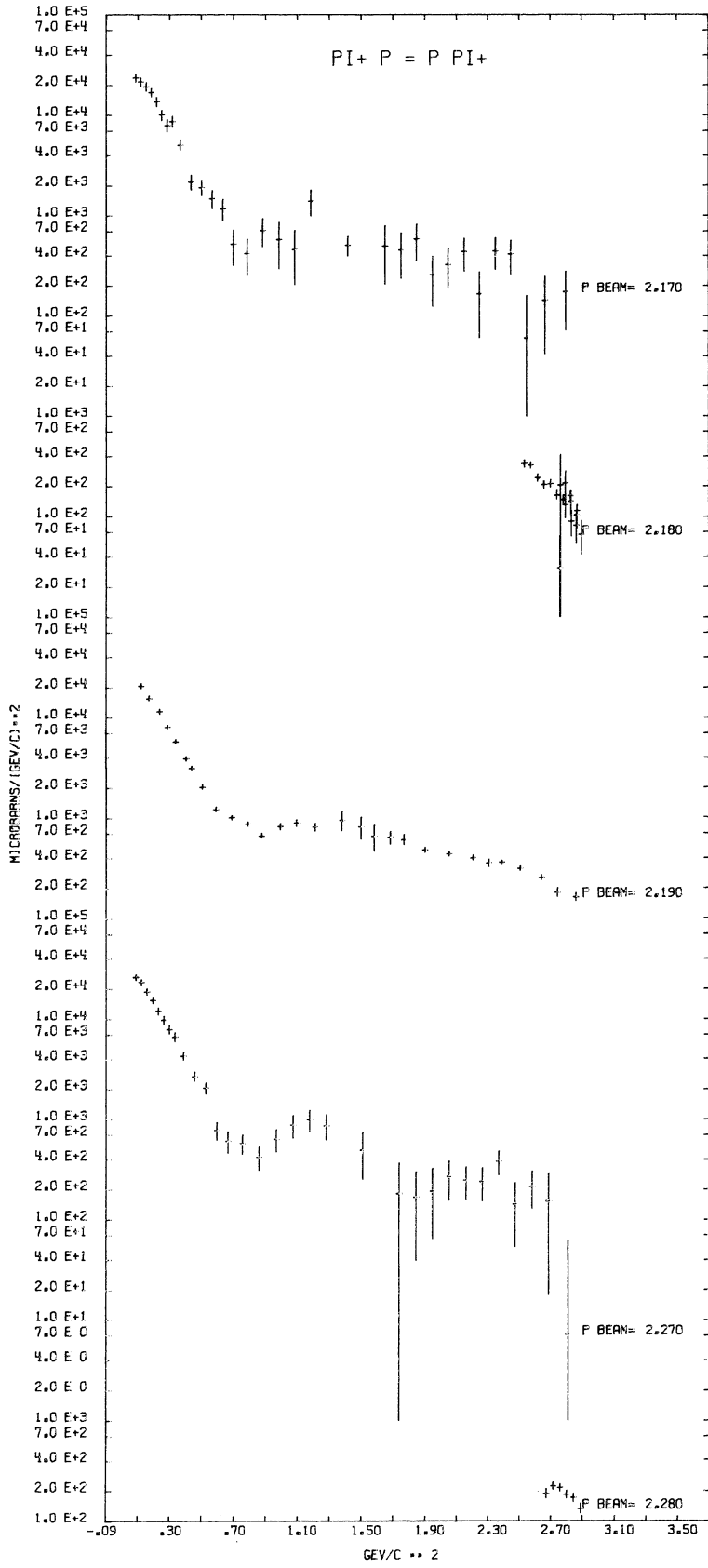


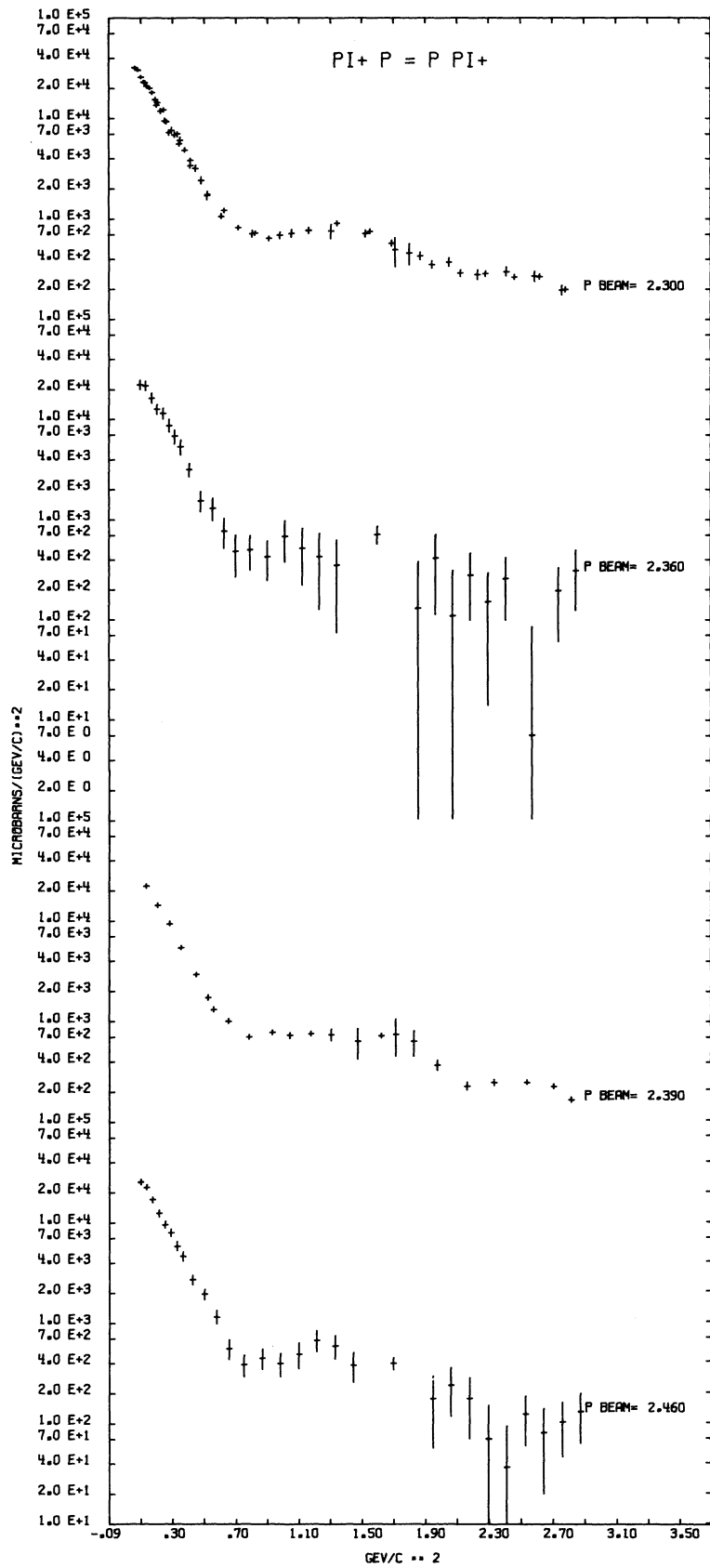


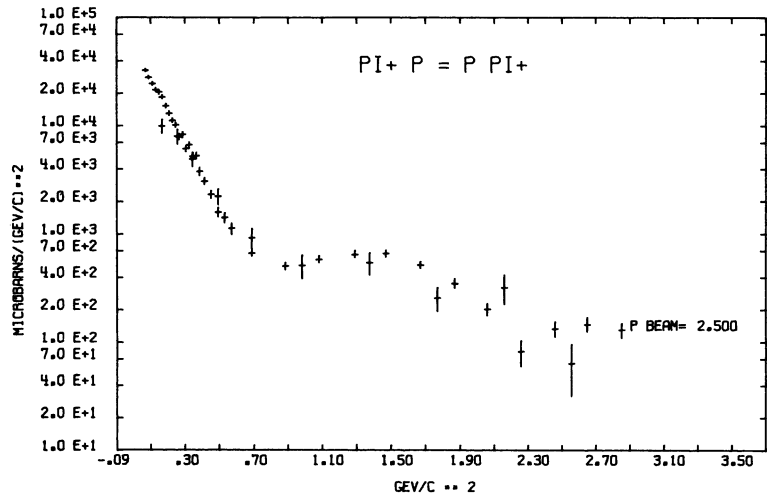


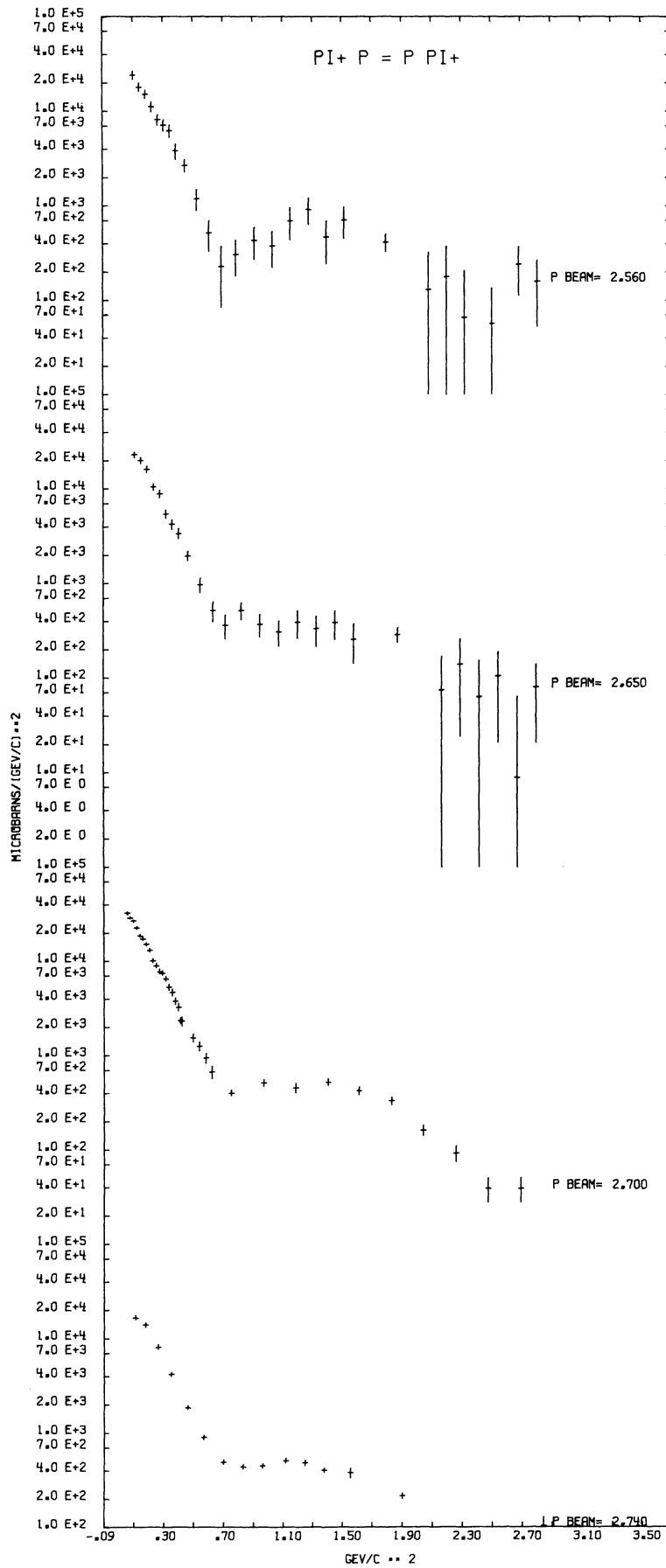


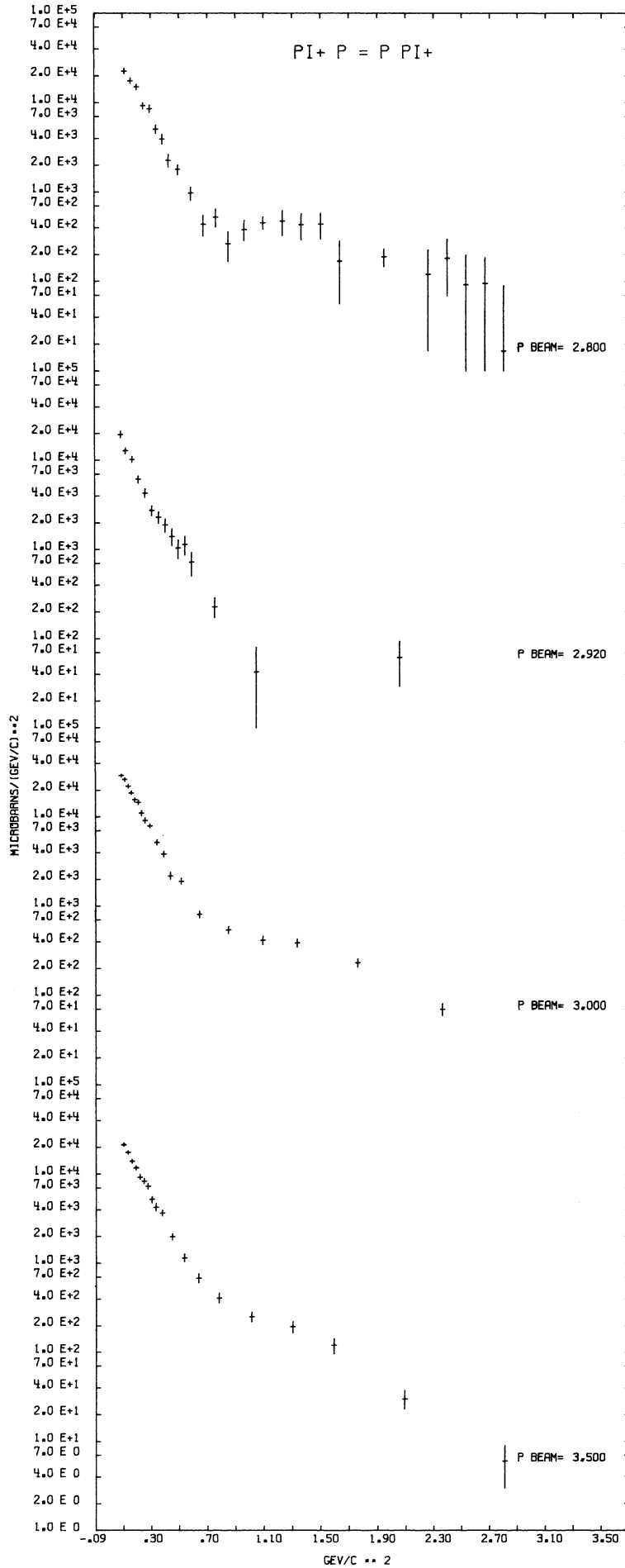


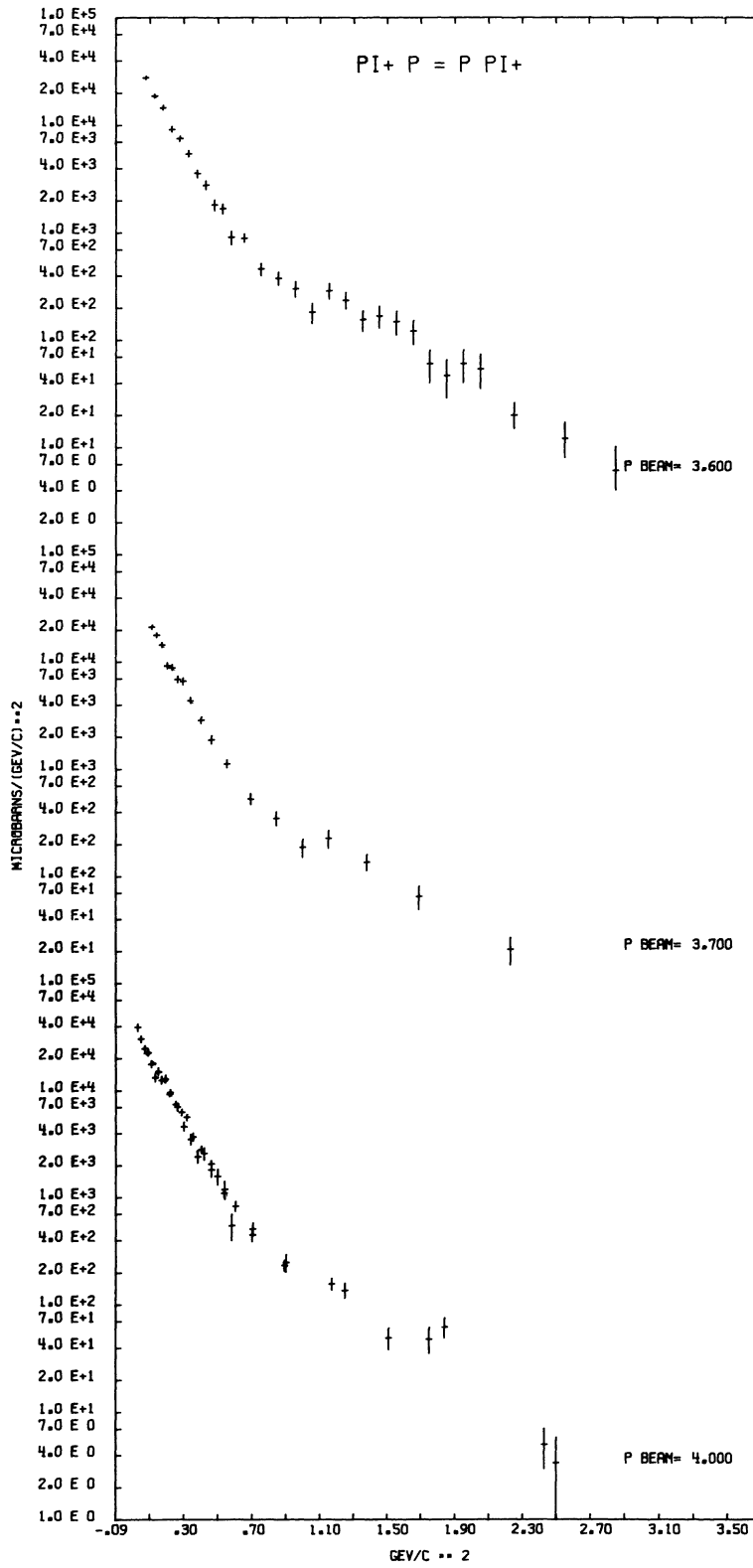


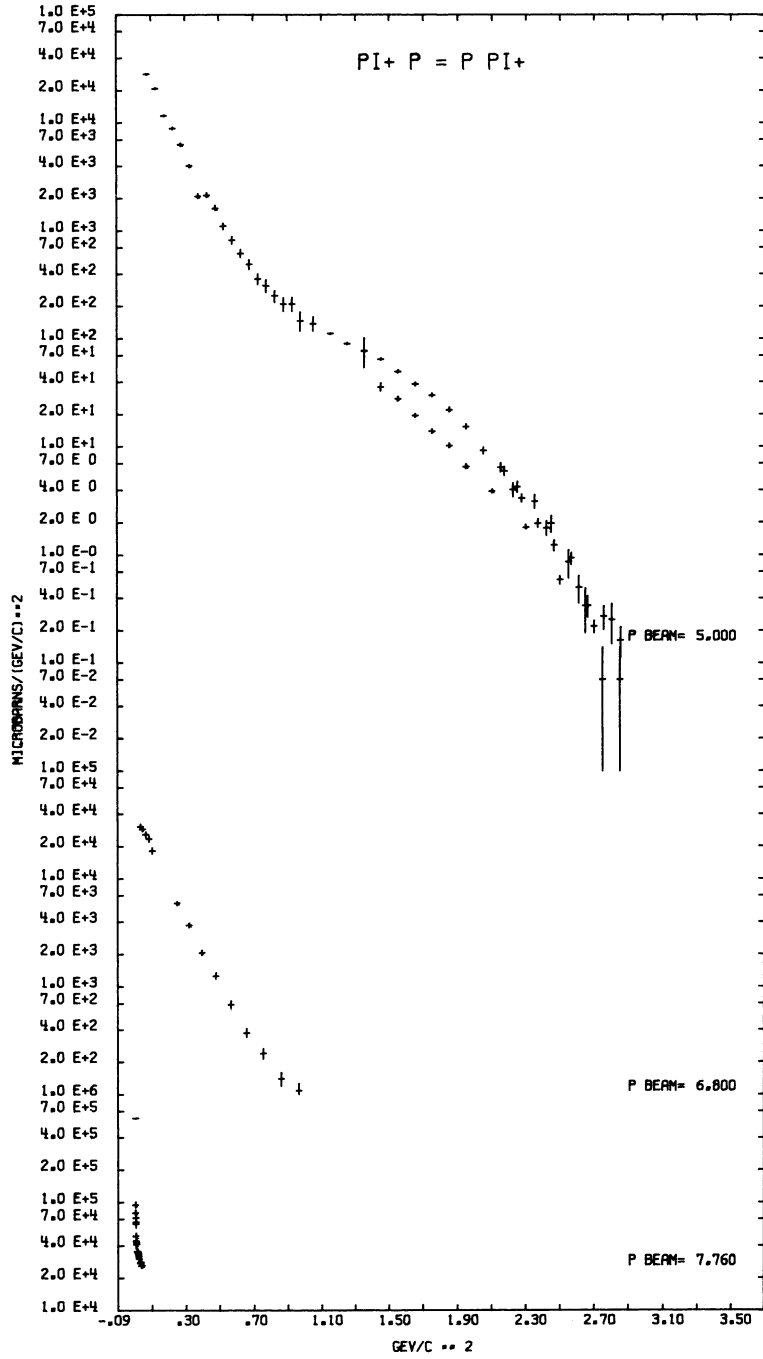


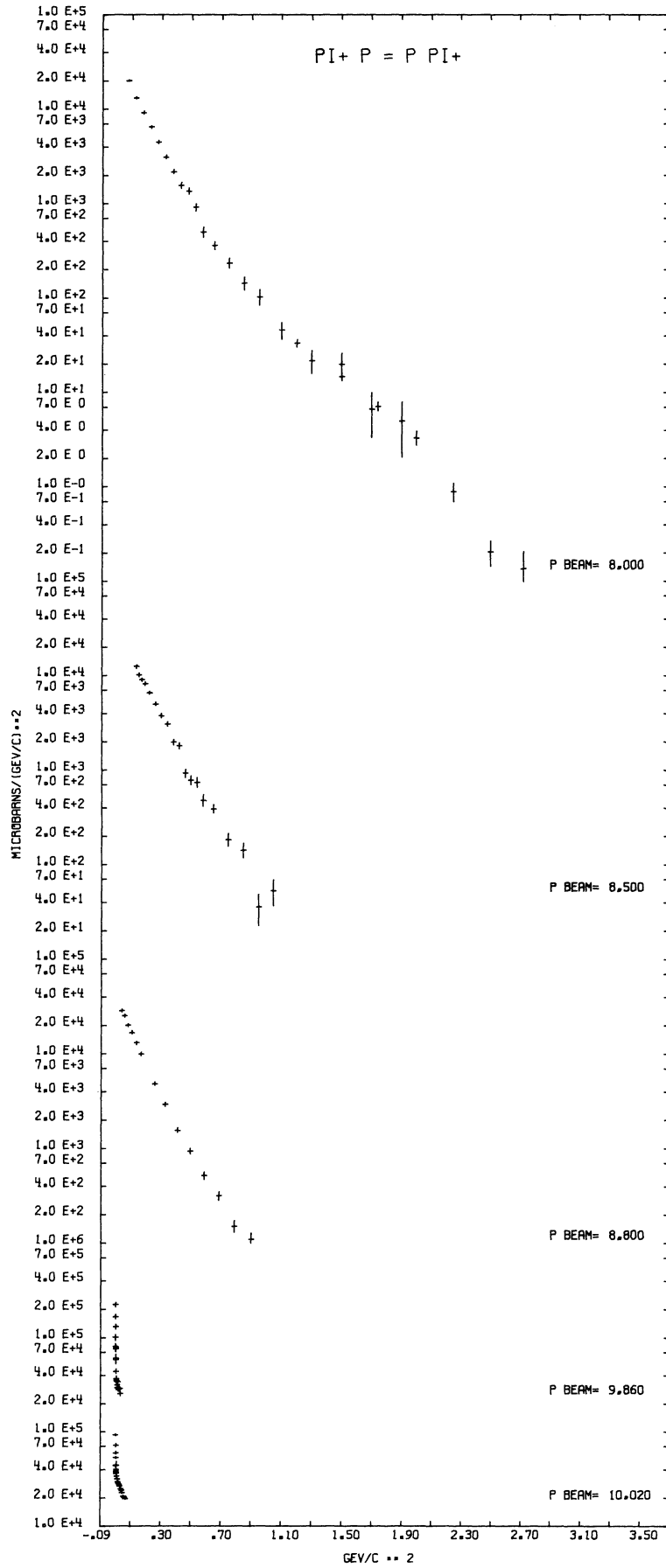


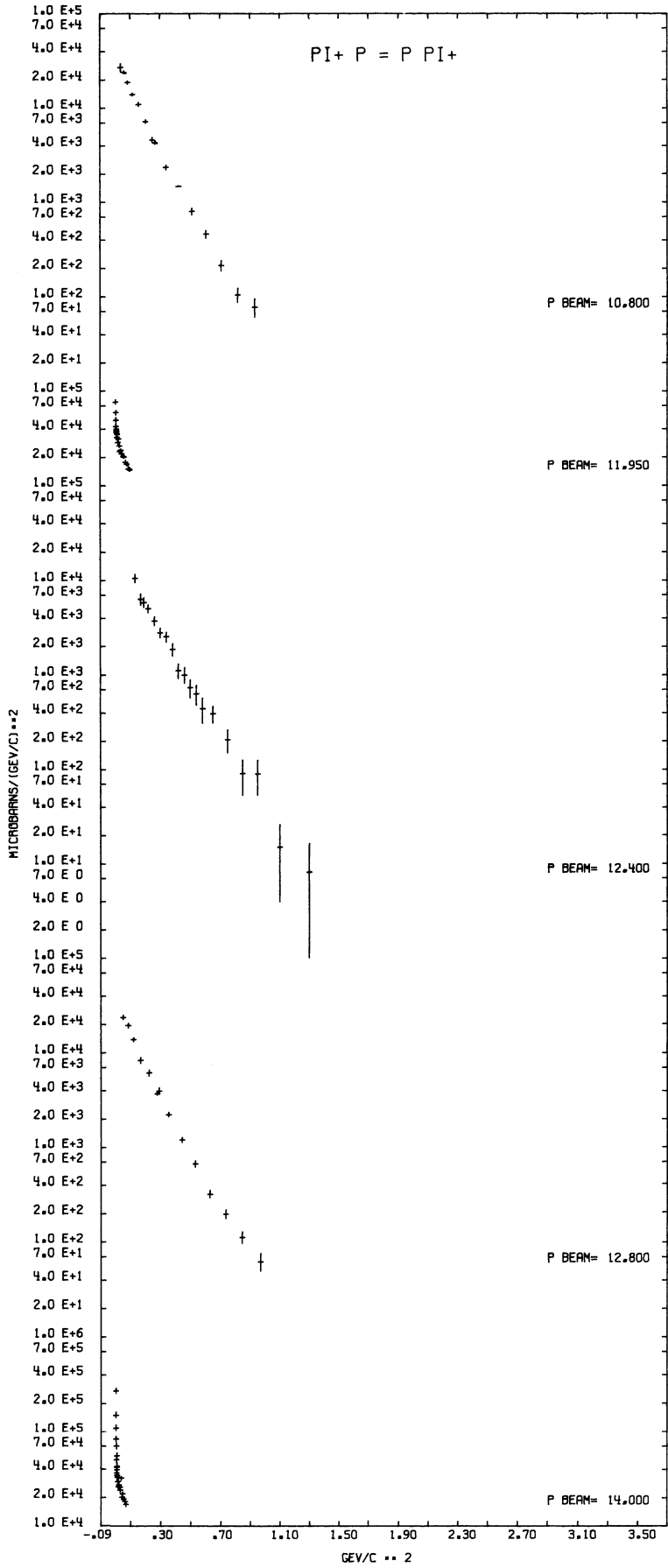


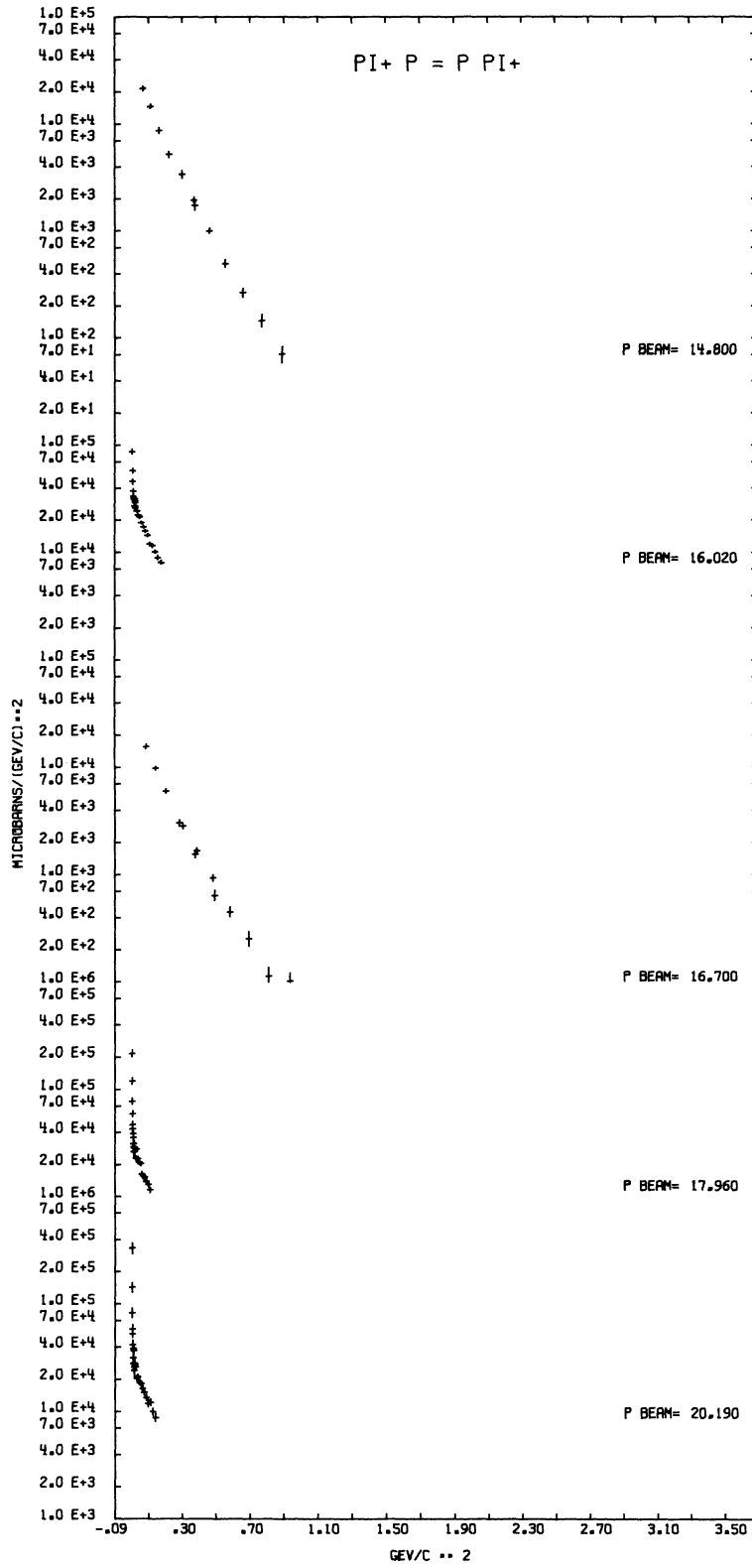




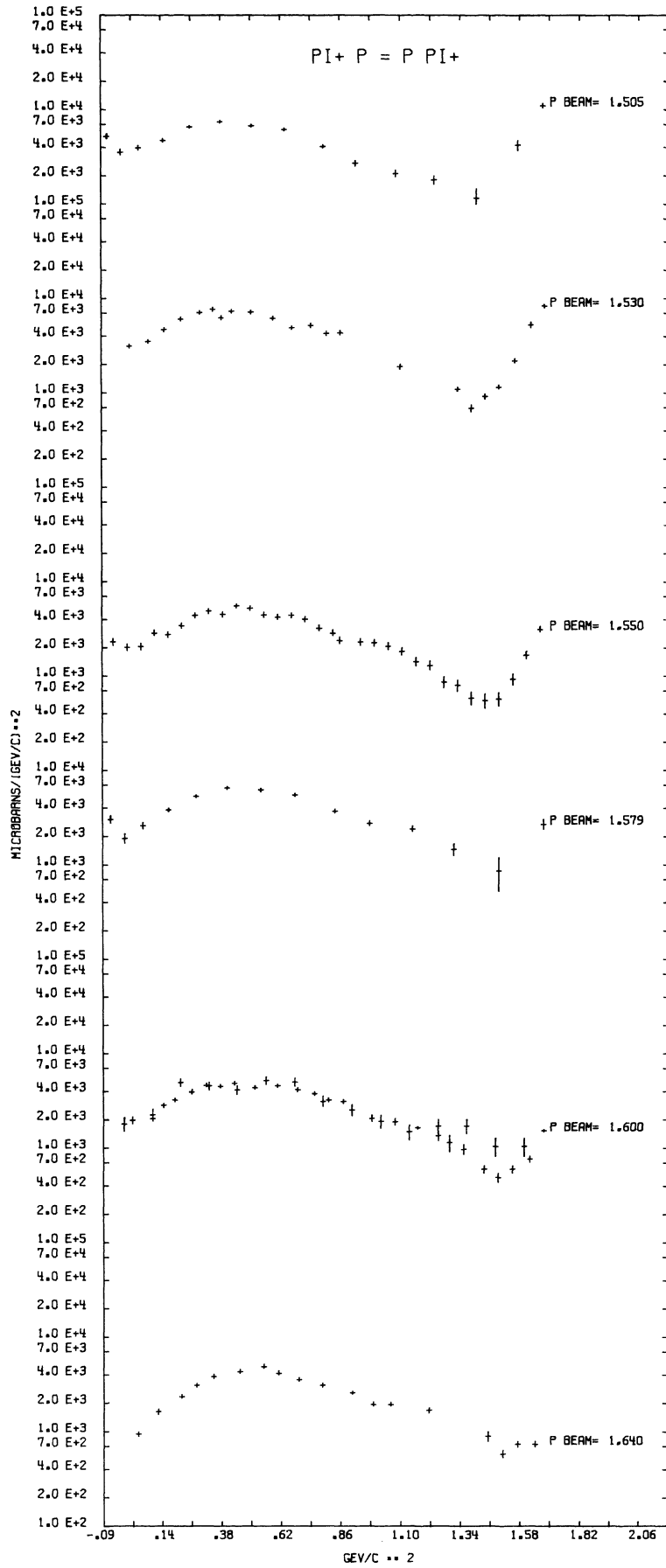


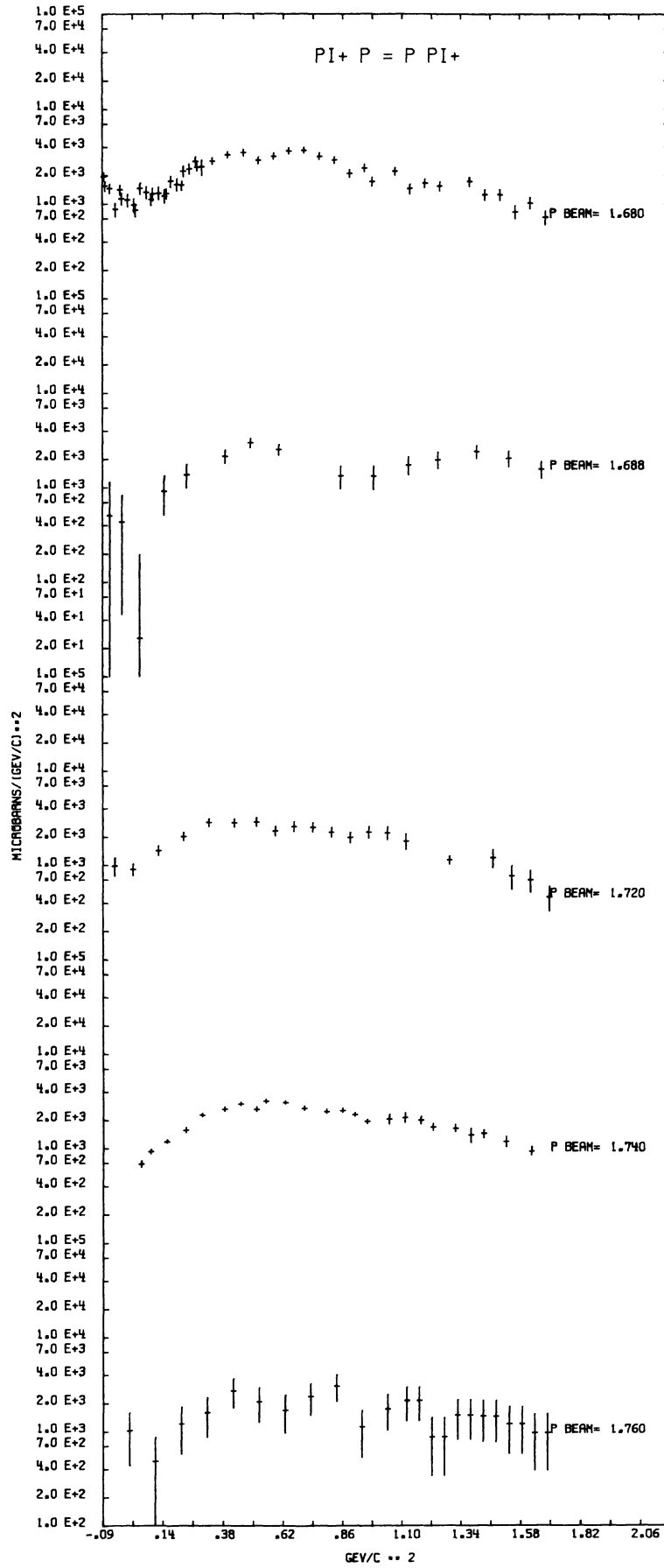


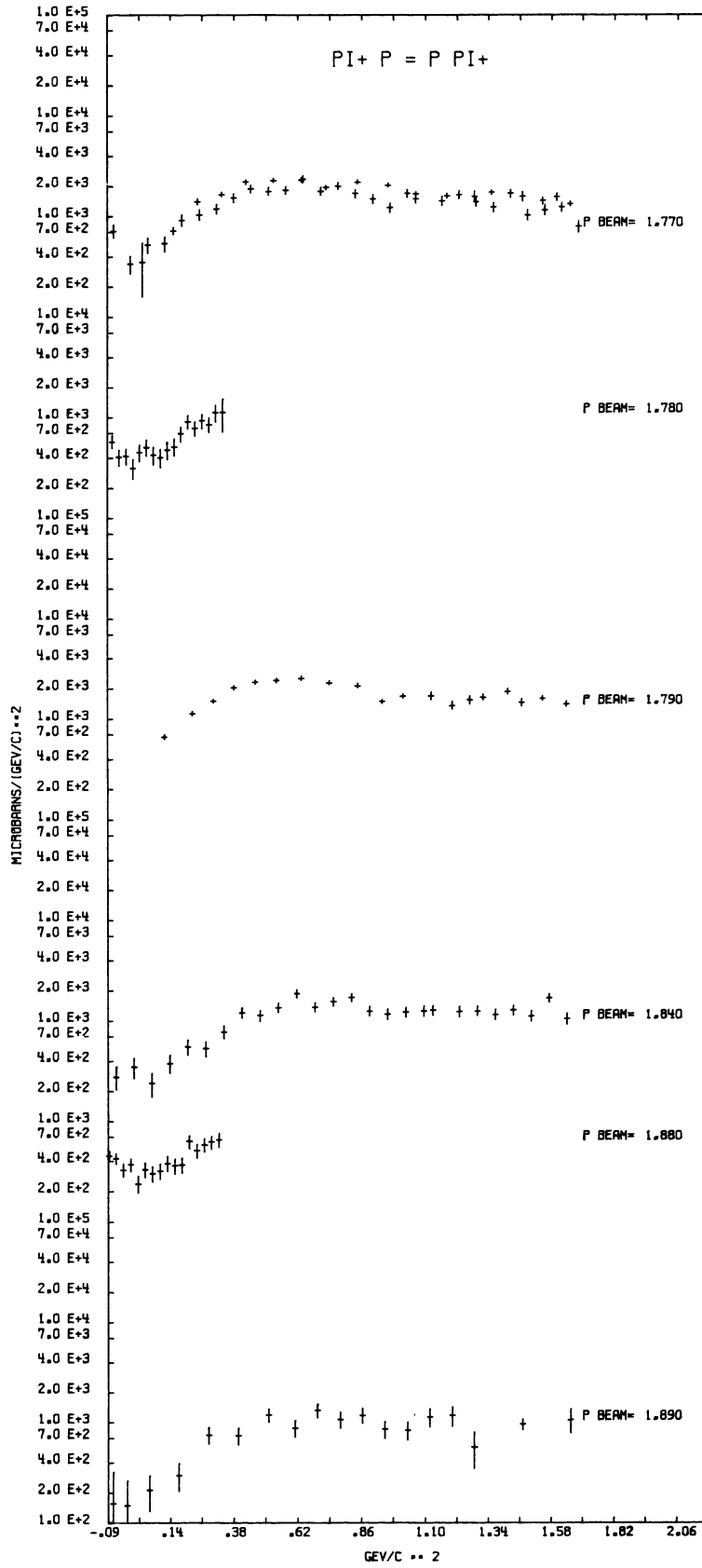


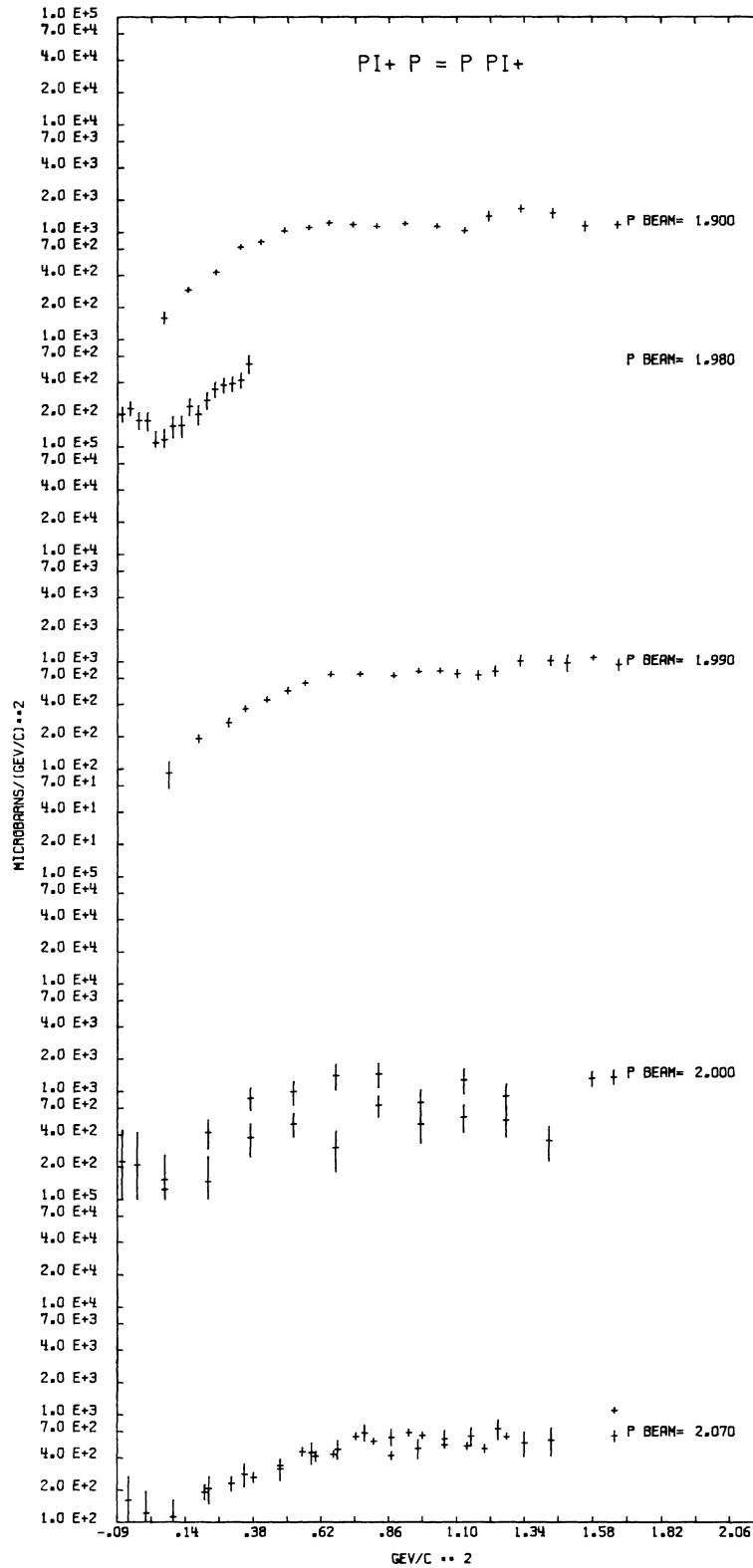


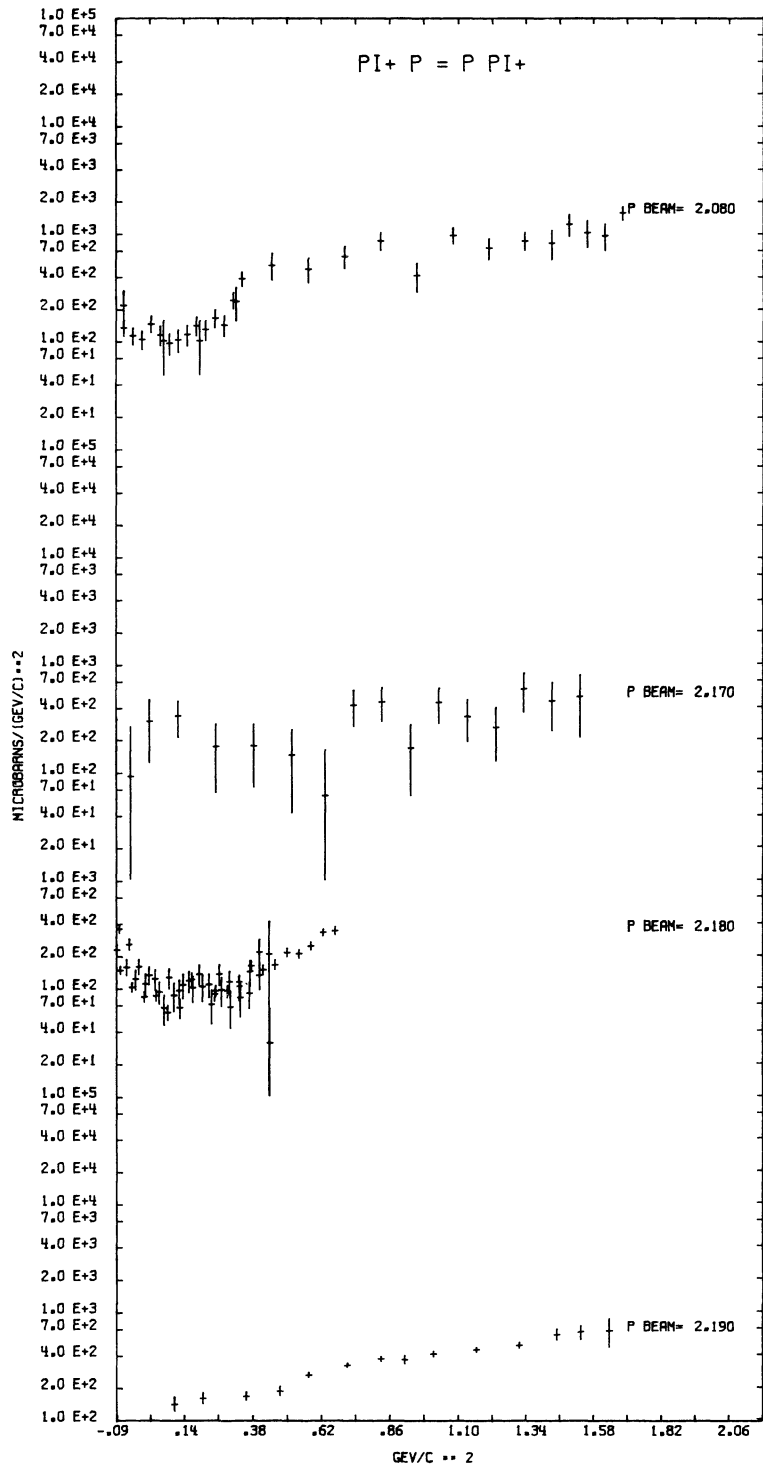
π^+ p ELASTIC BACKWARD SCATT.

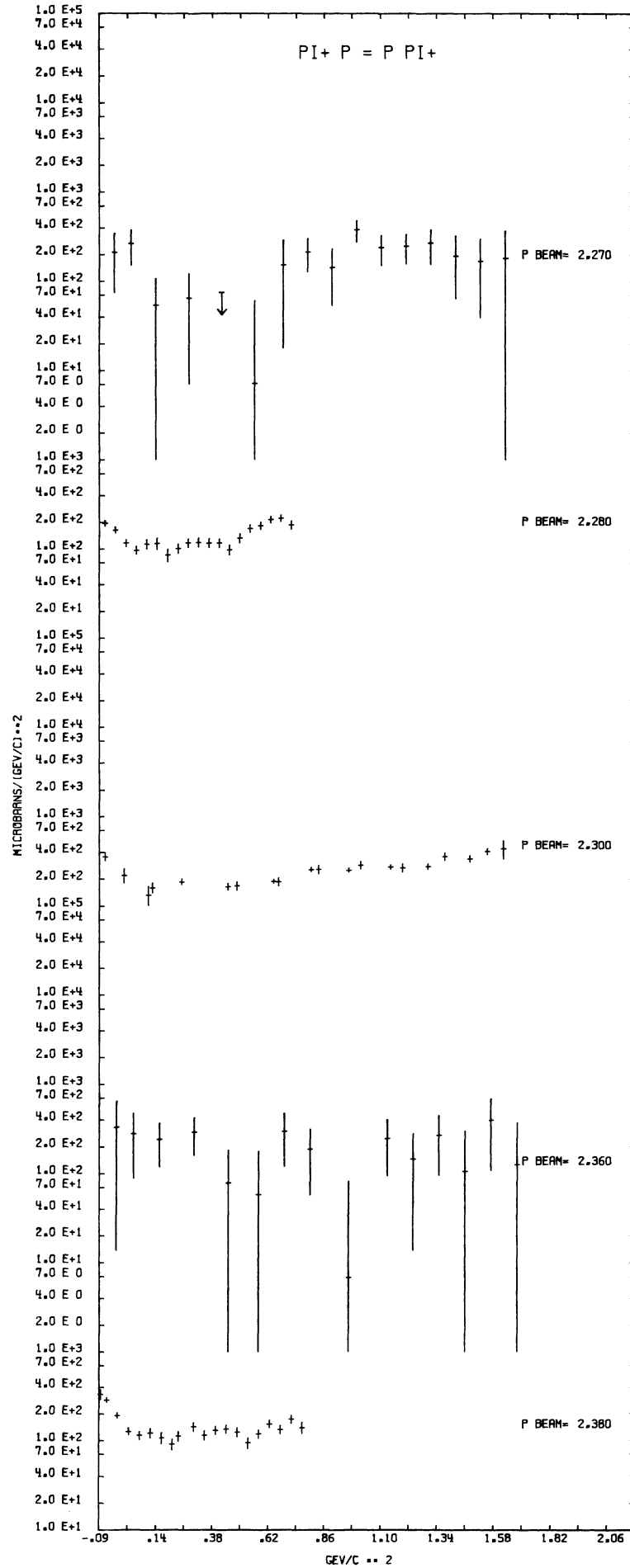


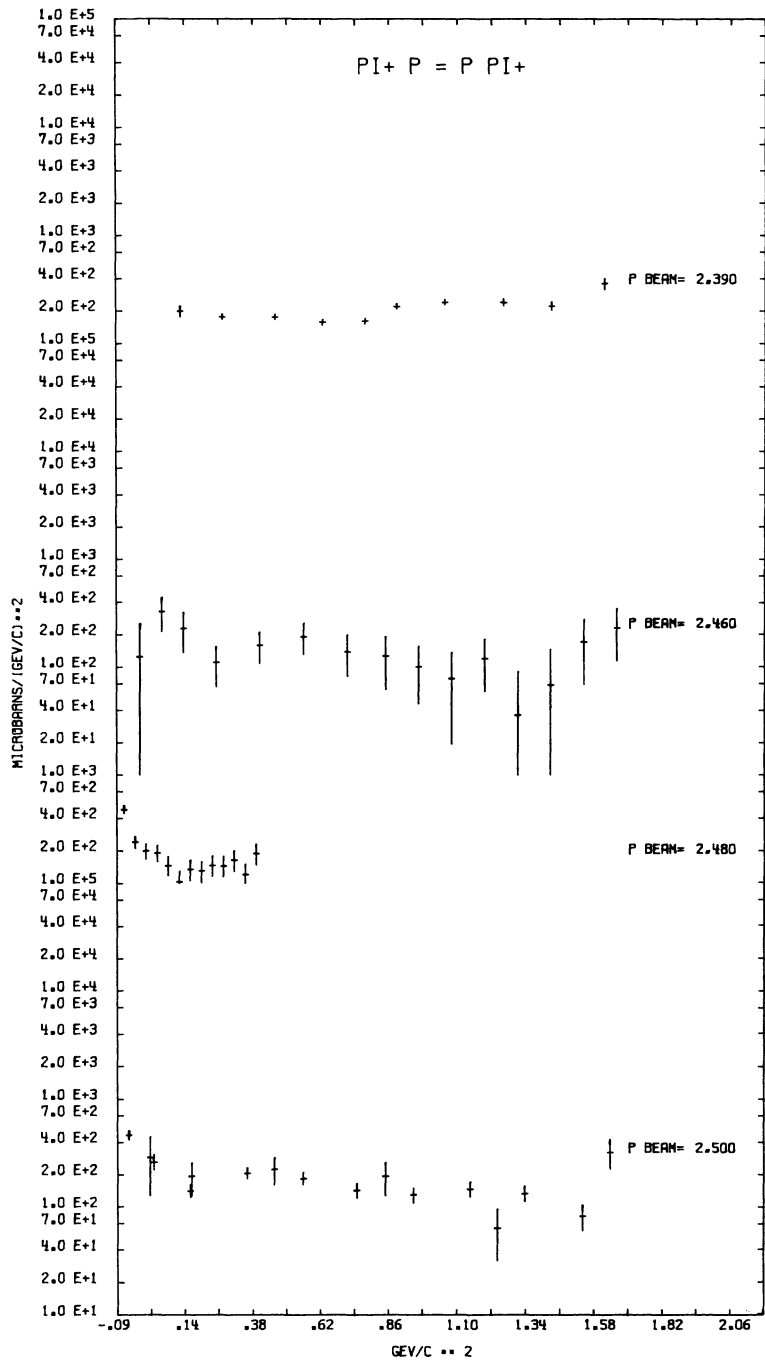


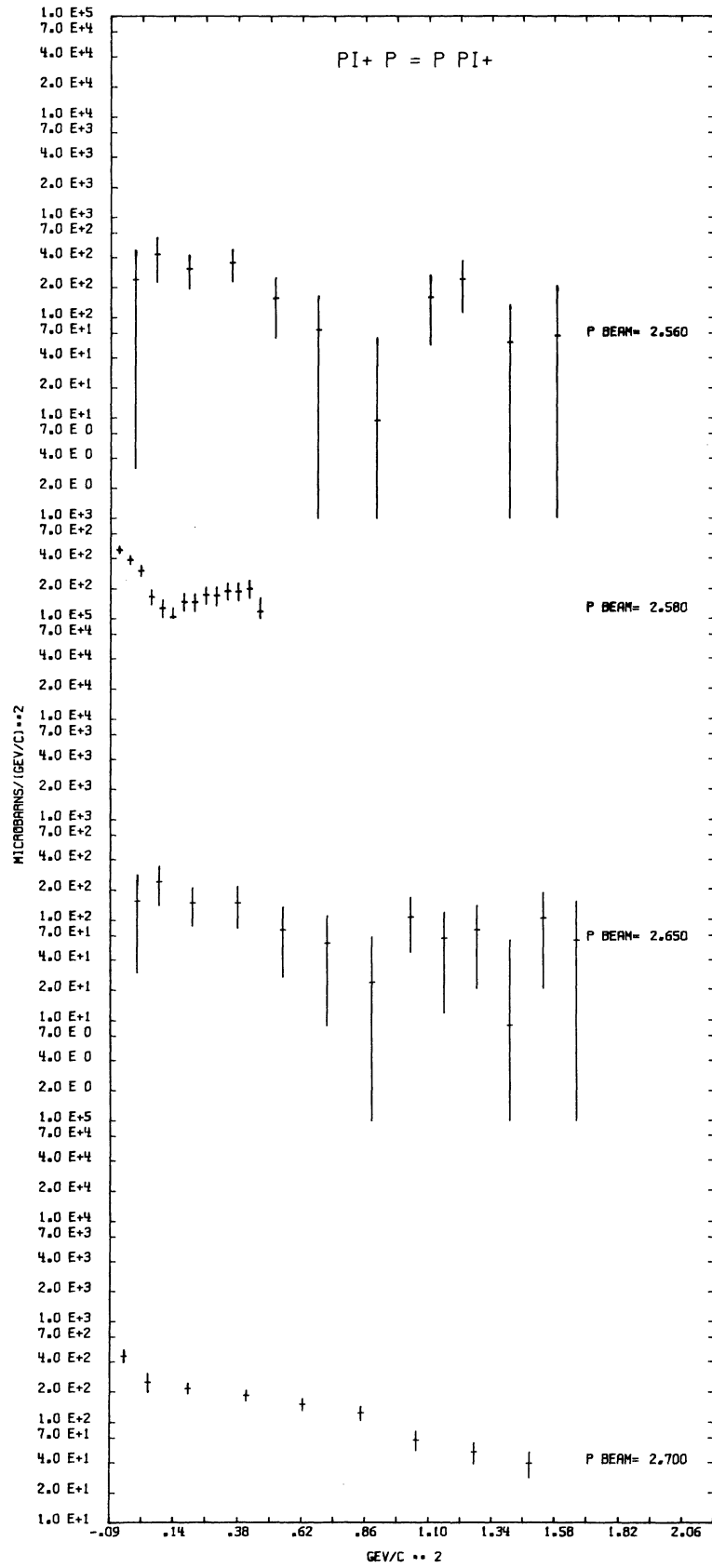


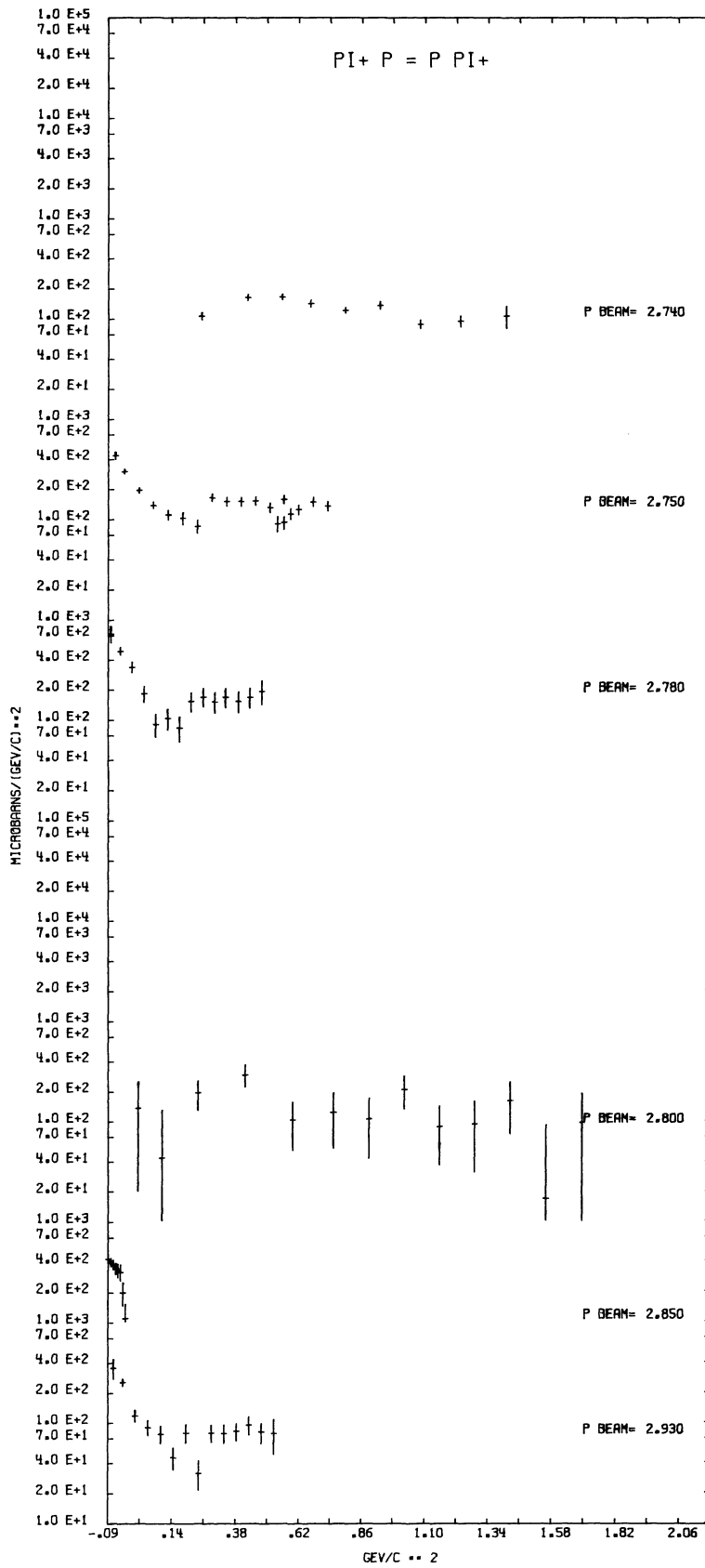


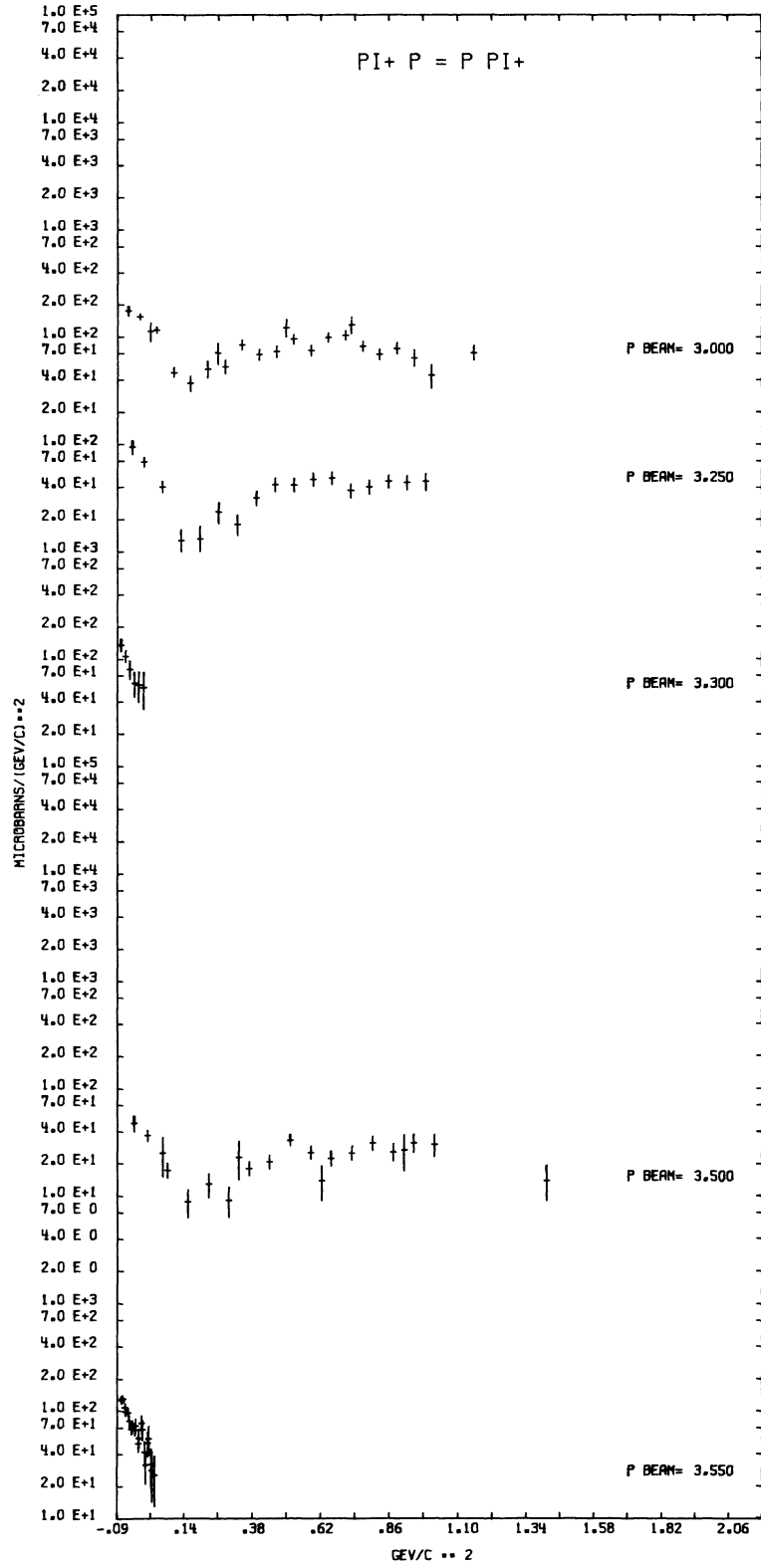


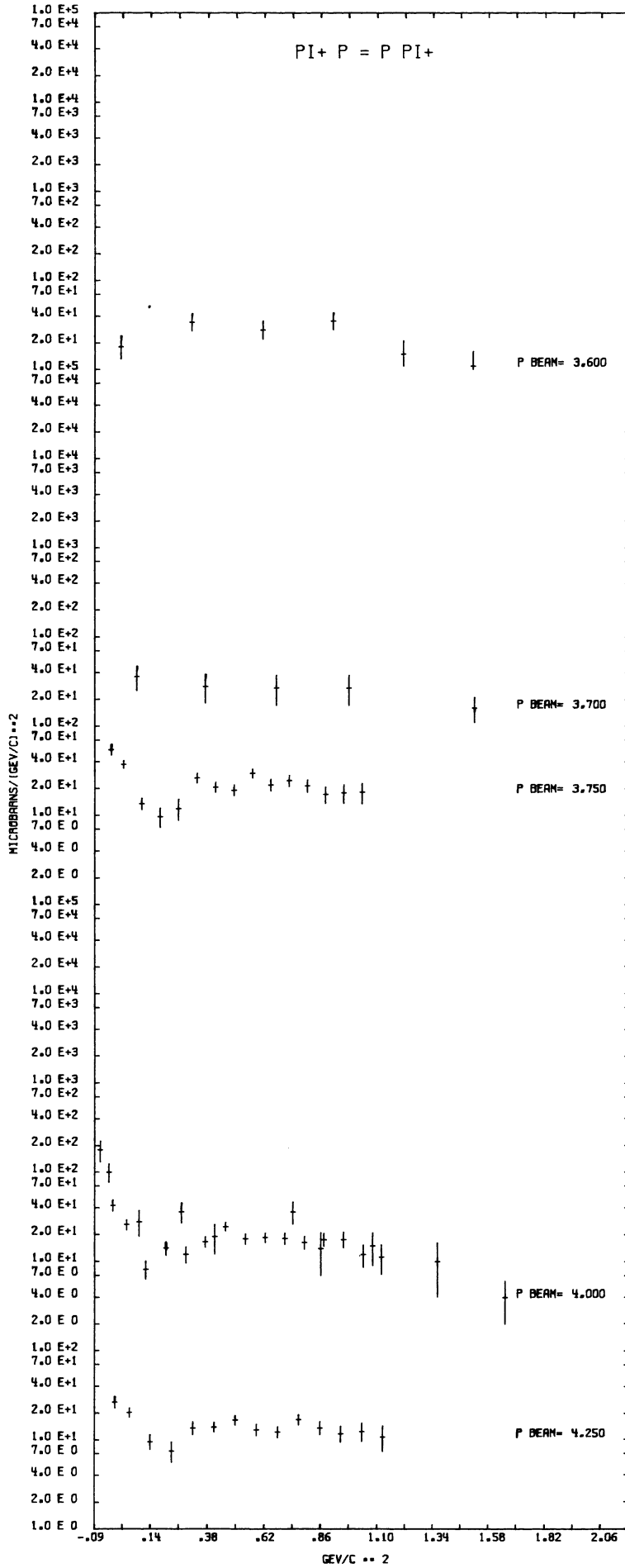


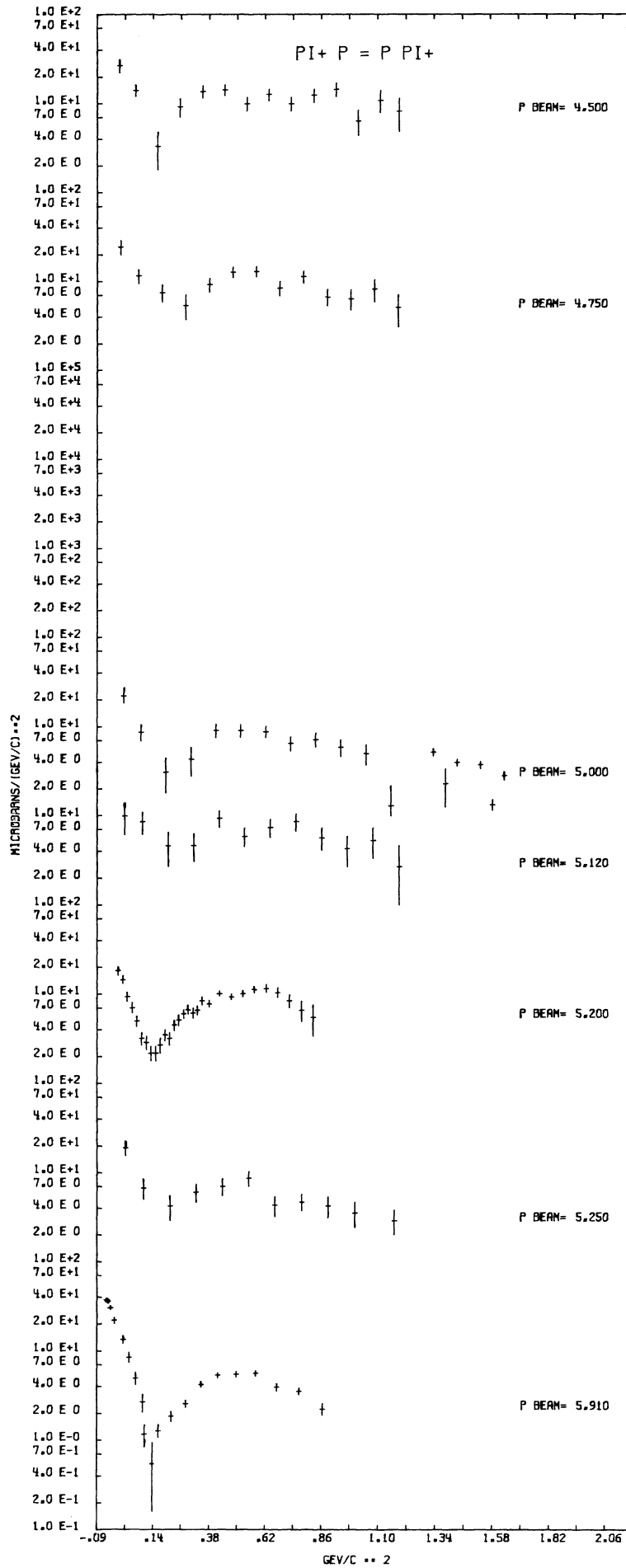




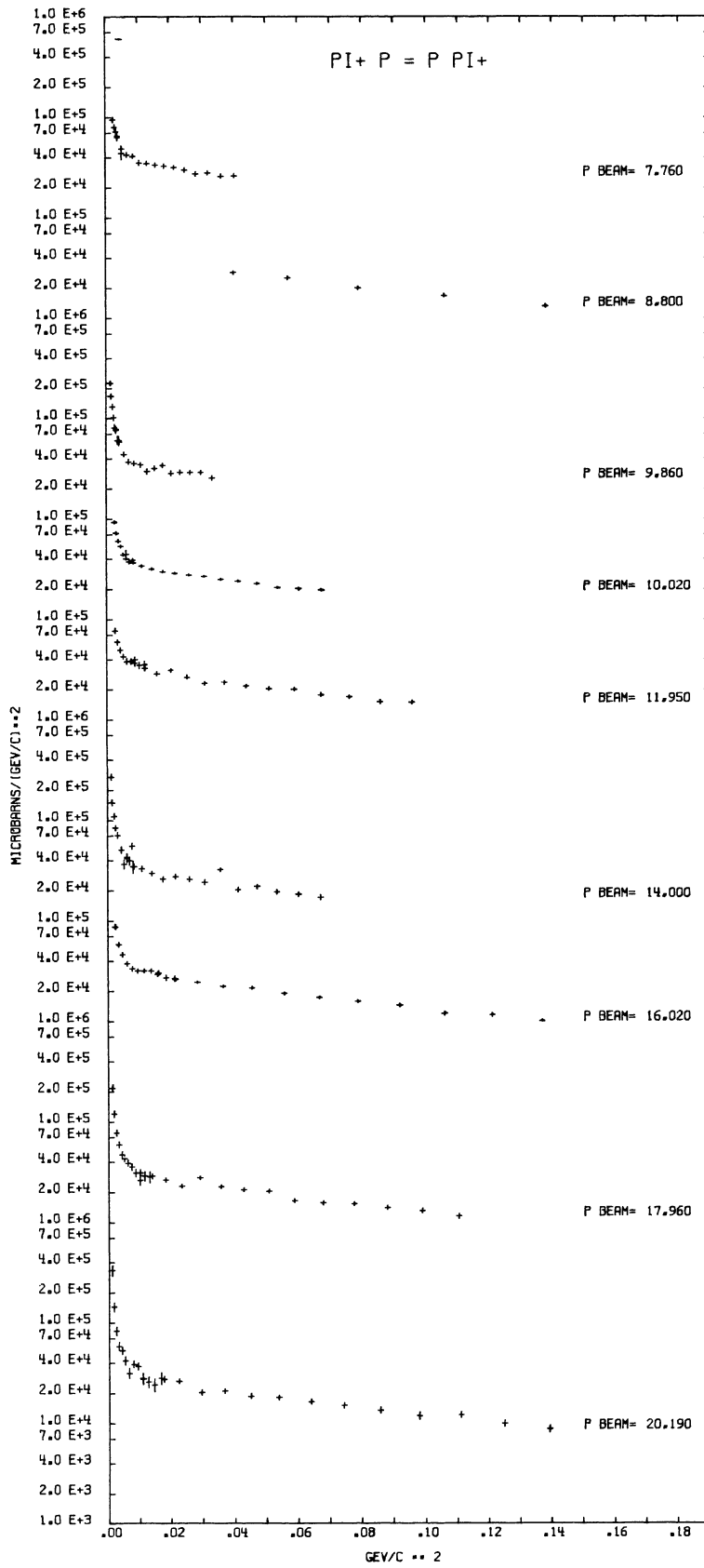




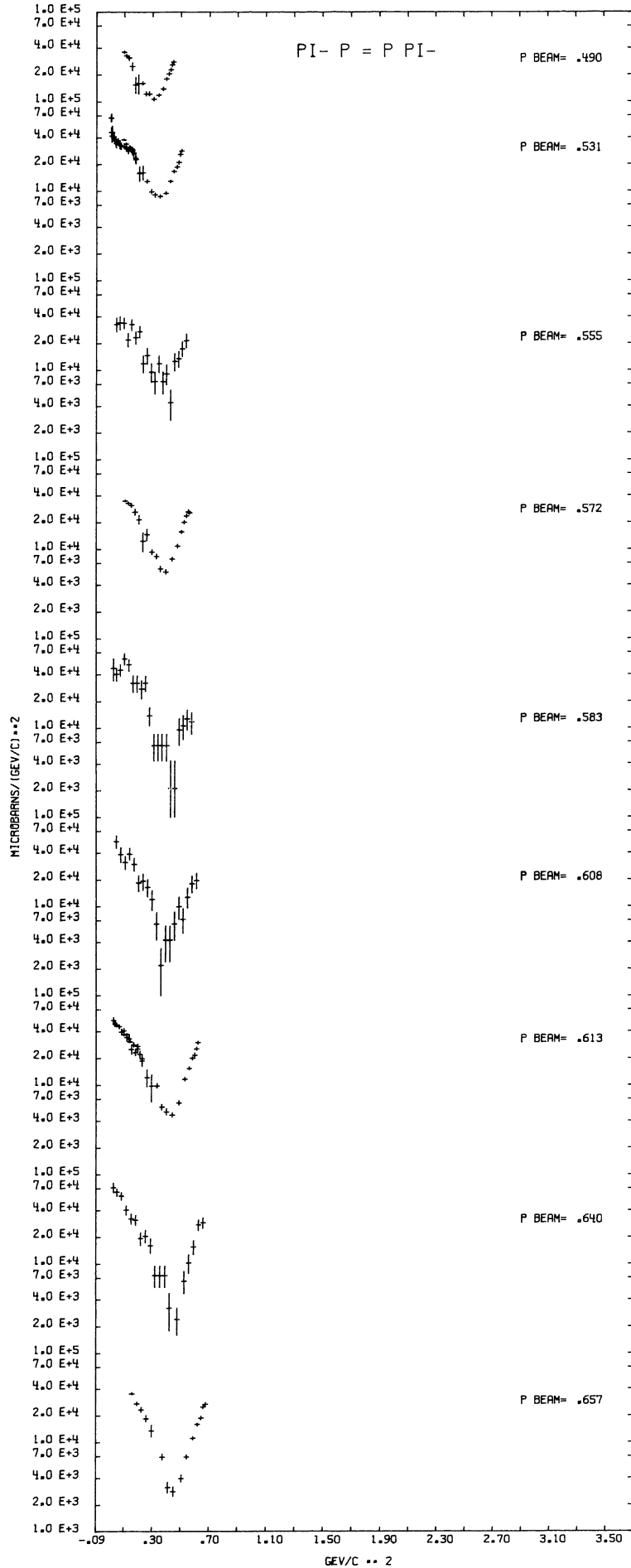


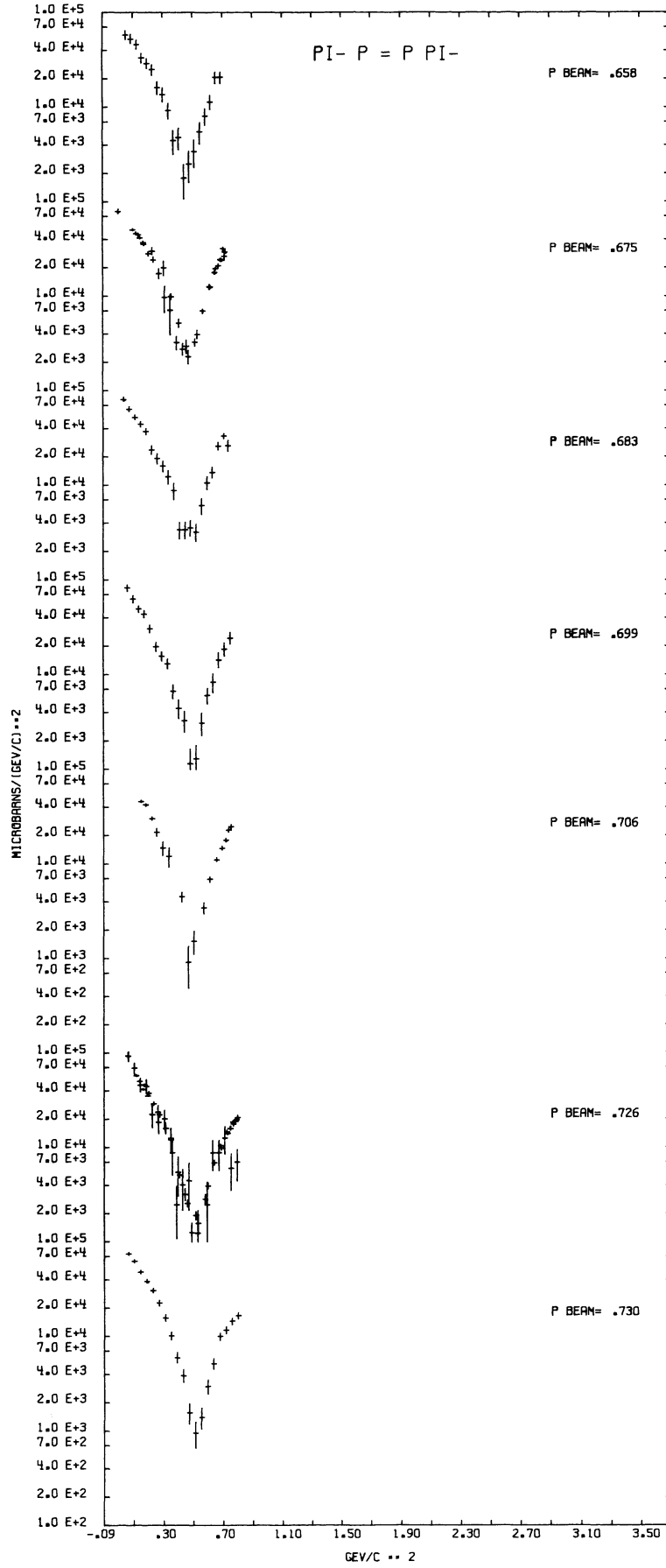


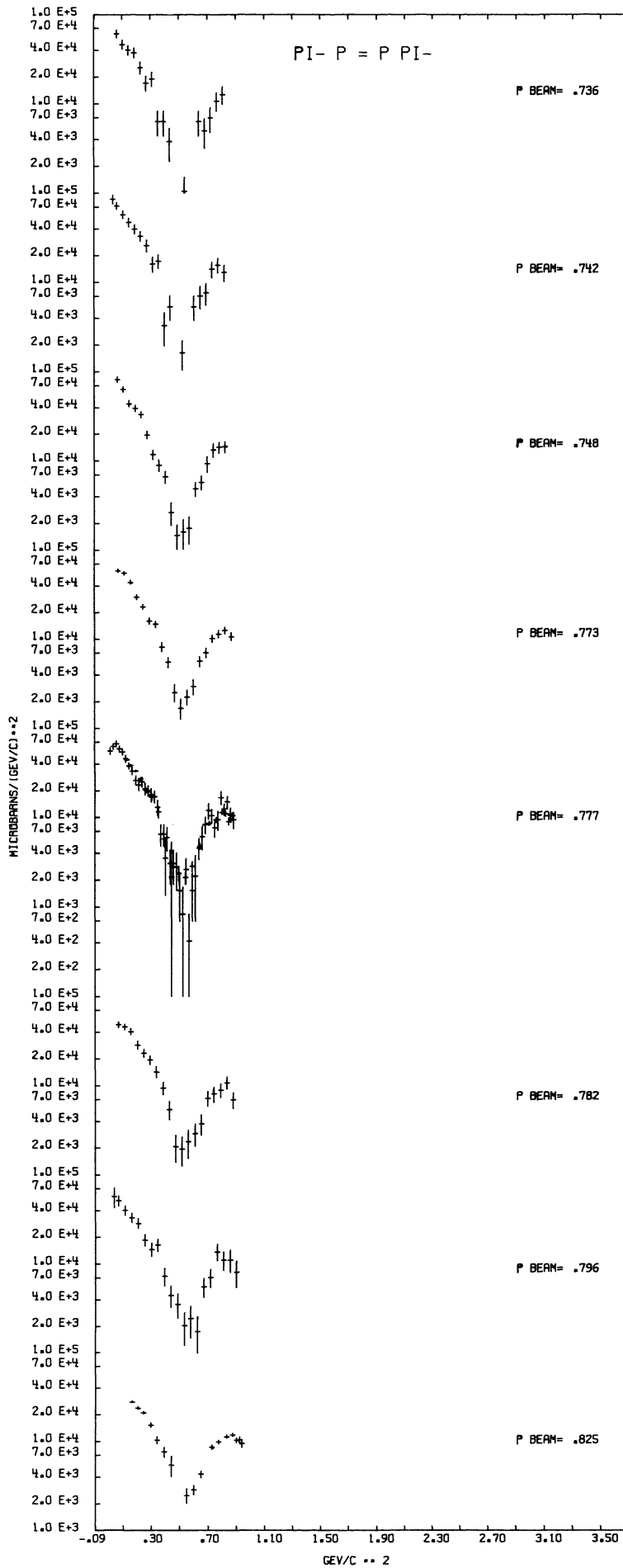
π^+ p ELASTIC COULOMB INTERF. REGION

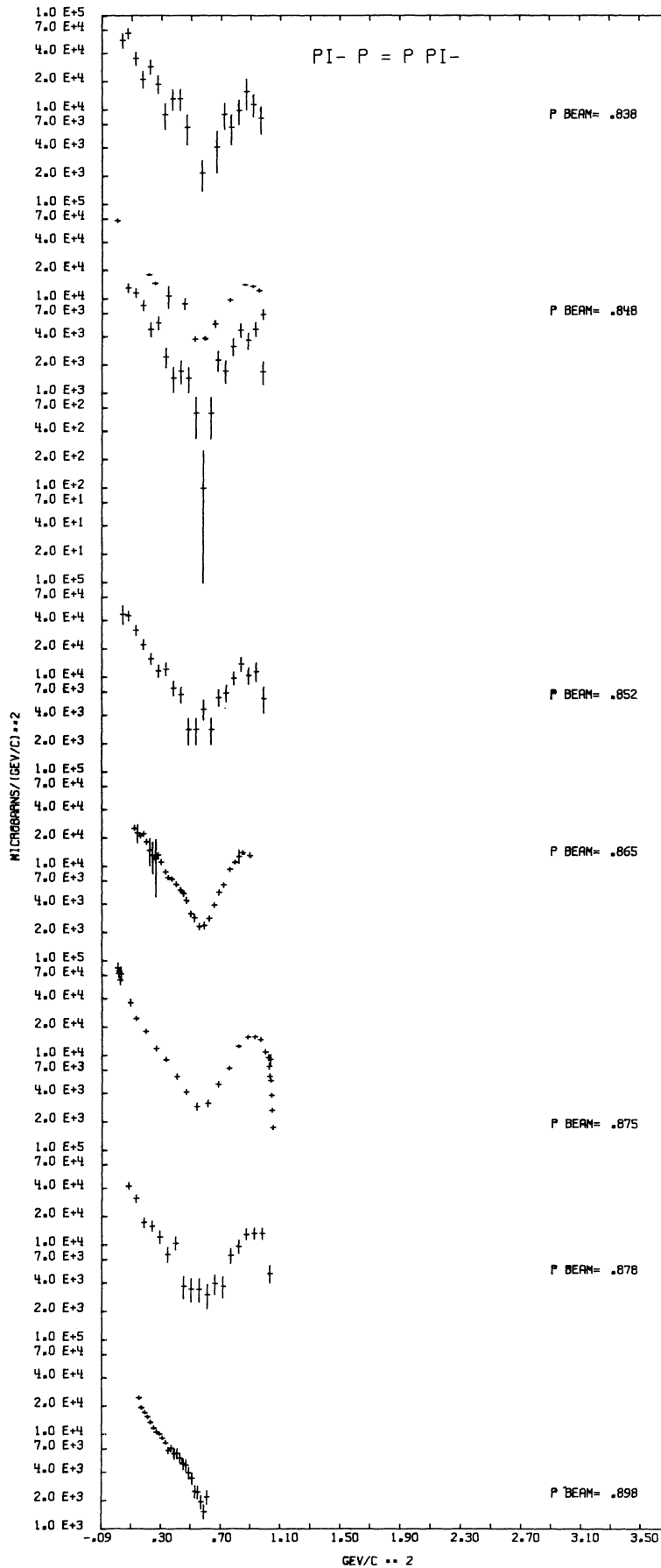


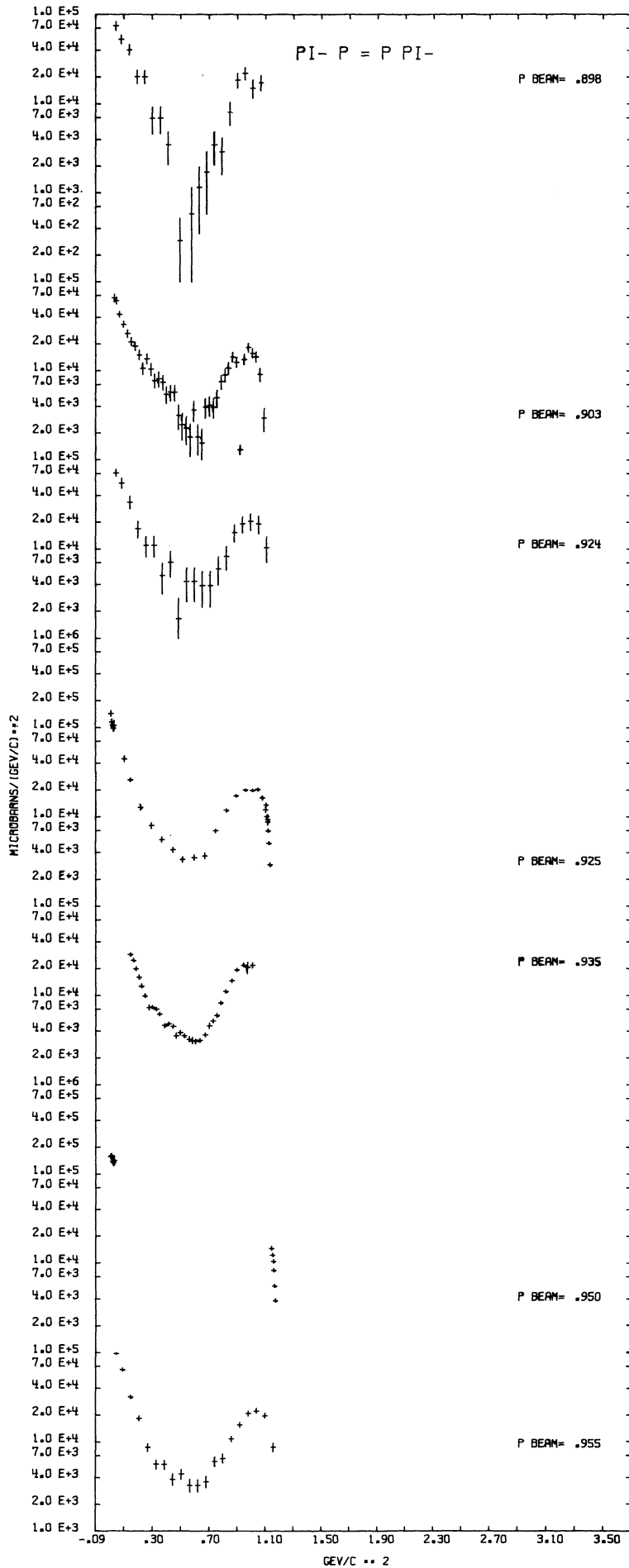
$\pi^- p$ ELASTIC

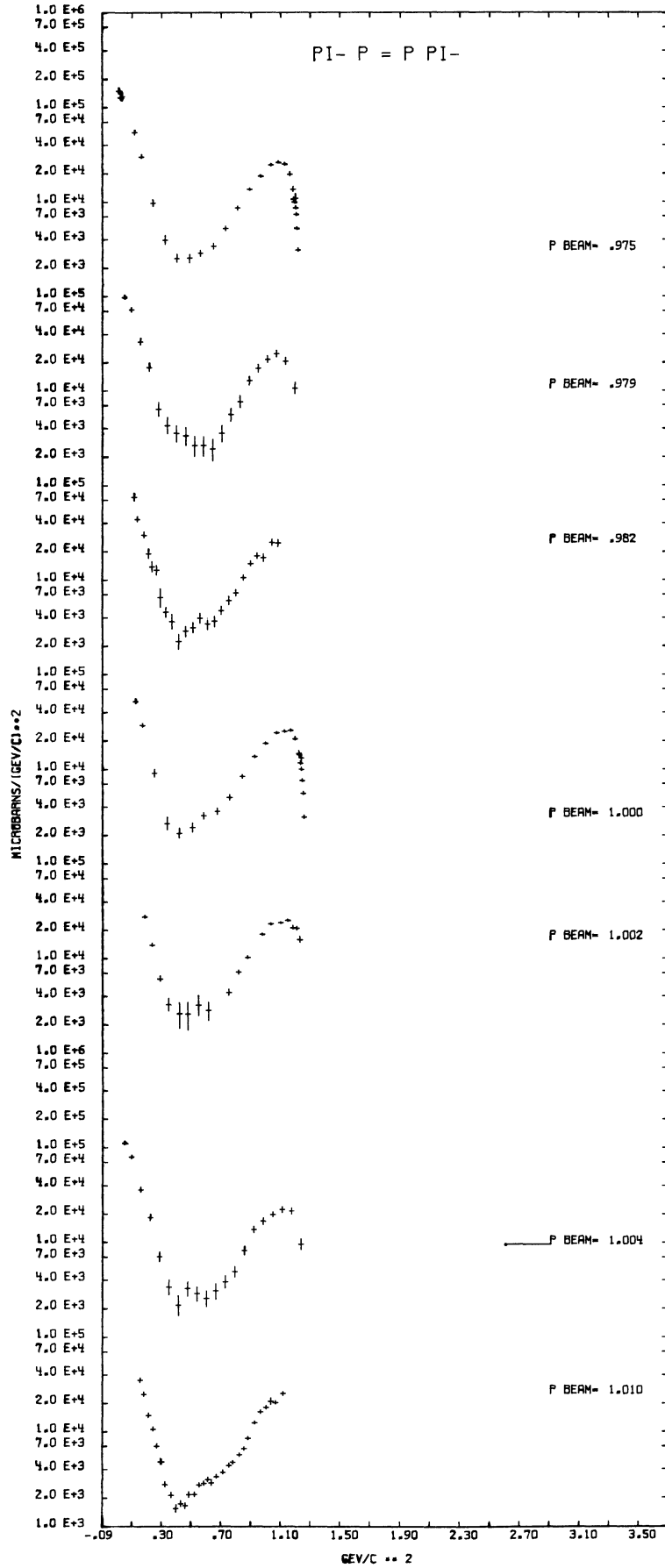


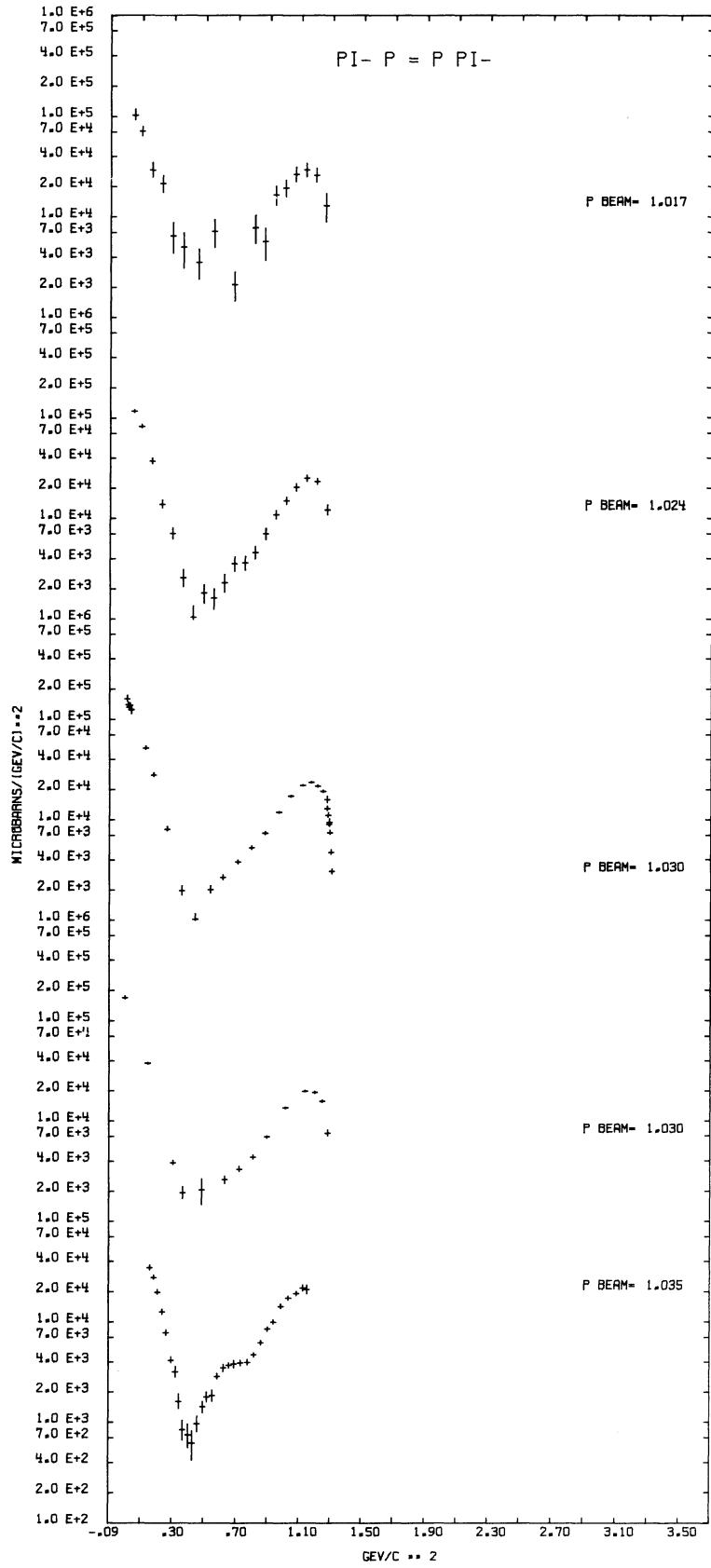


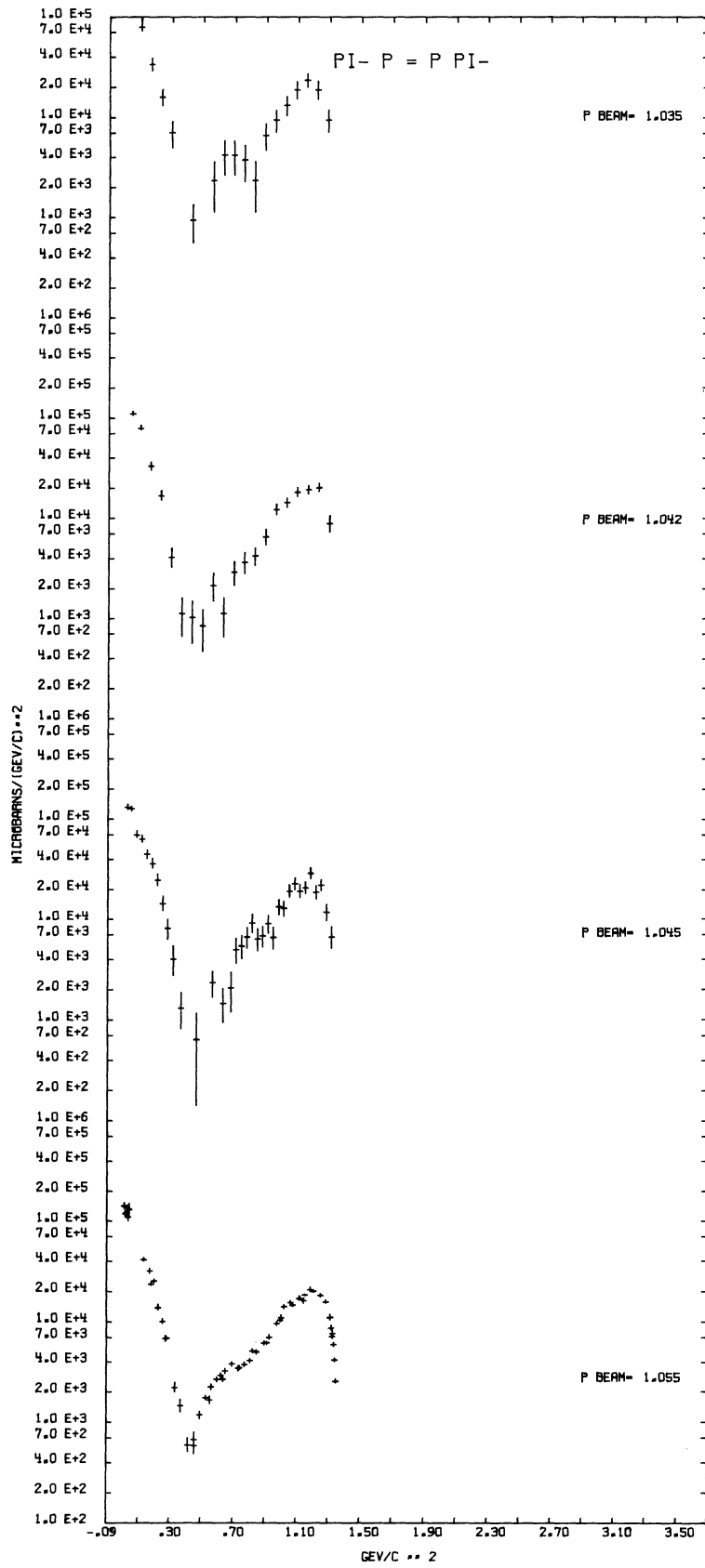


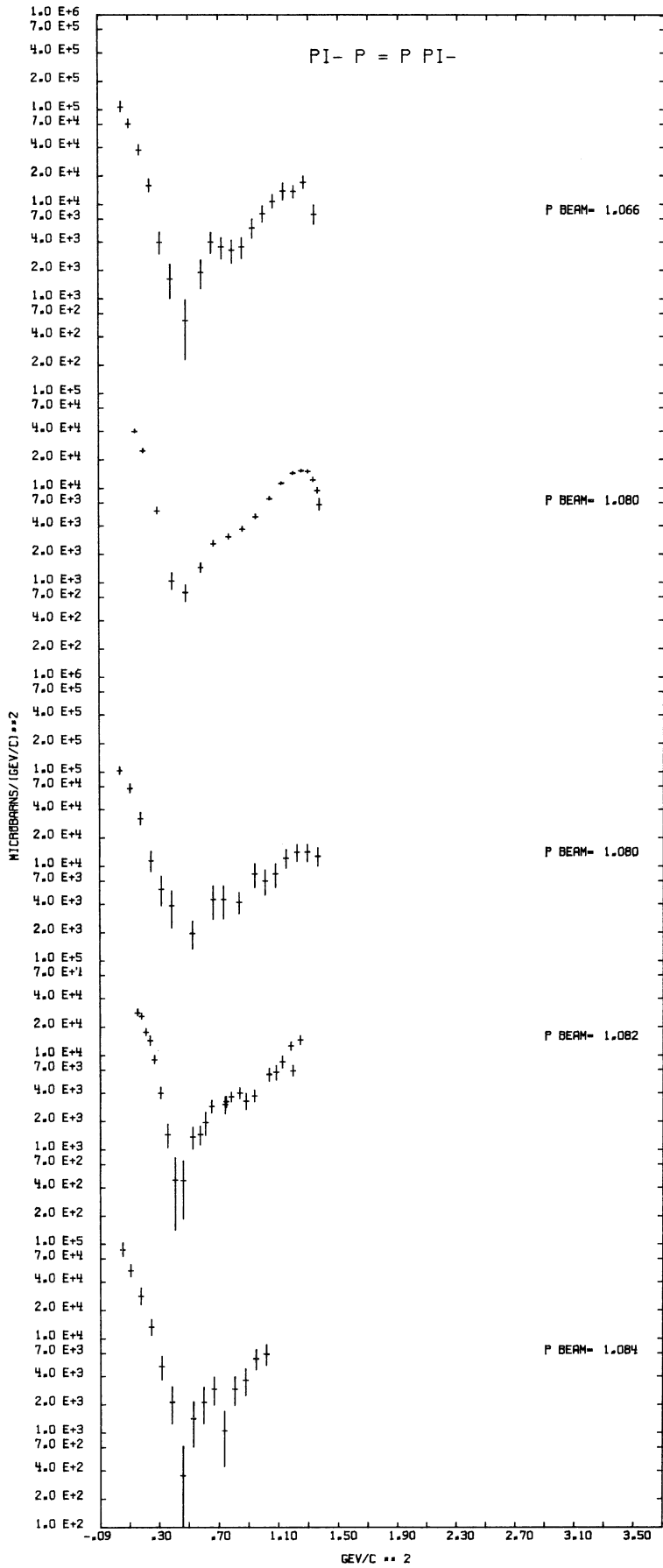


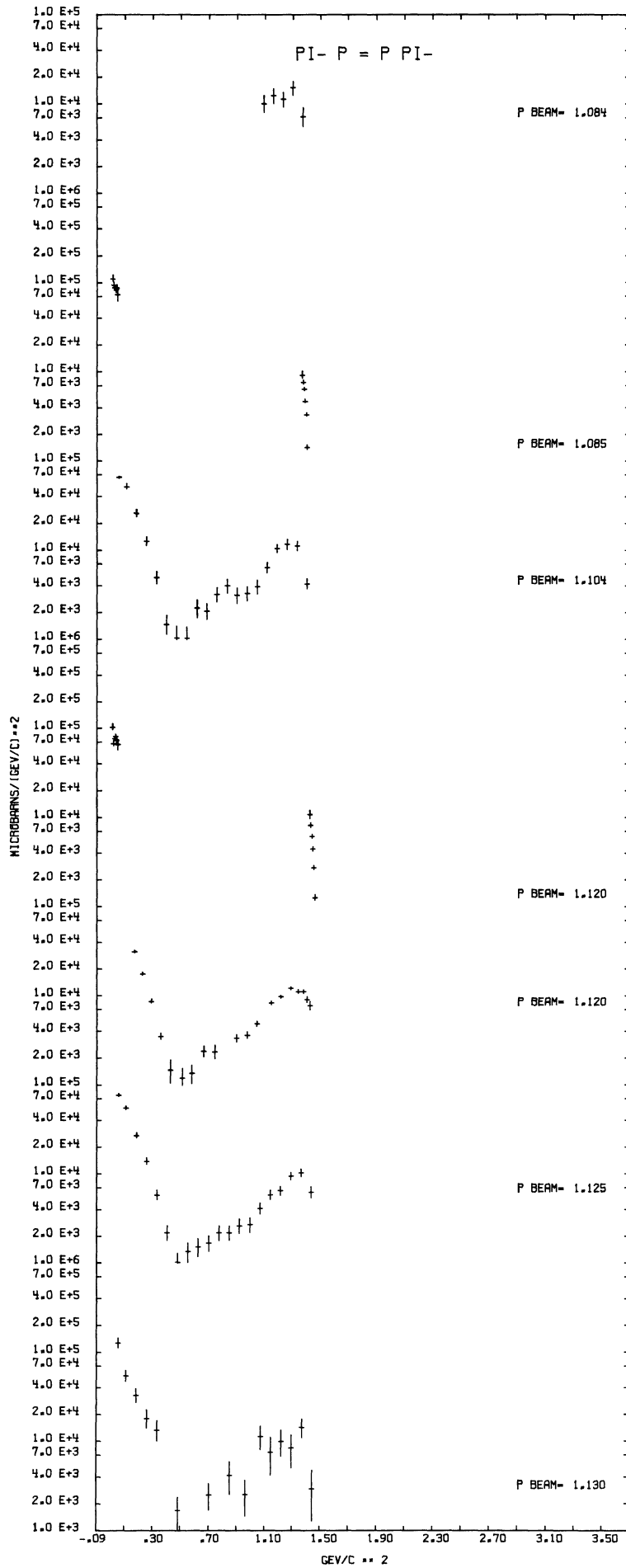


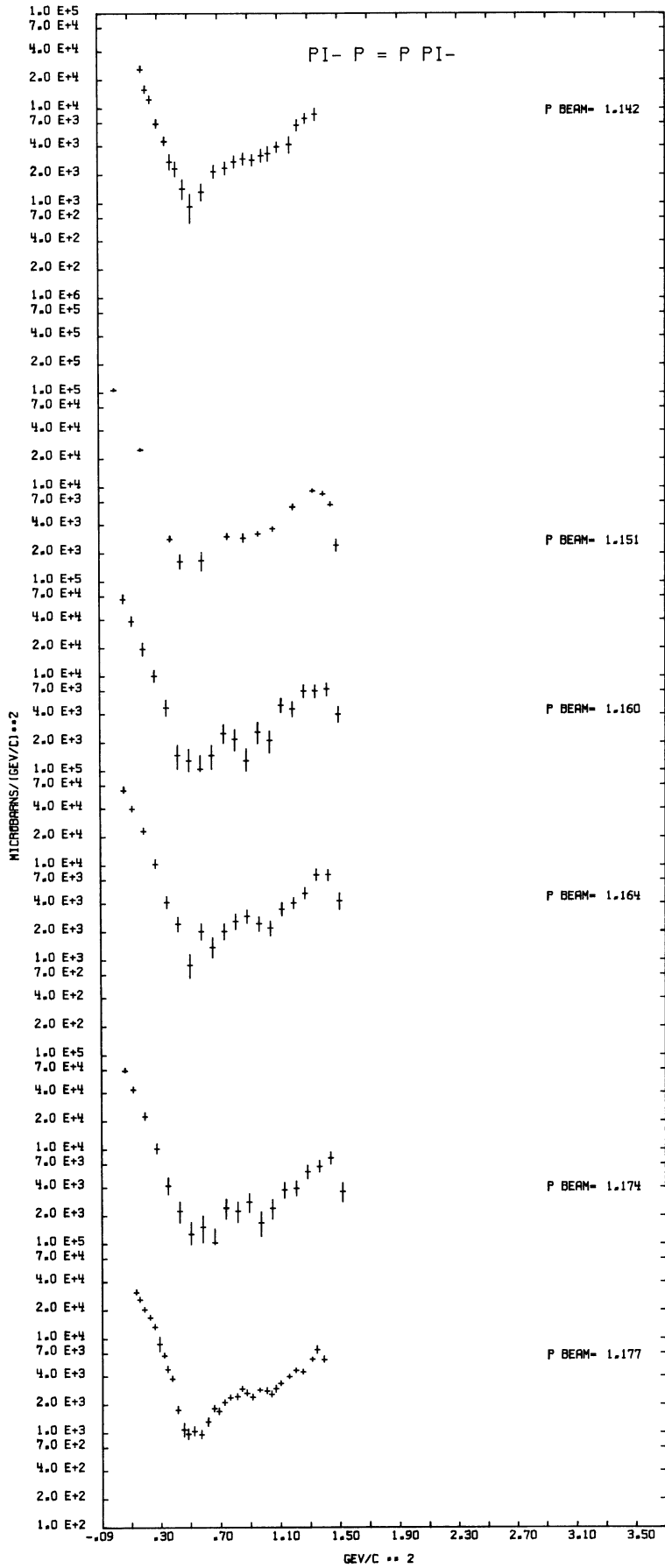


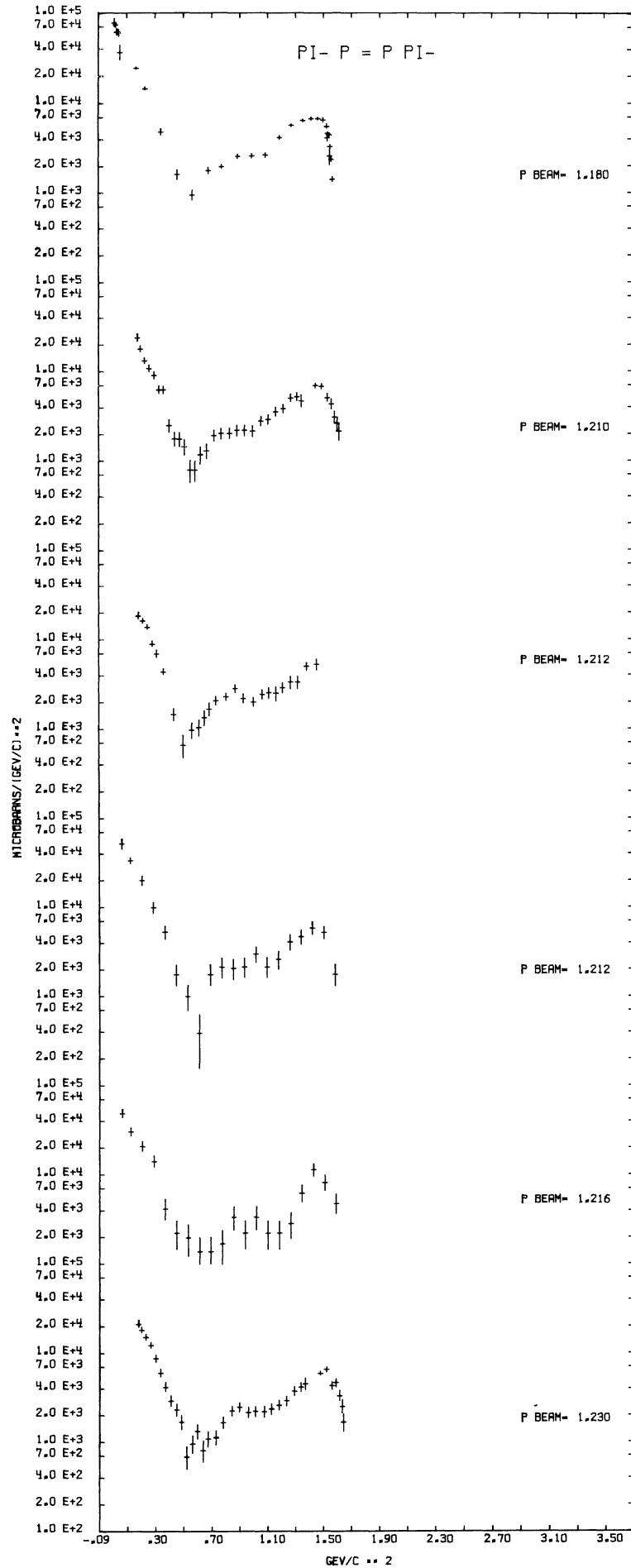


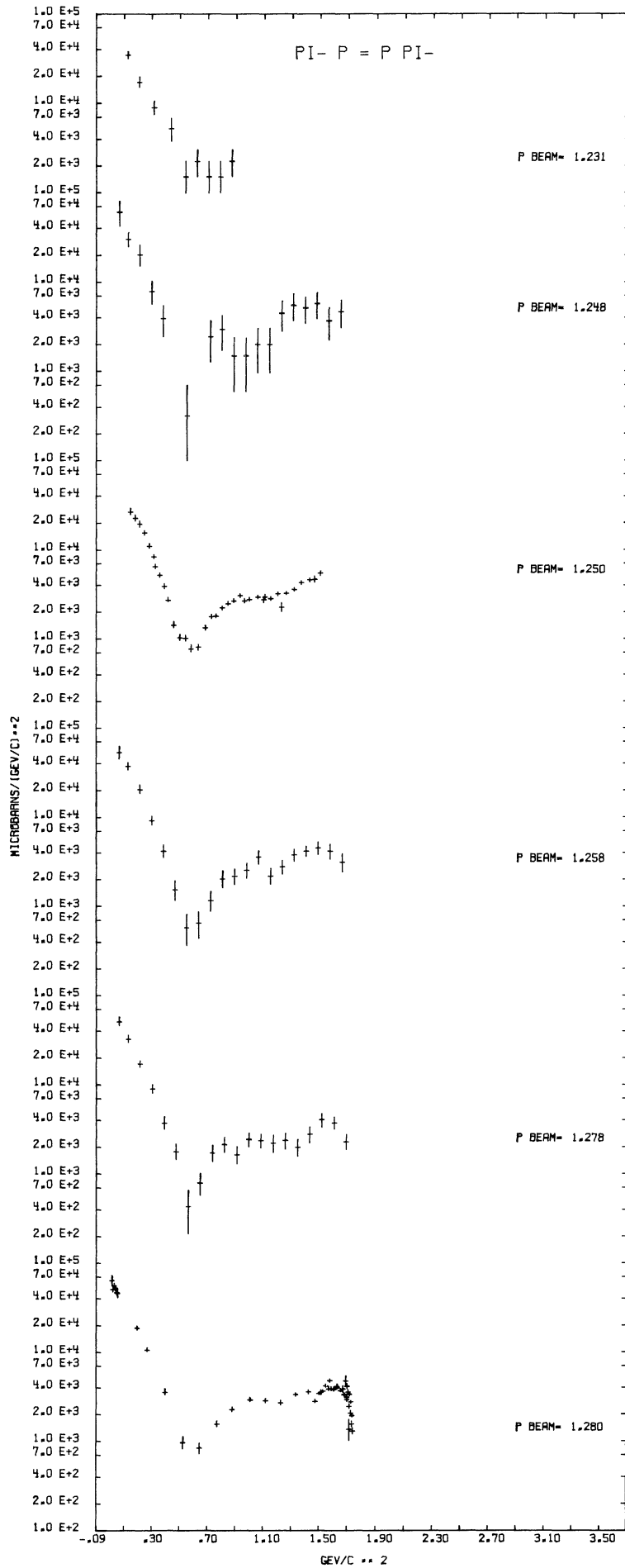


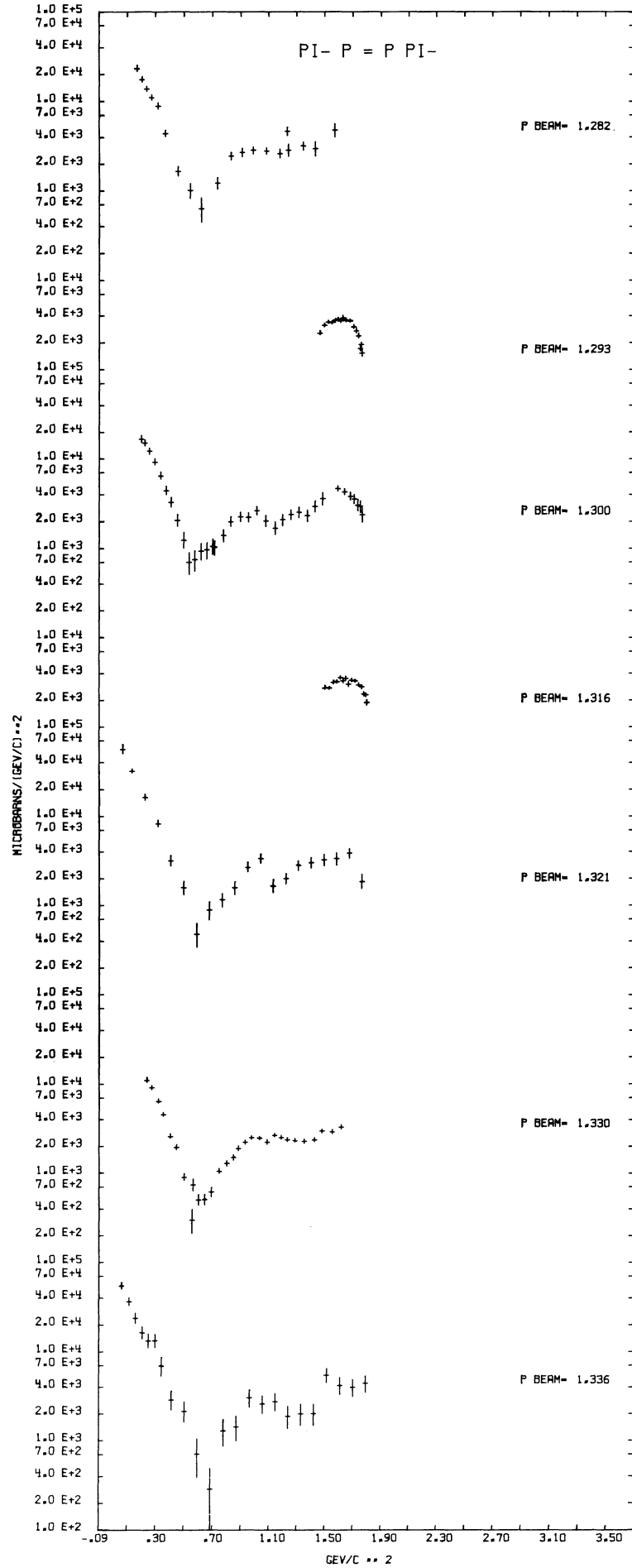


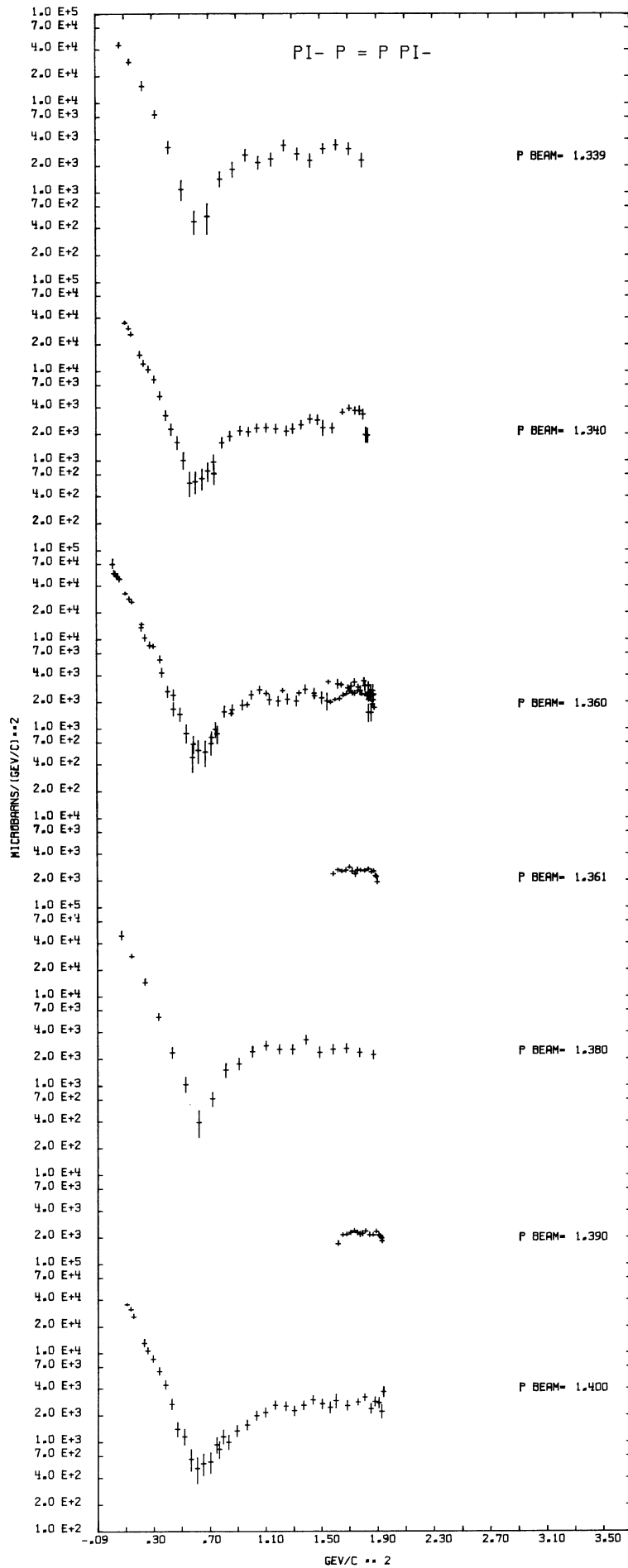


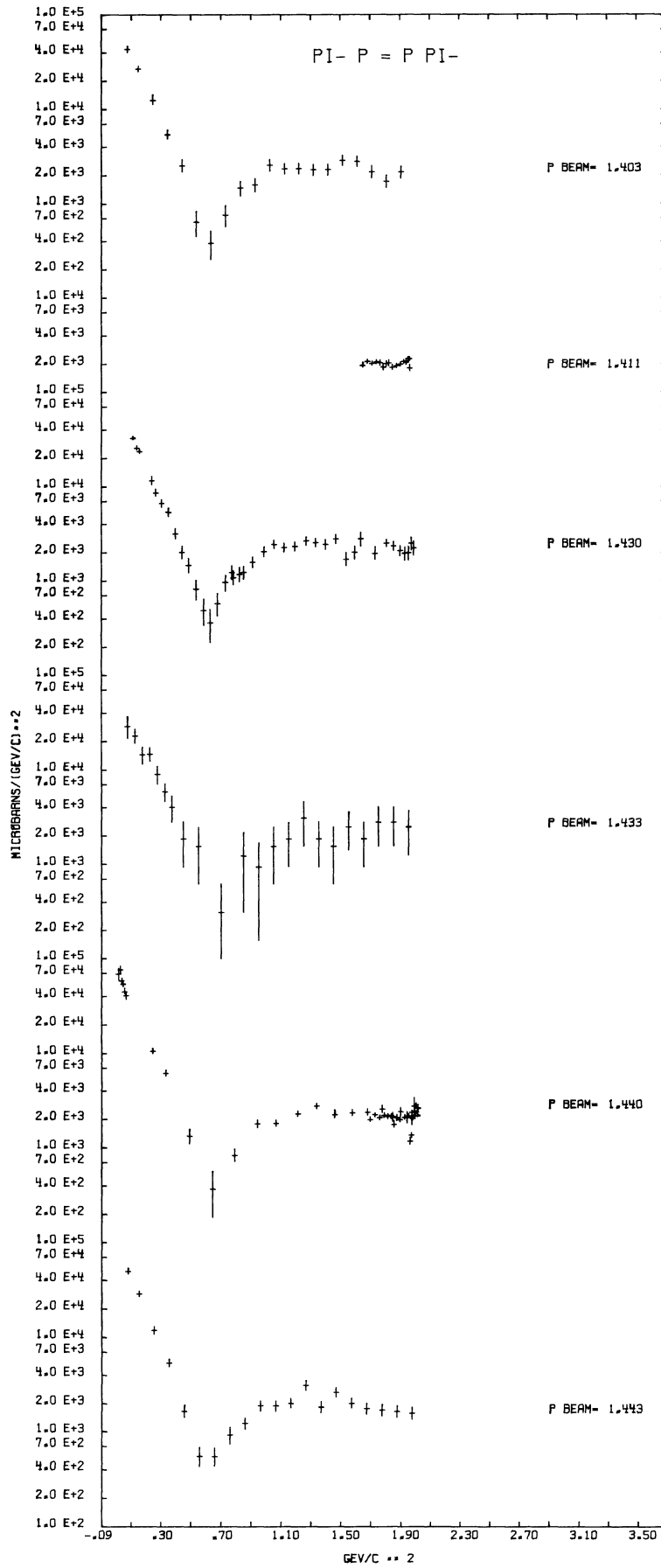


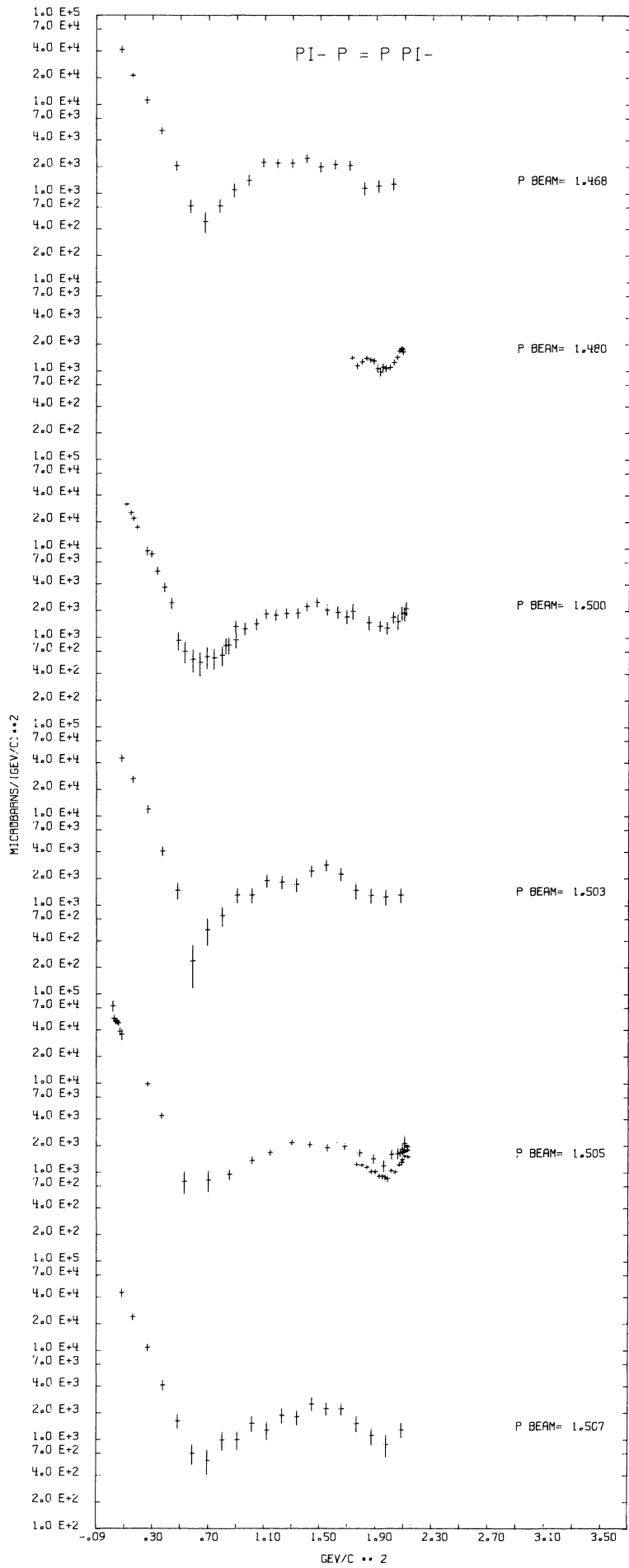


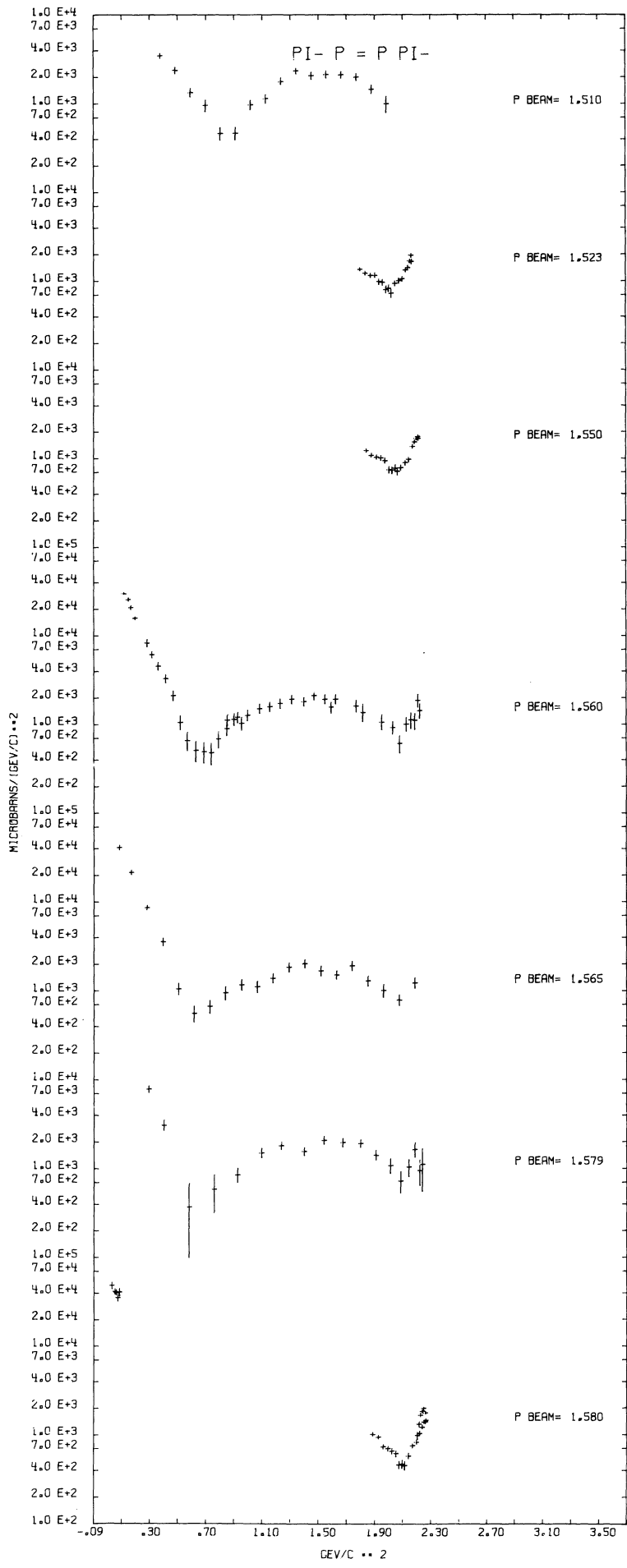


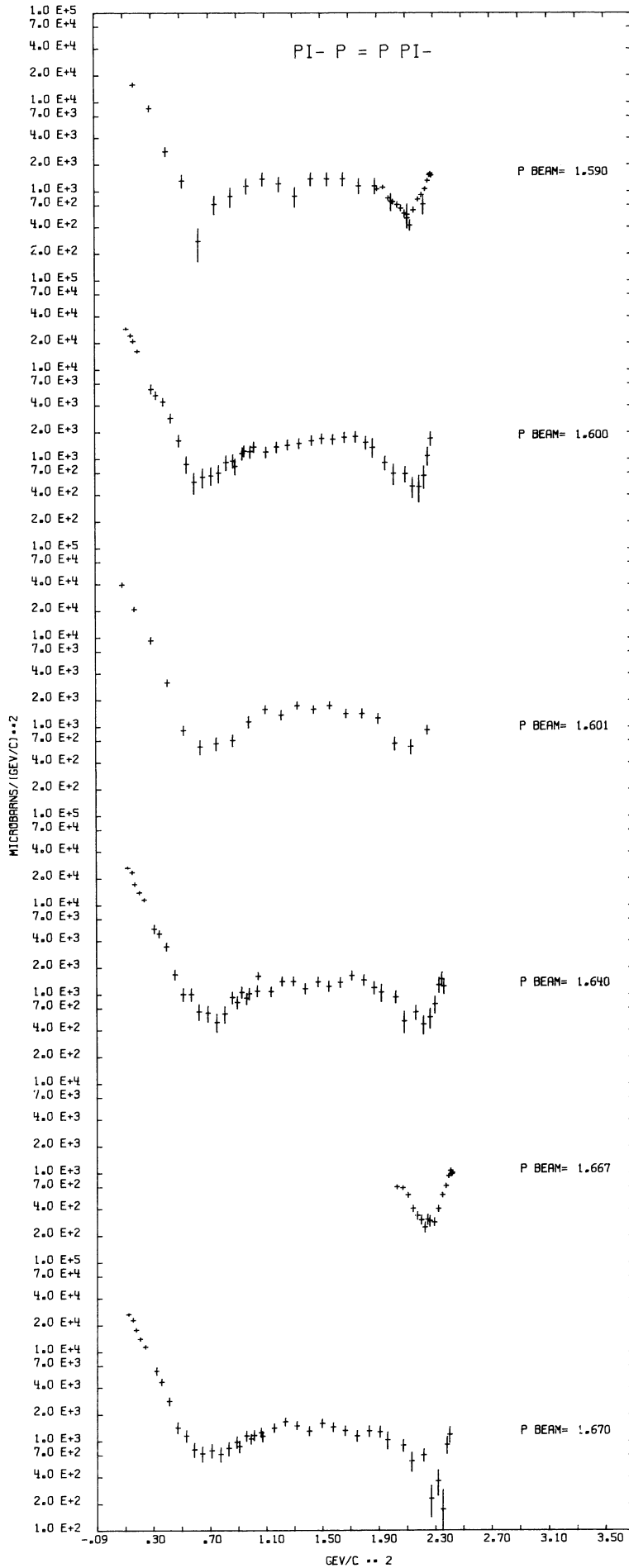


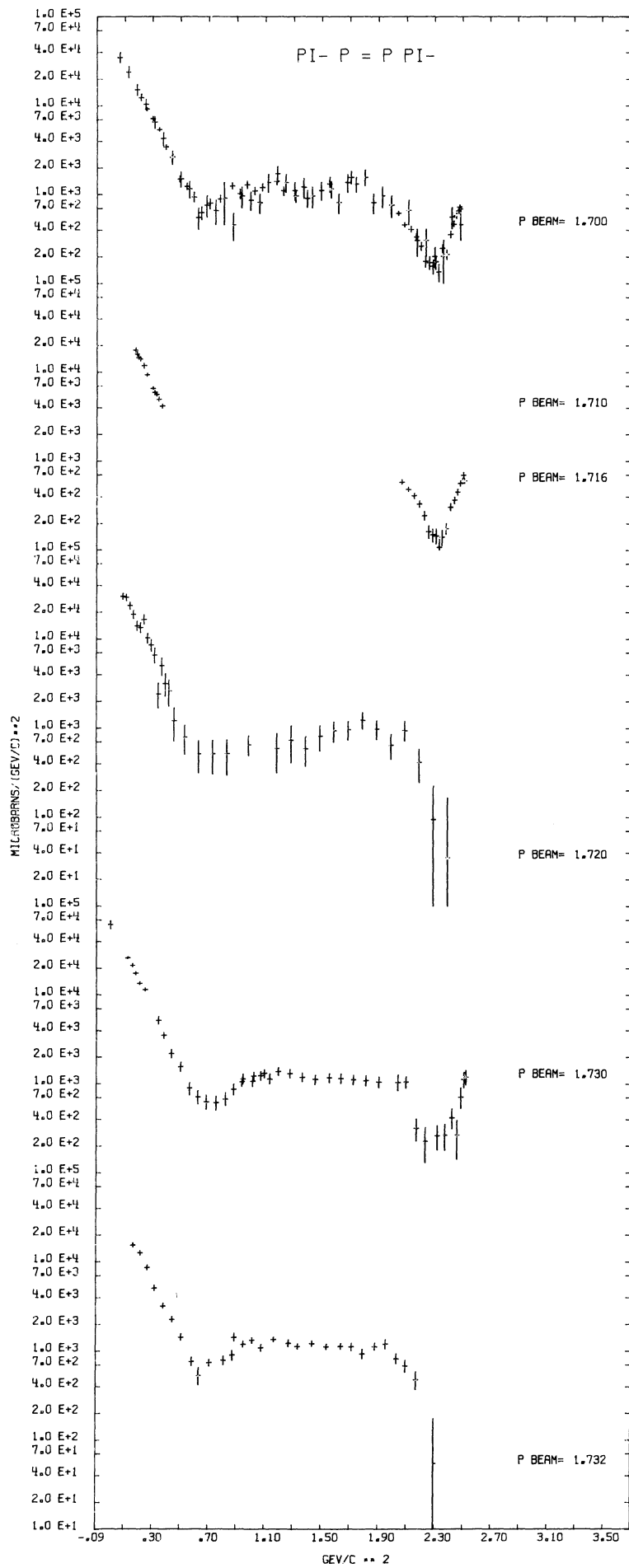


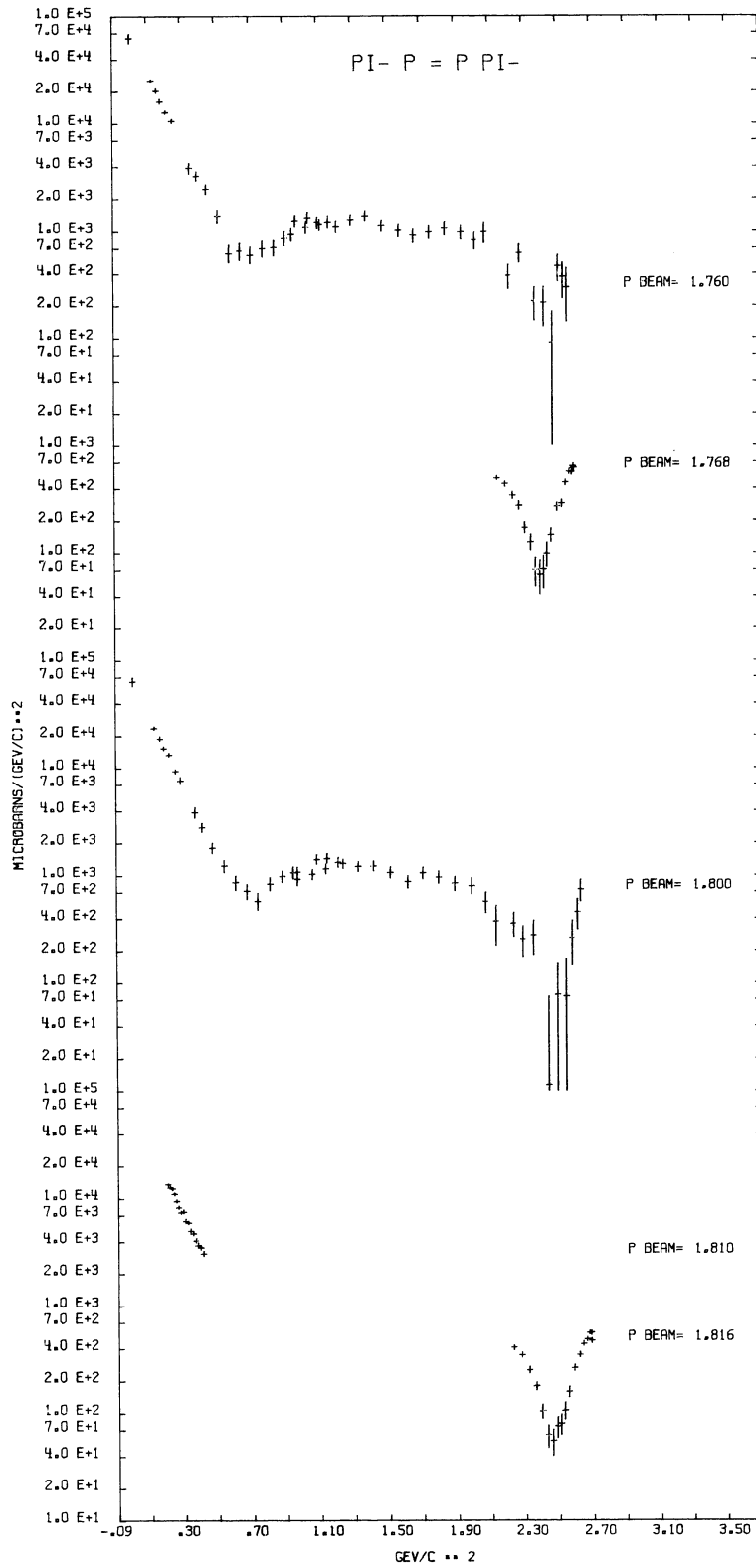


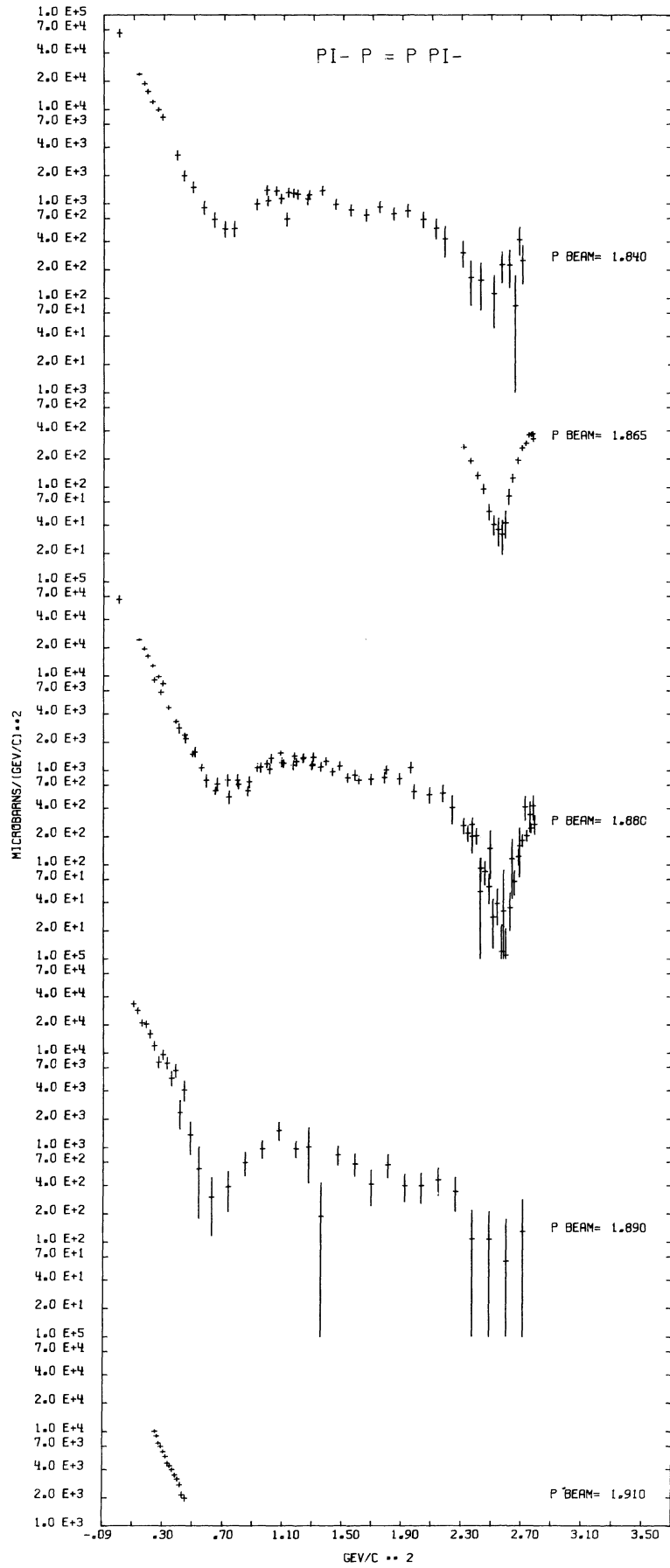


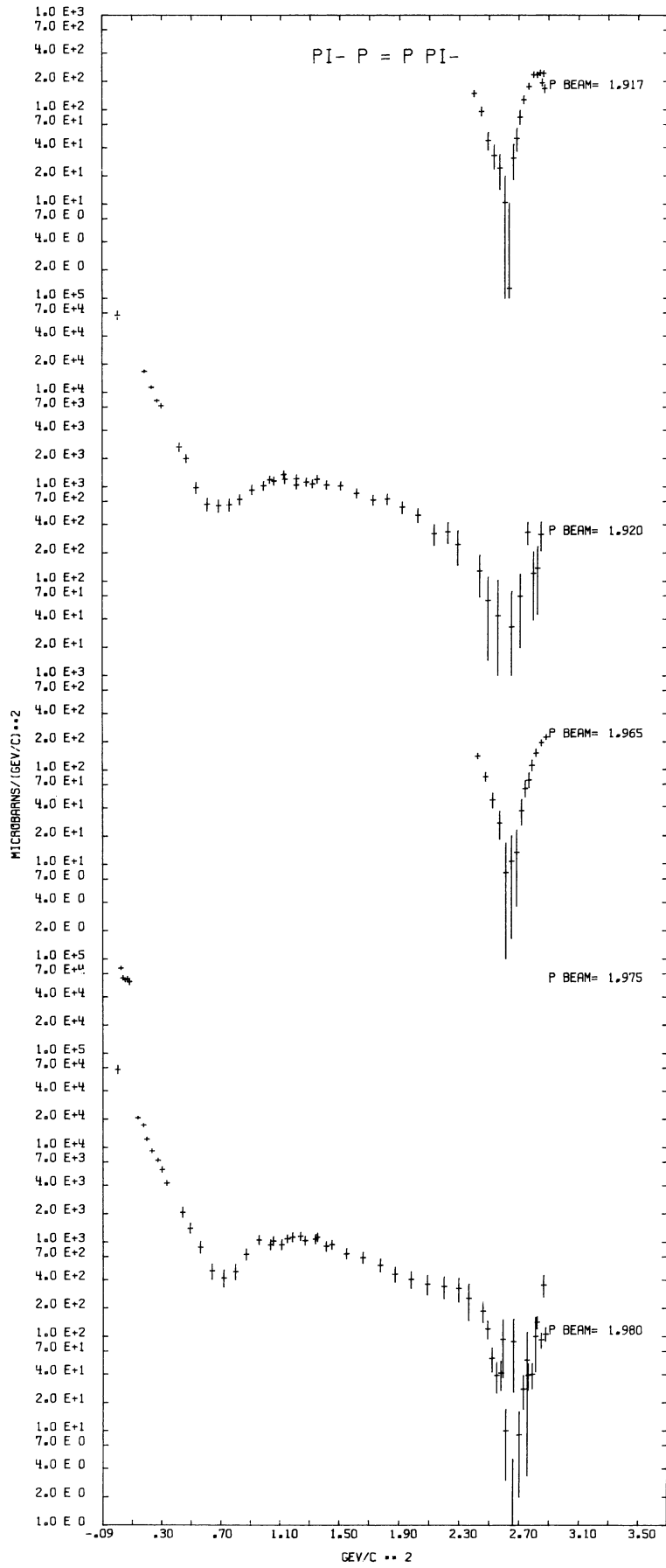


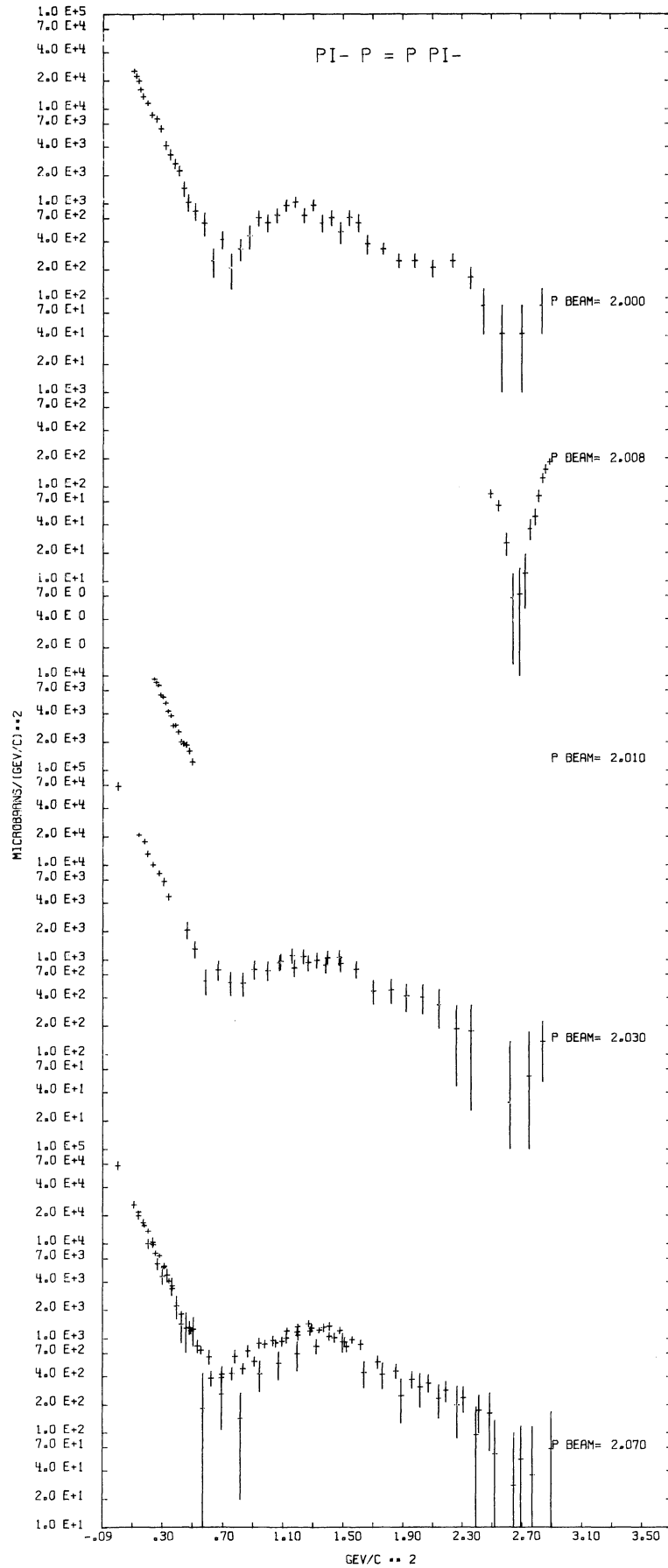


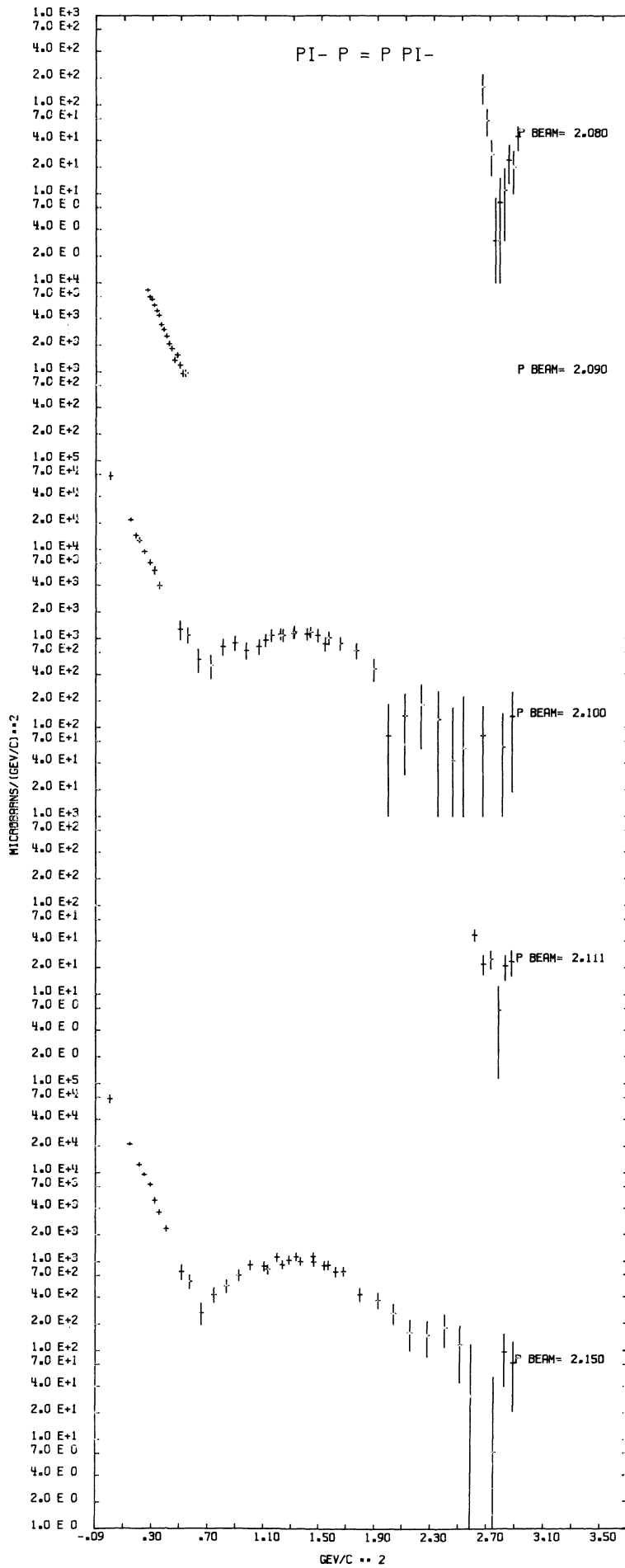


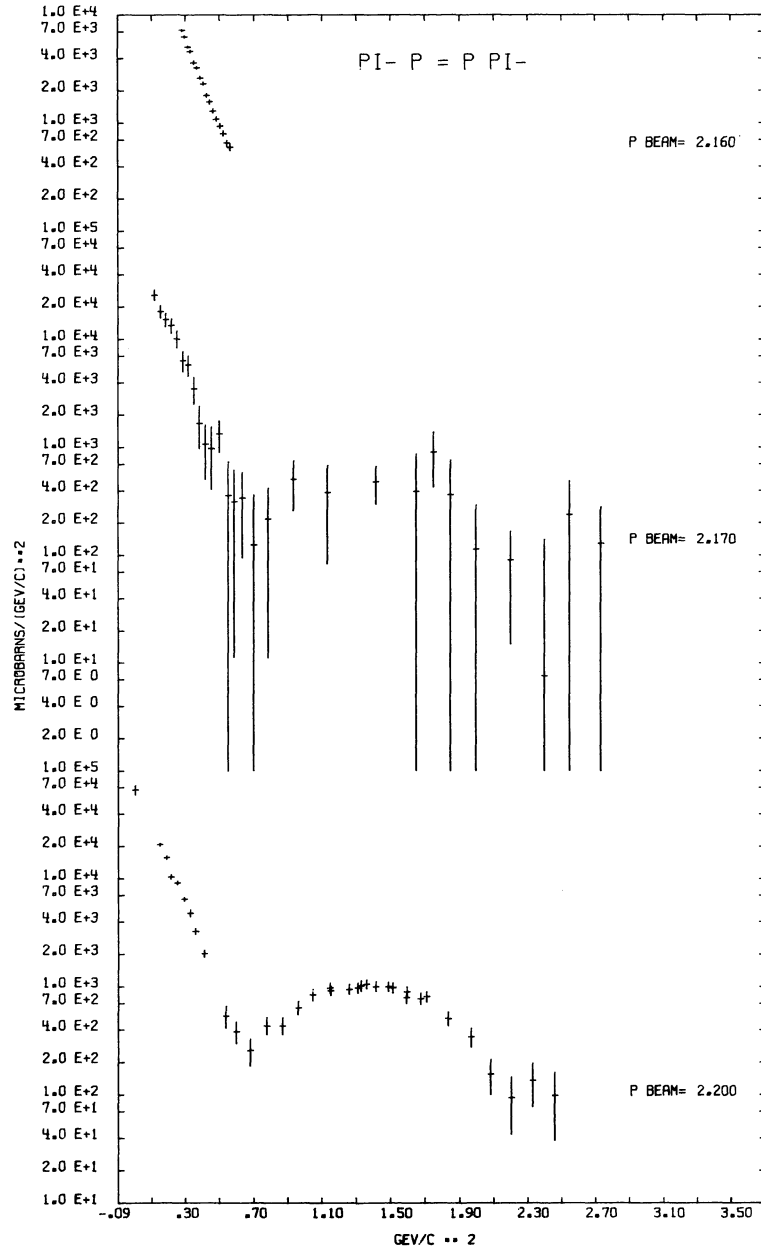


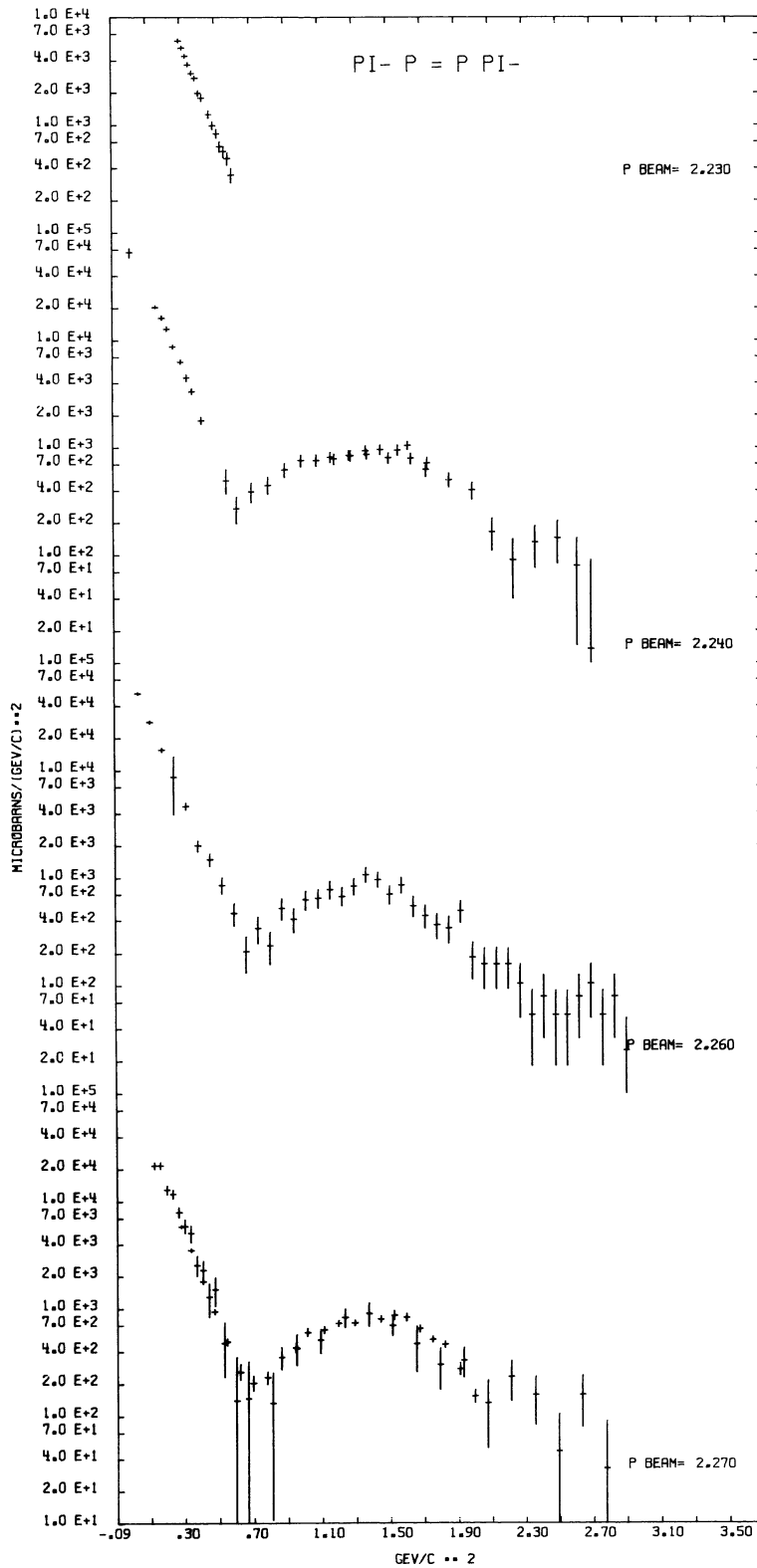


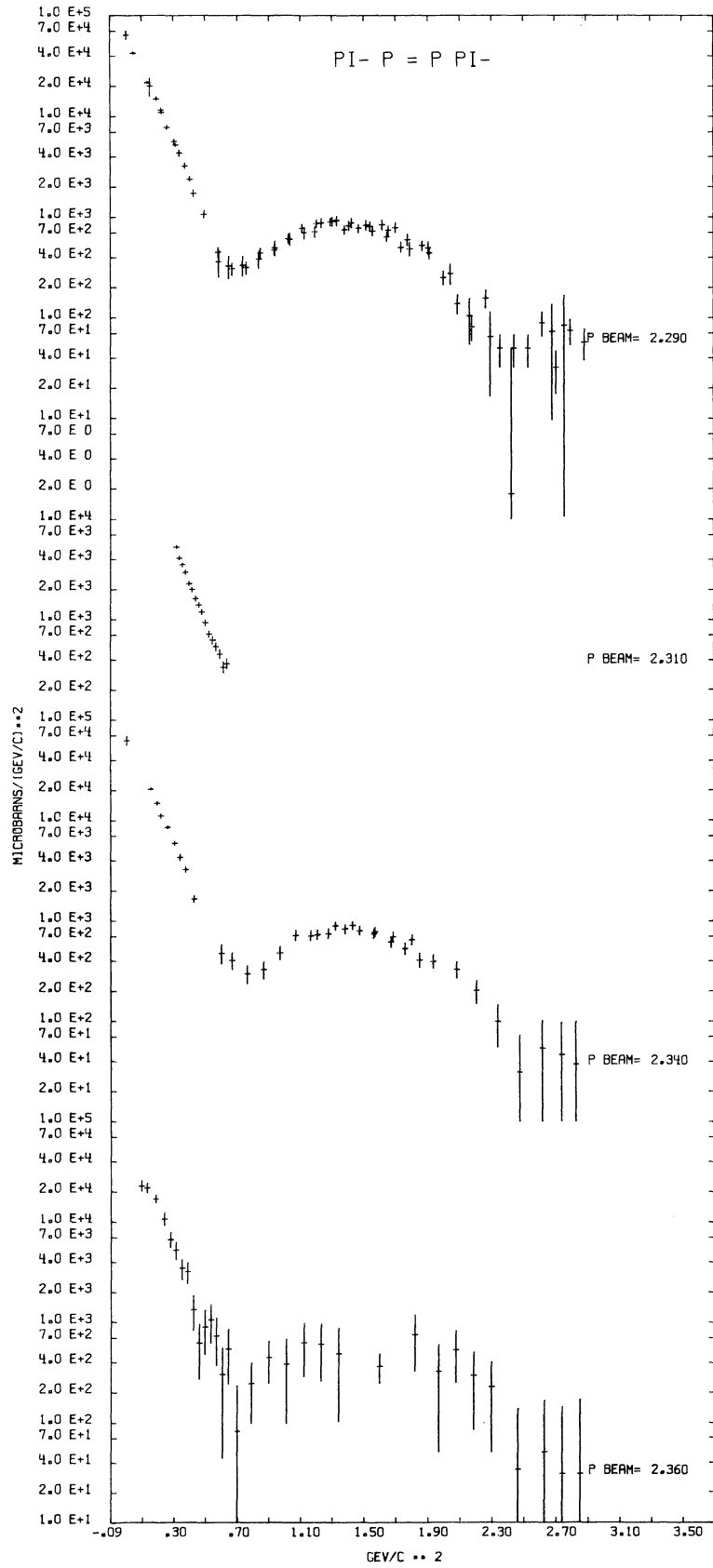


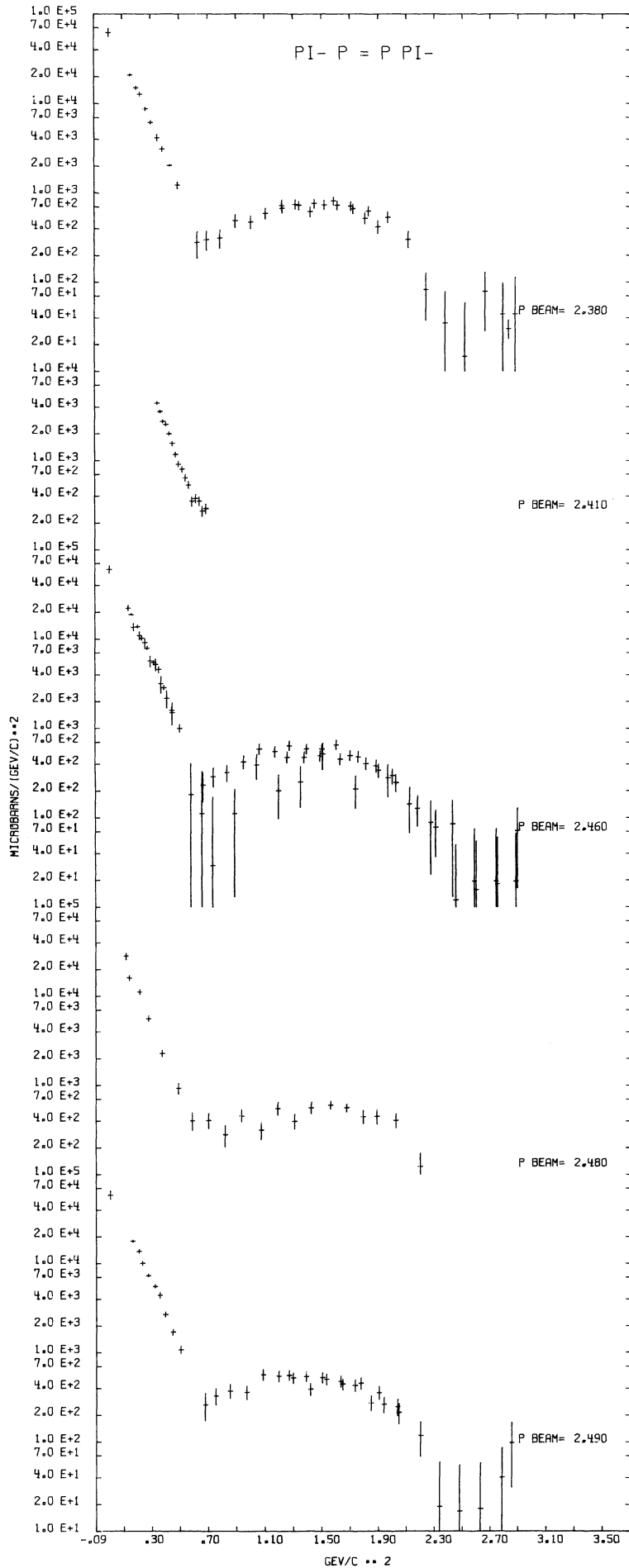


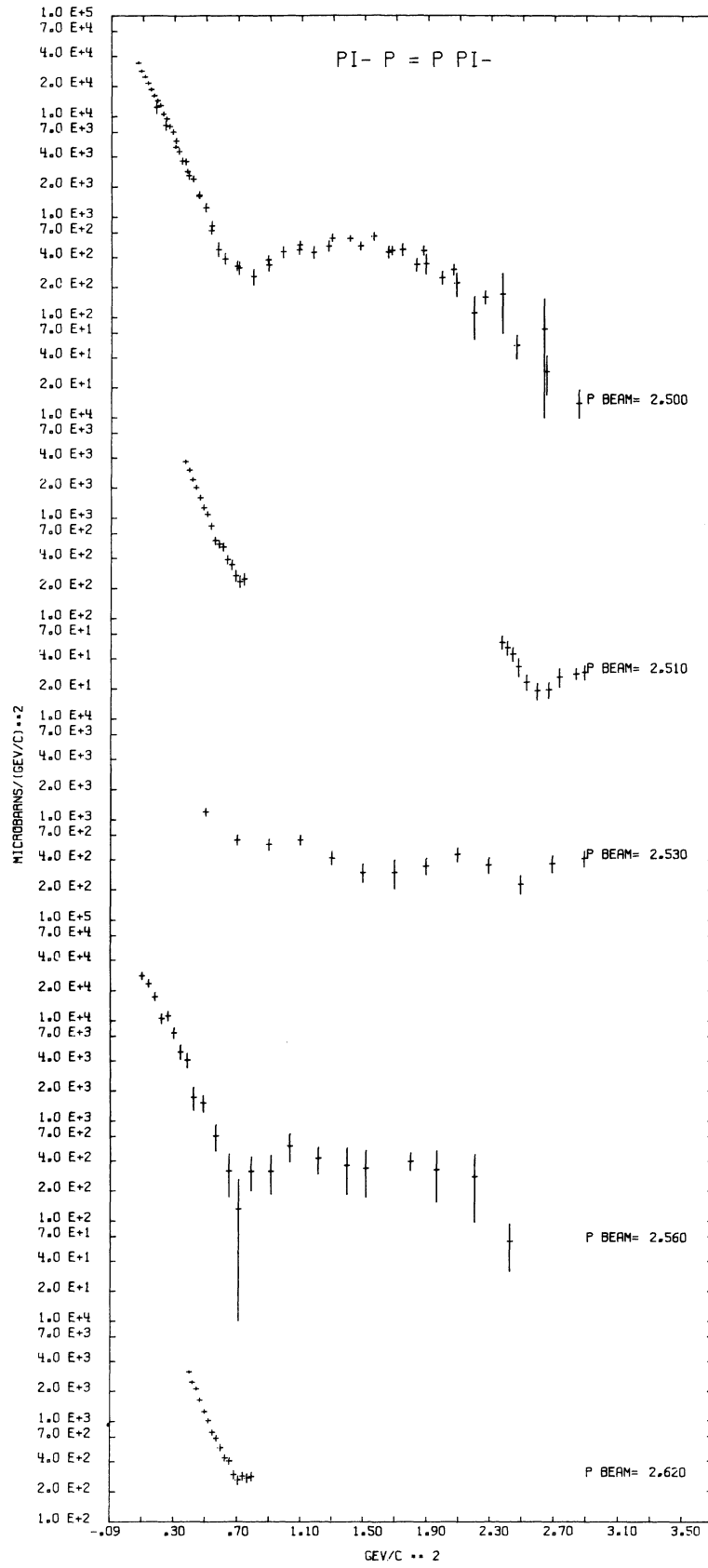


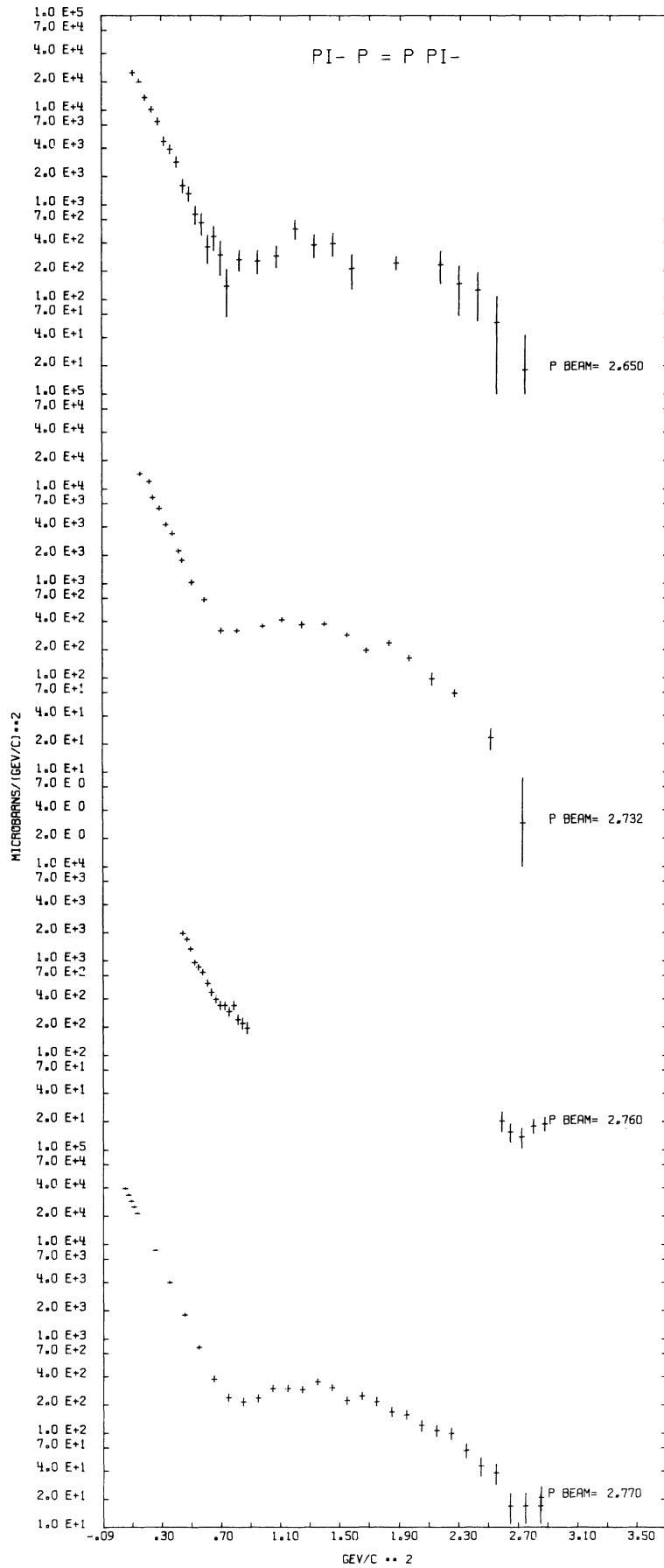


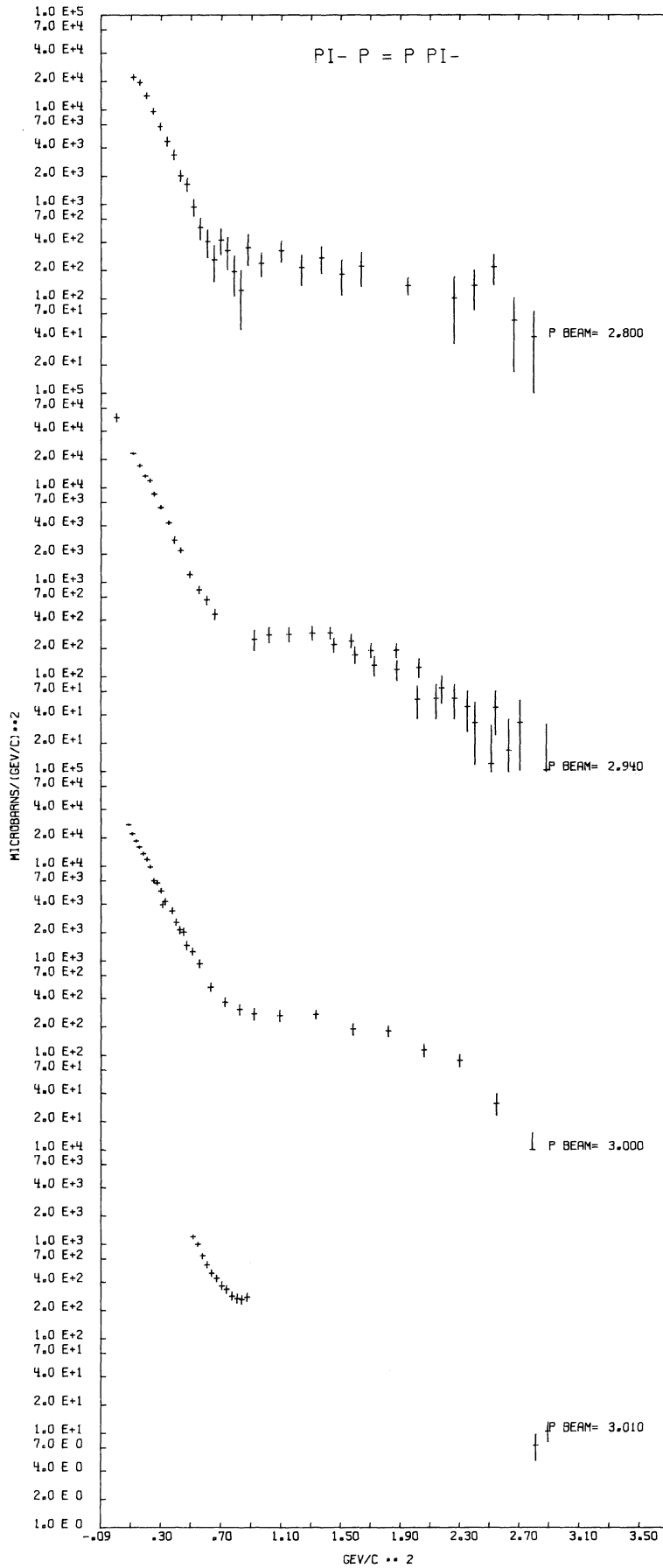


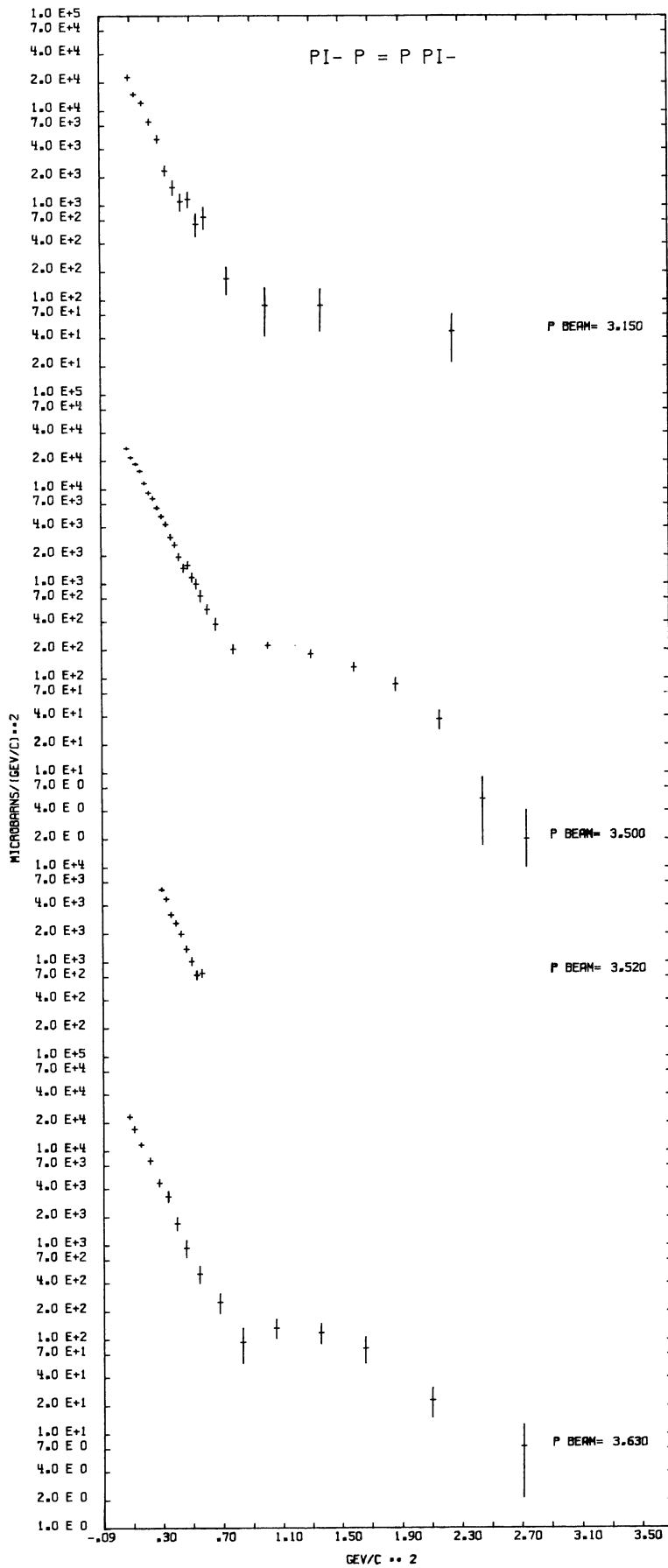


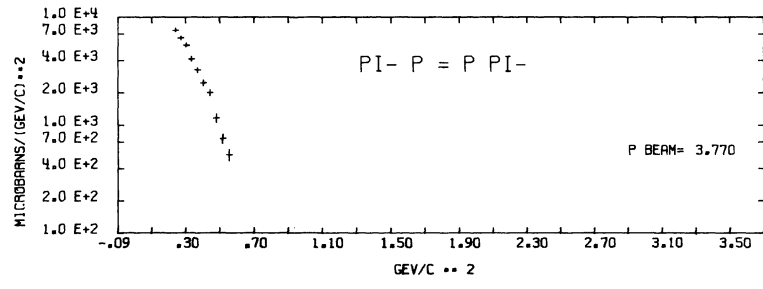


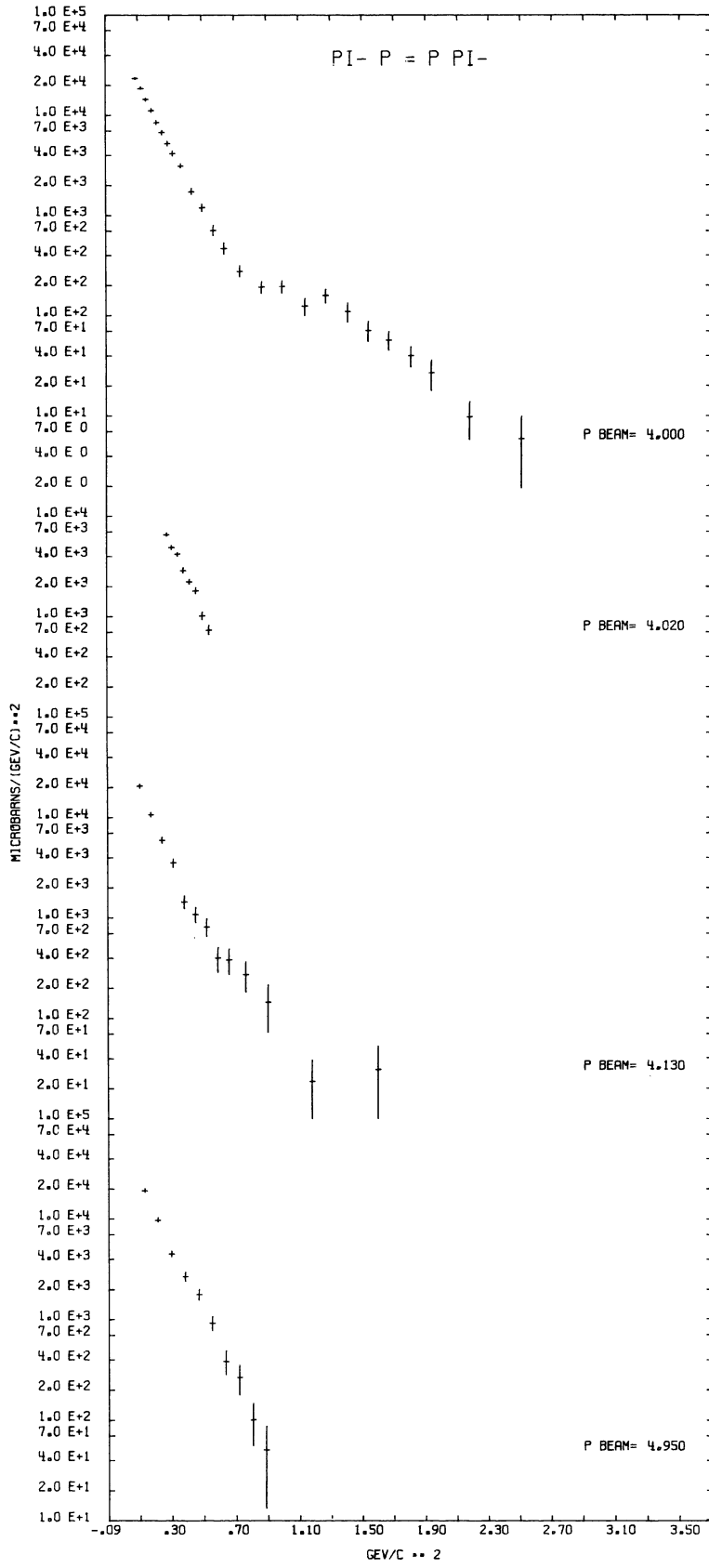


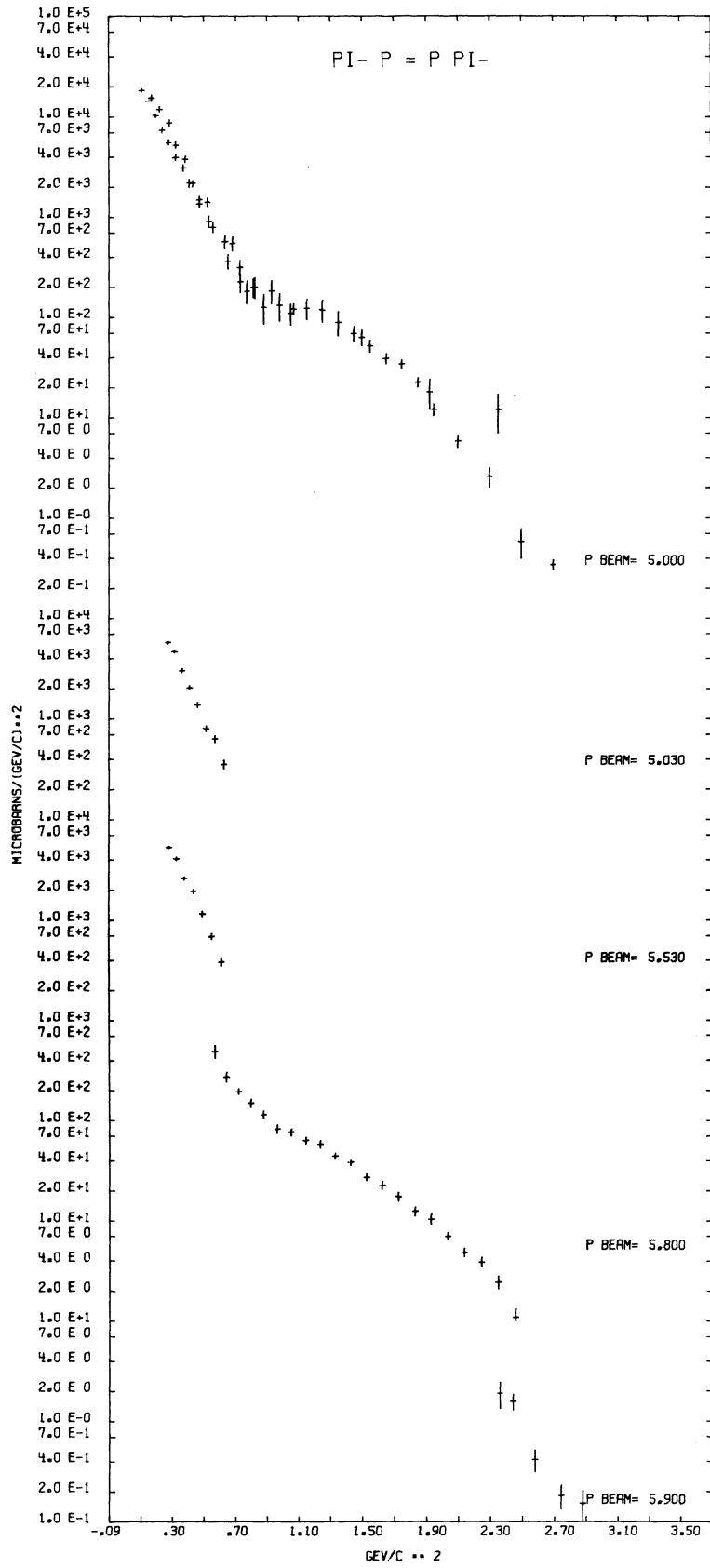


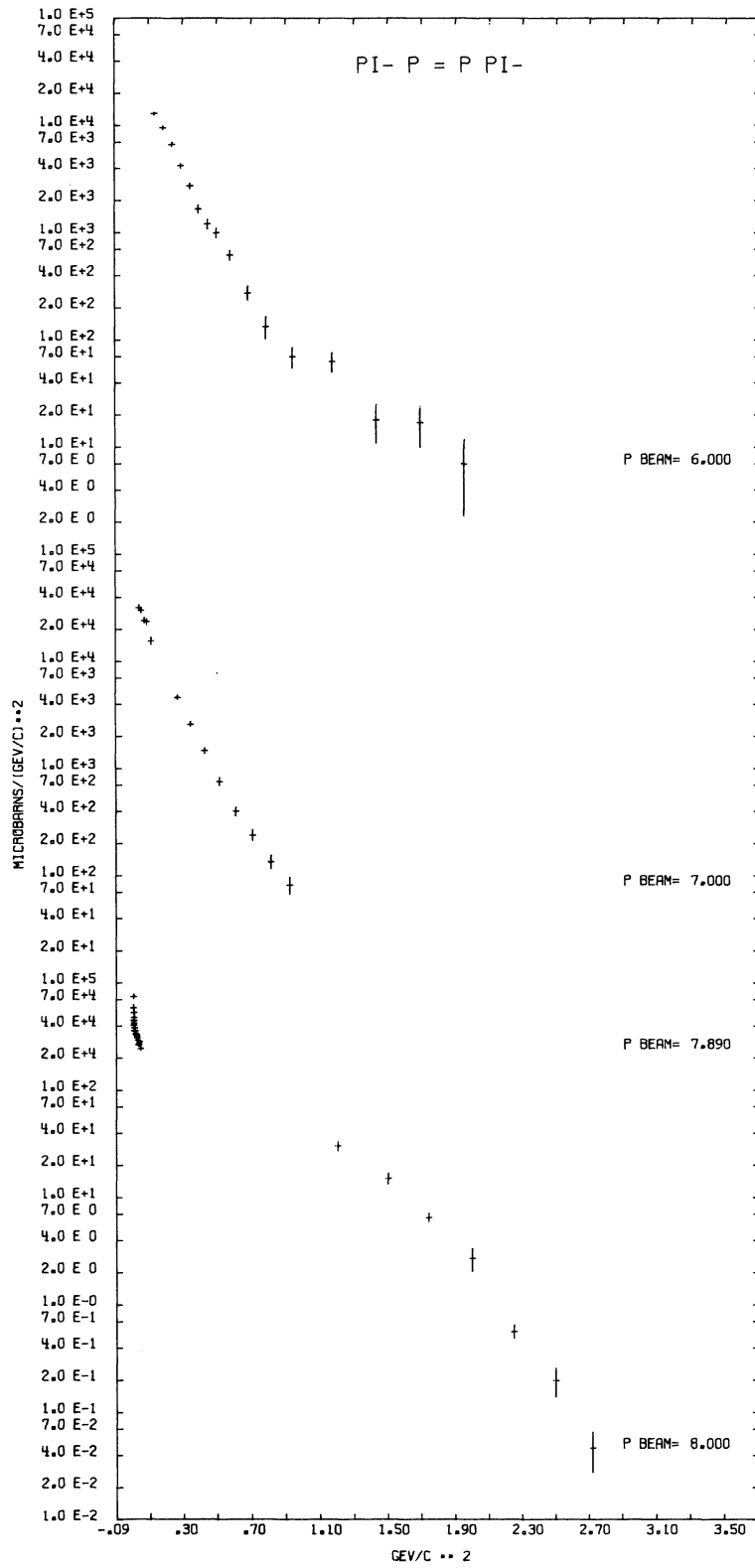


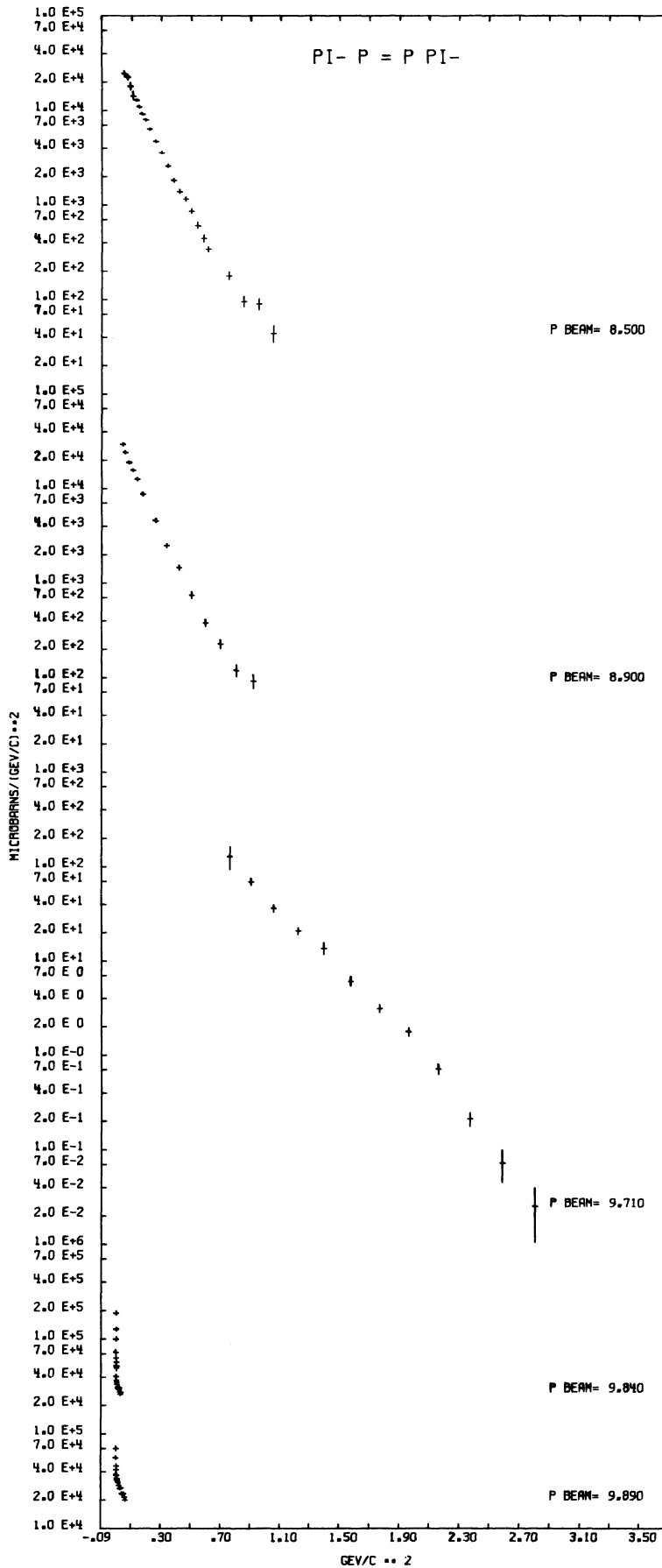


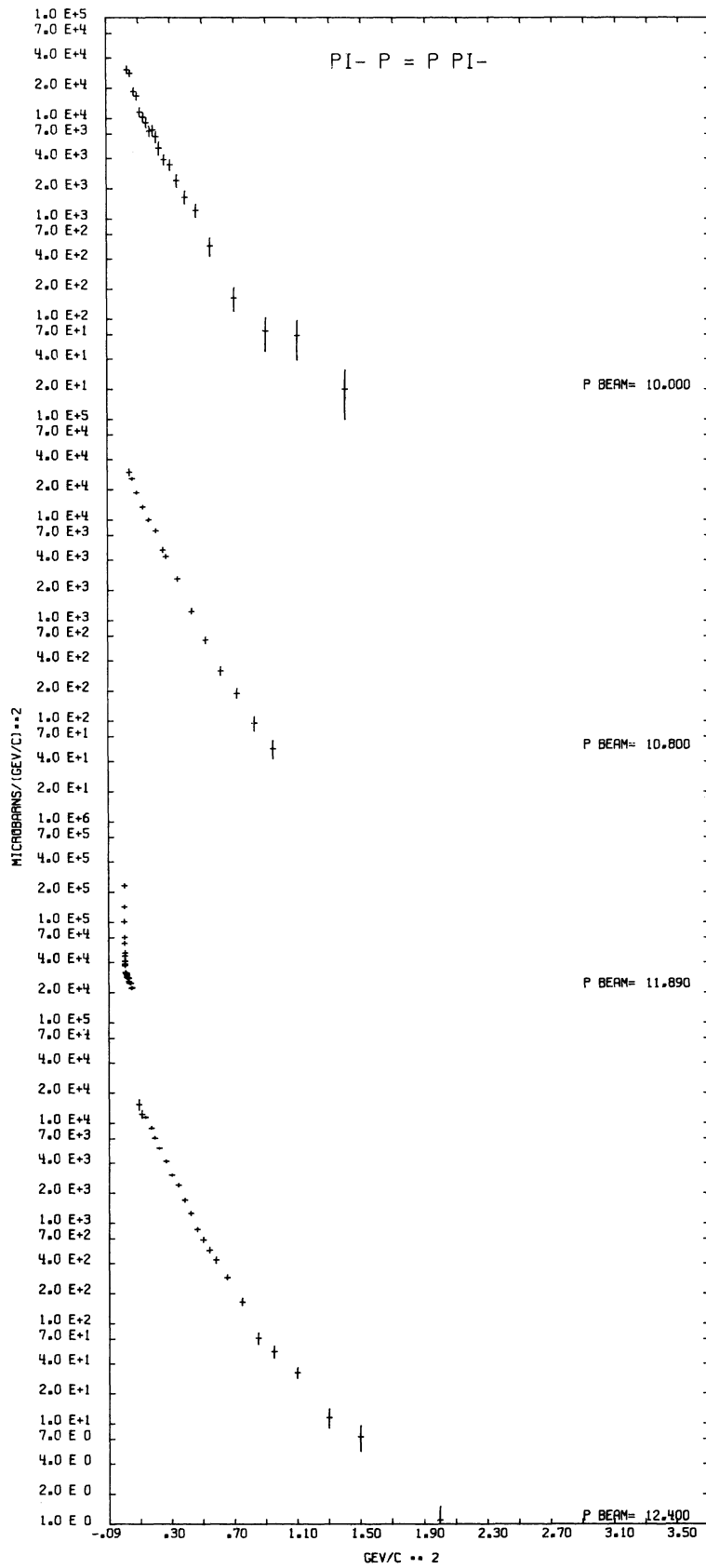


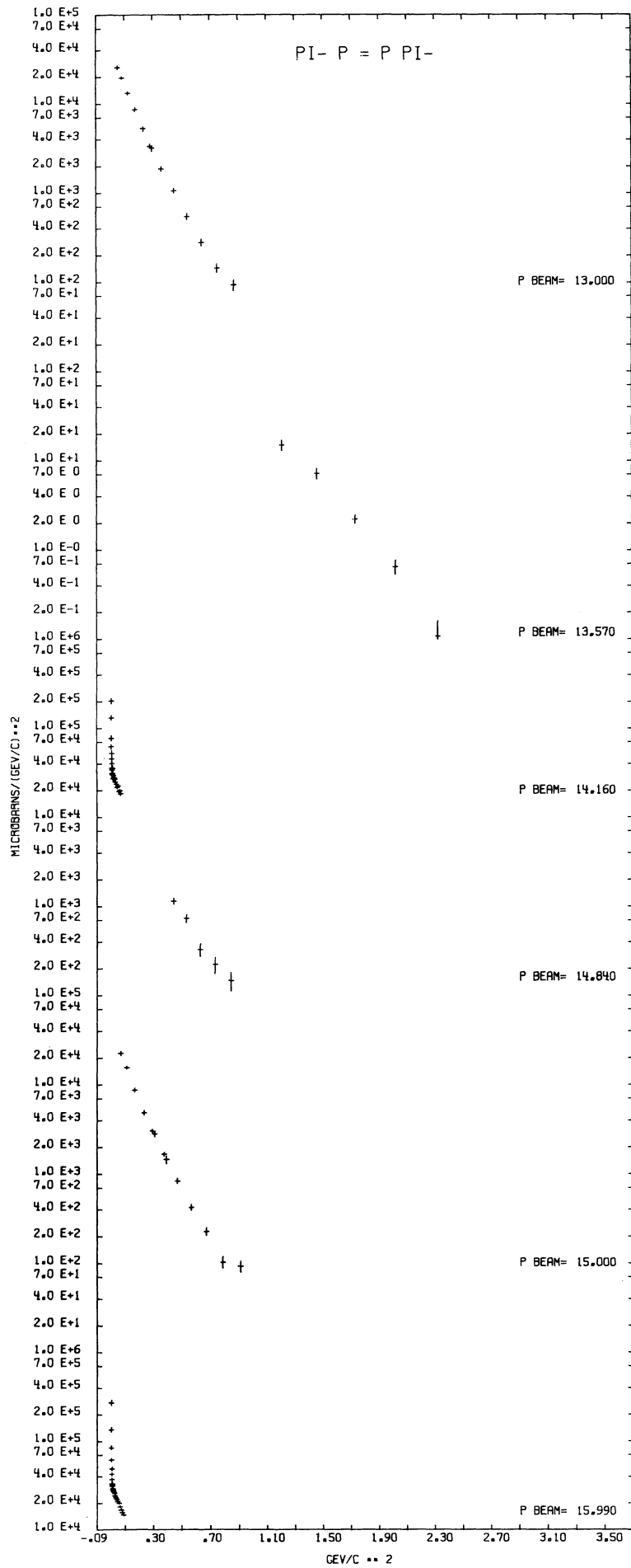


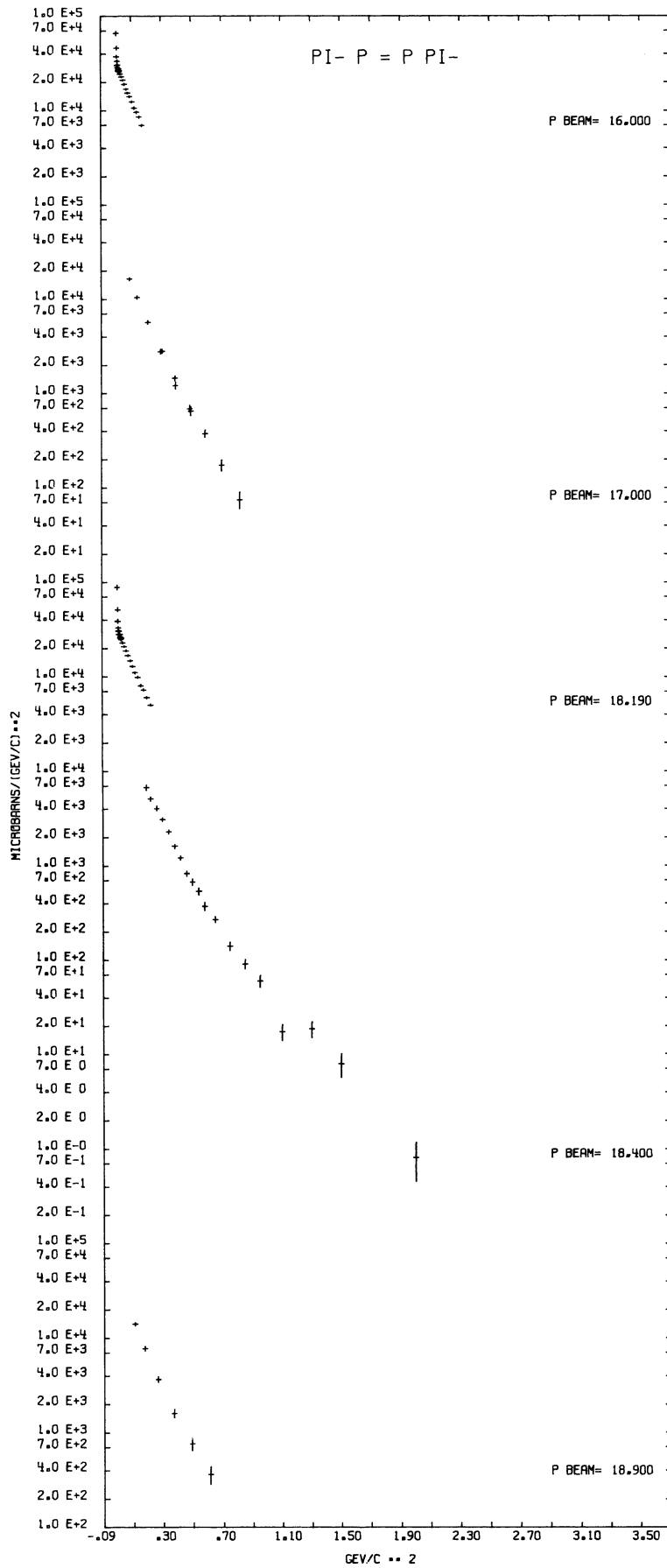


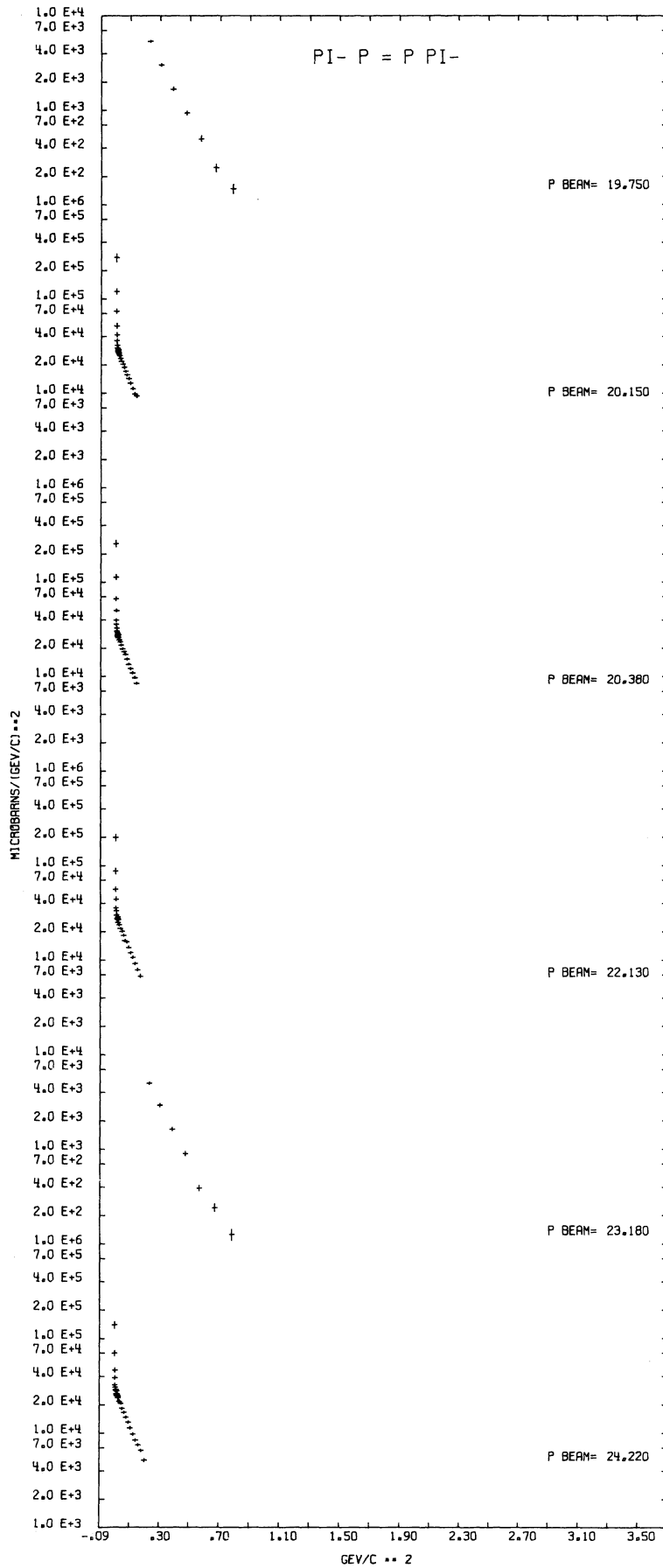


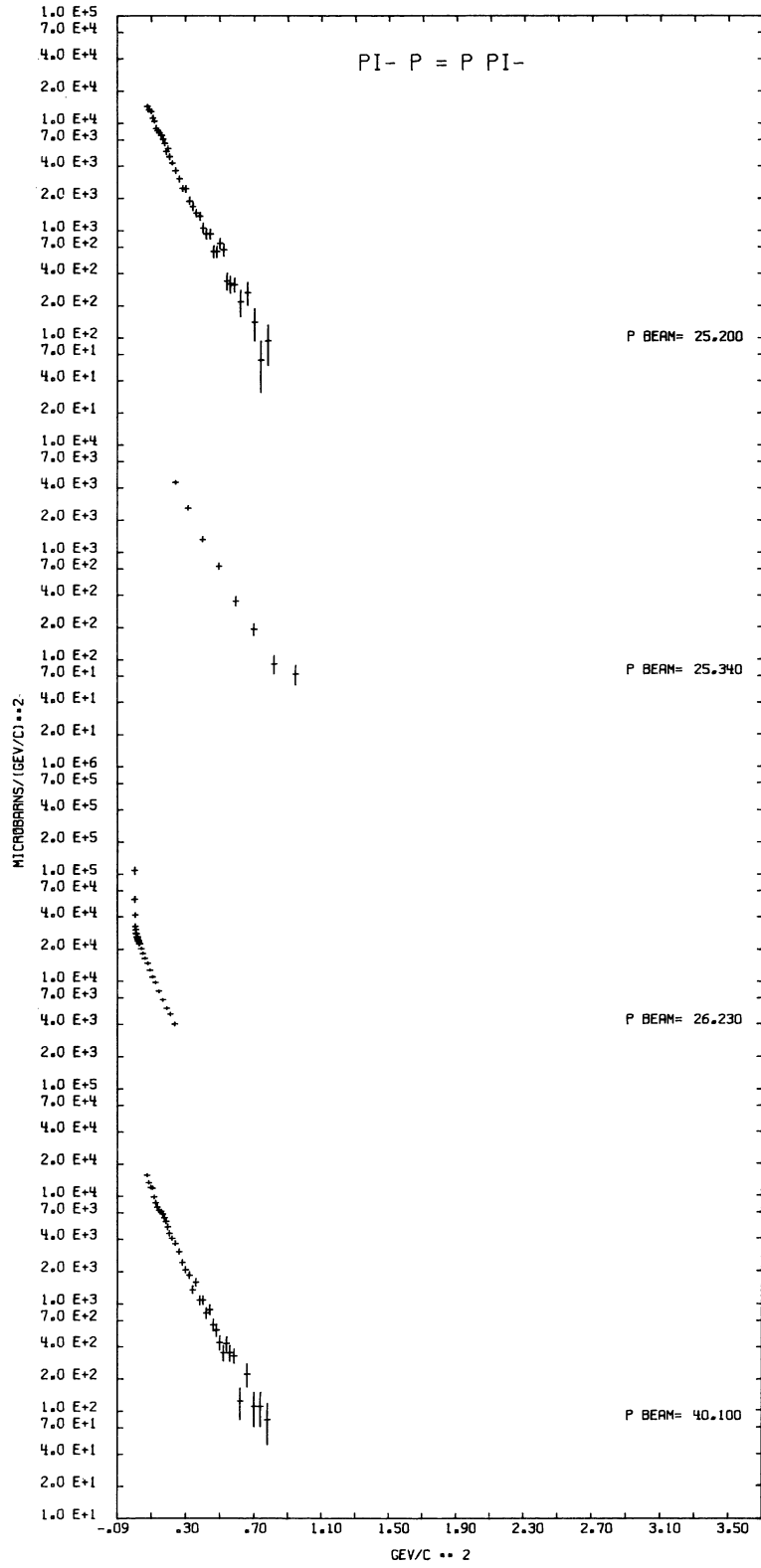




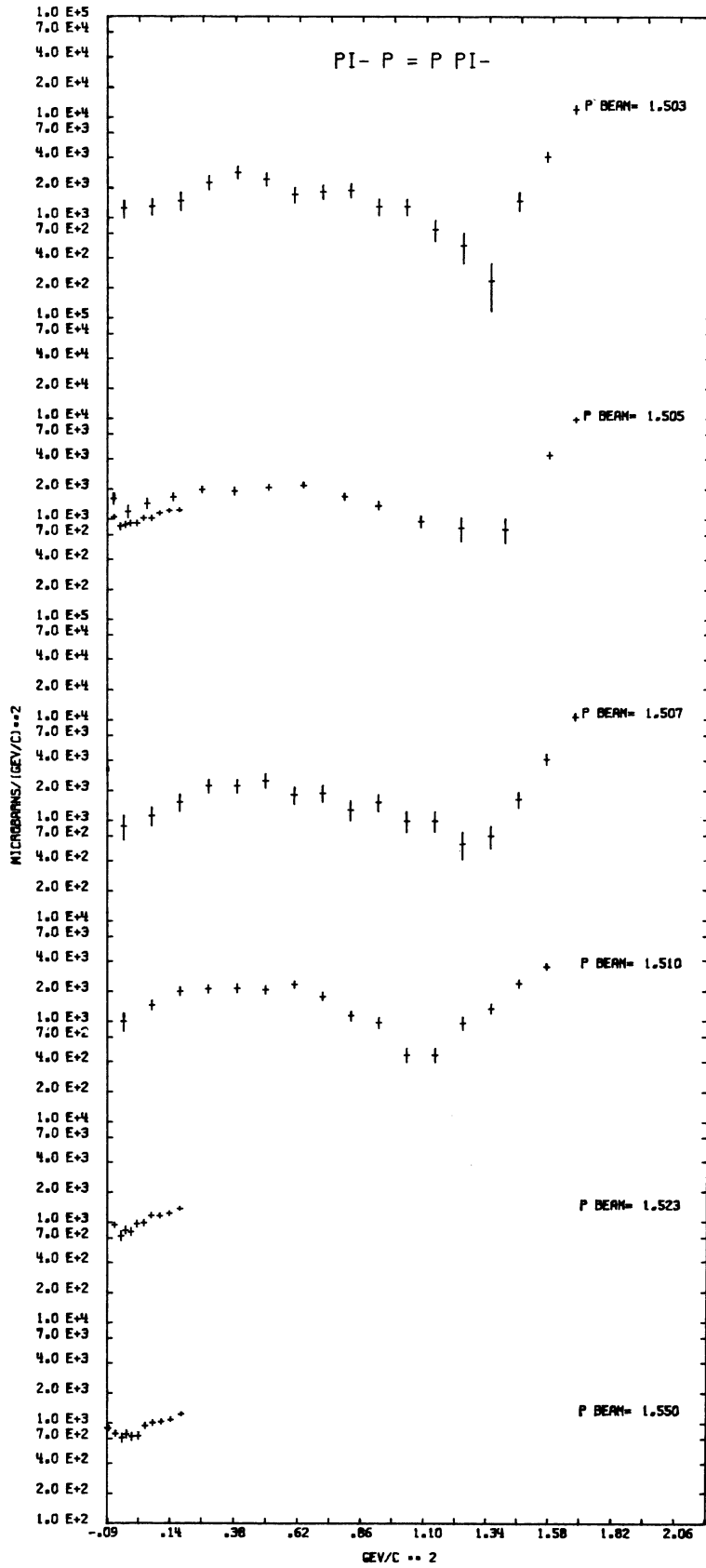


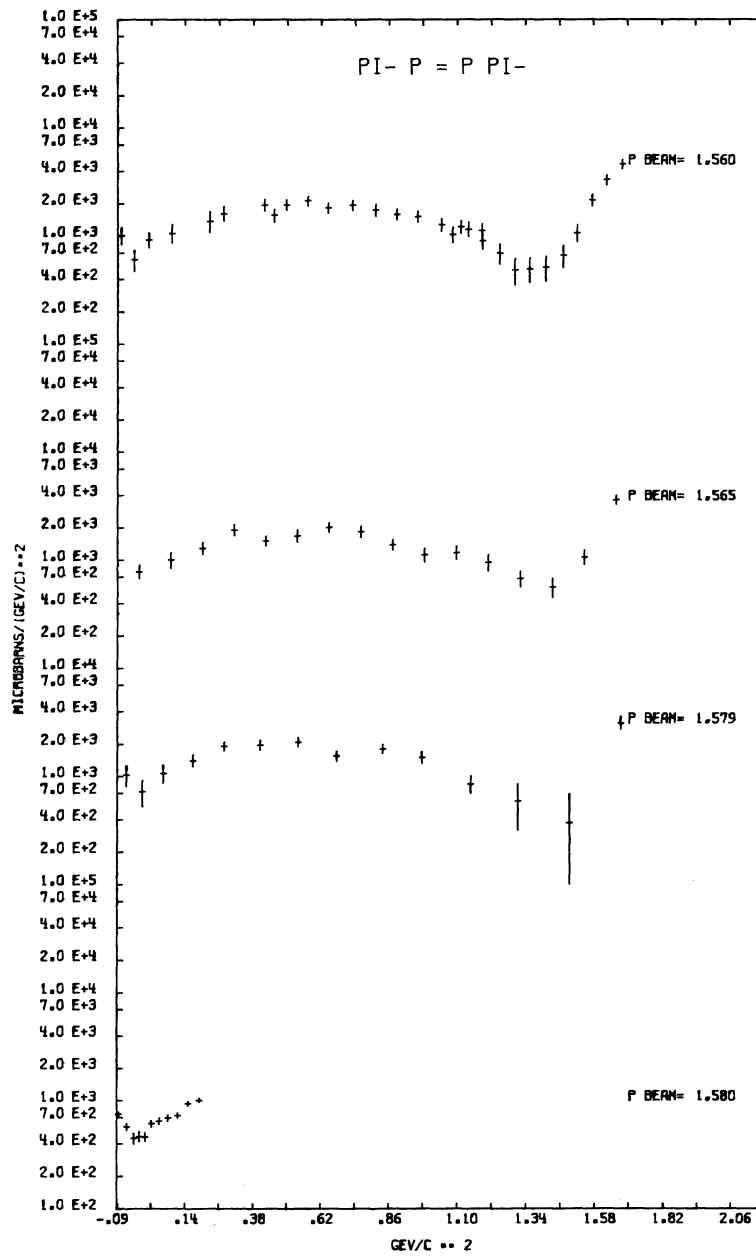


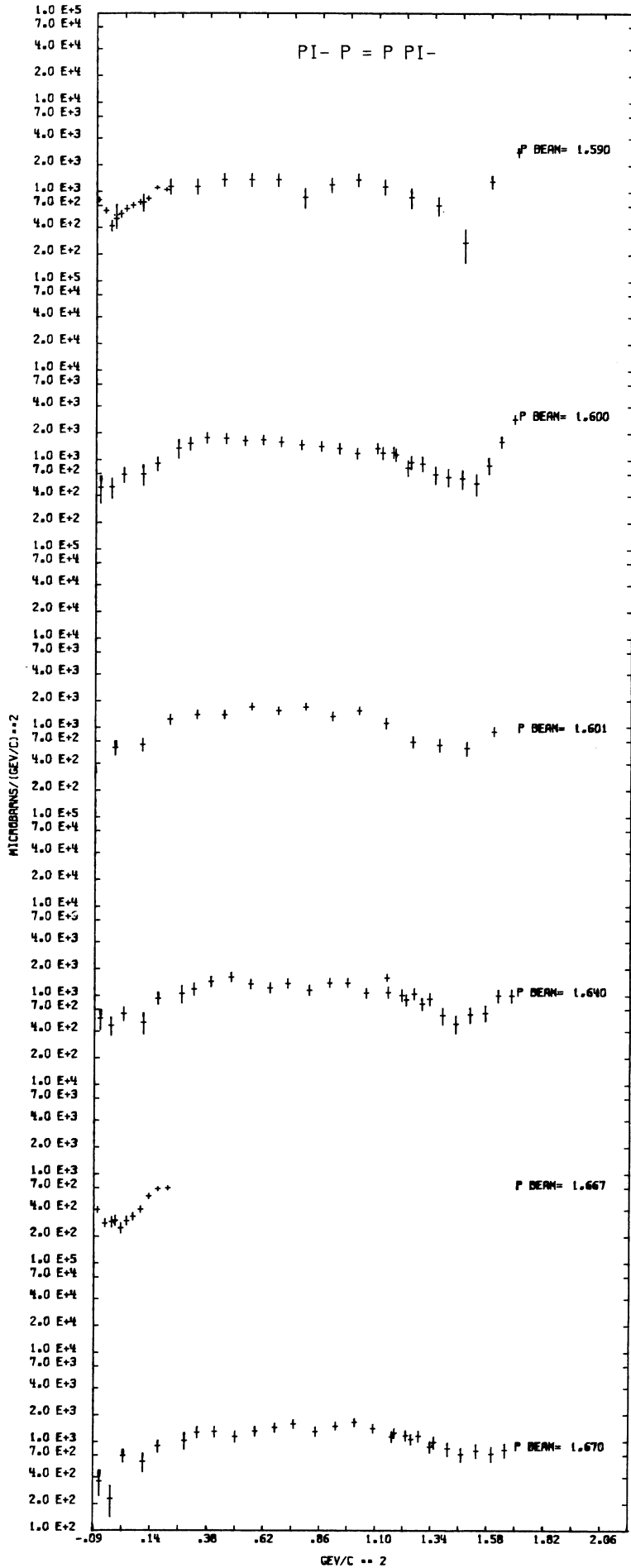


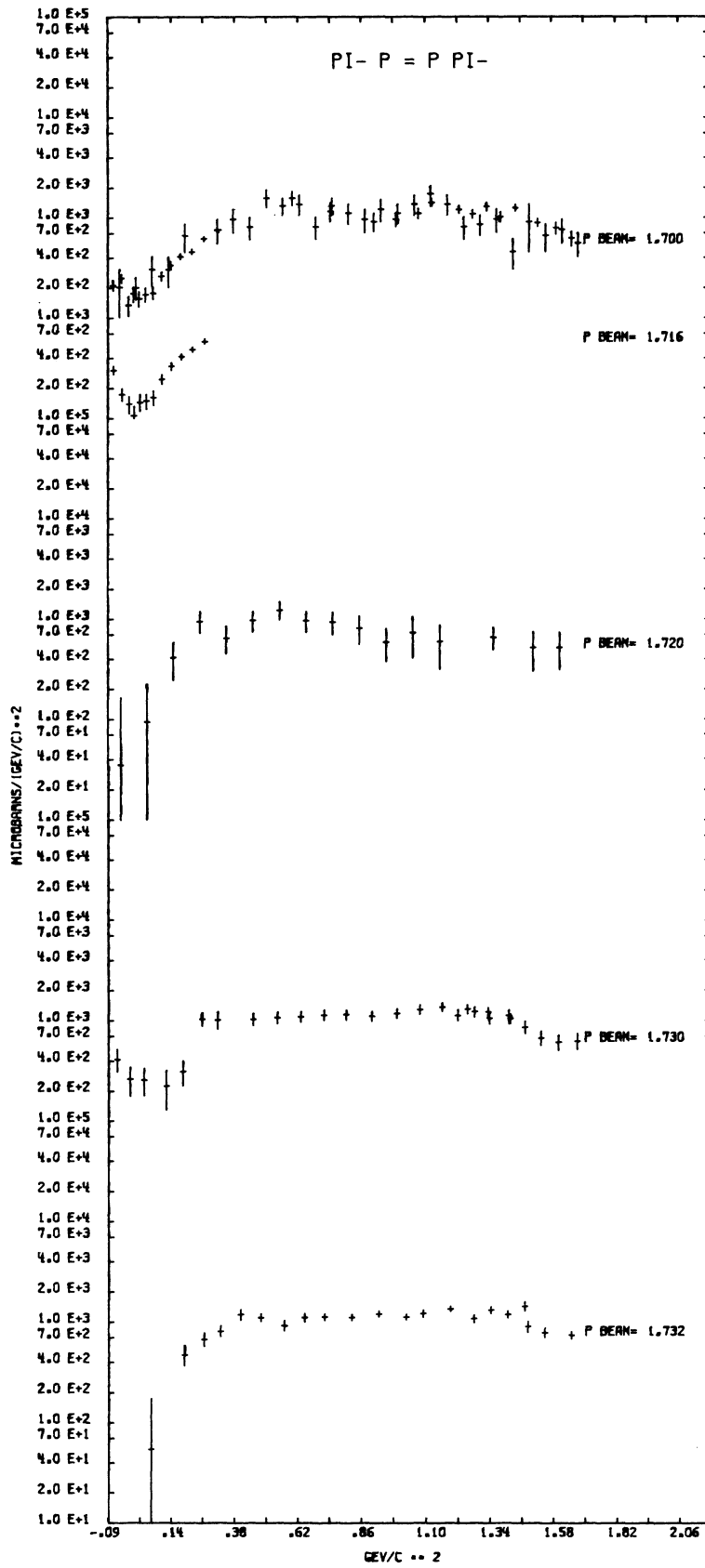


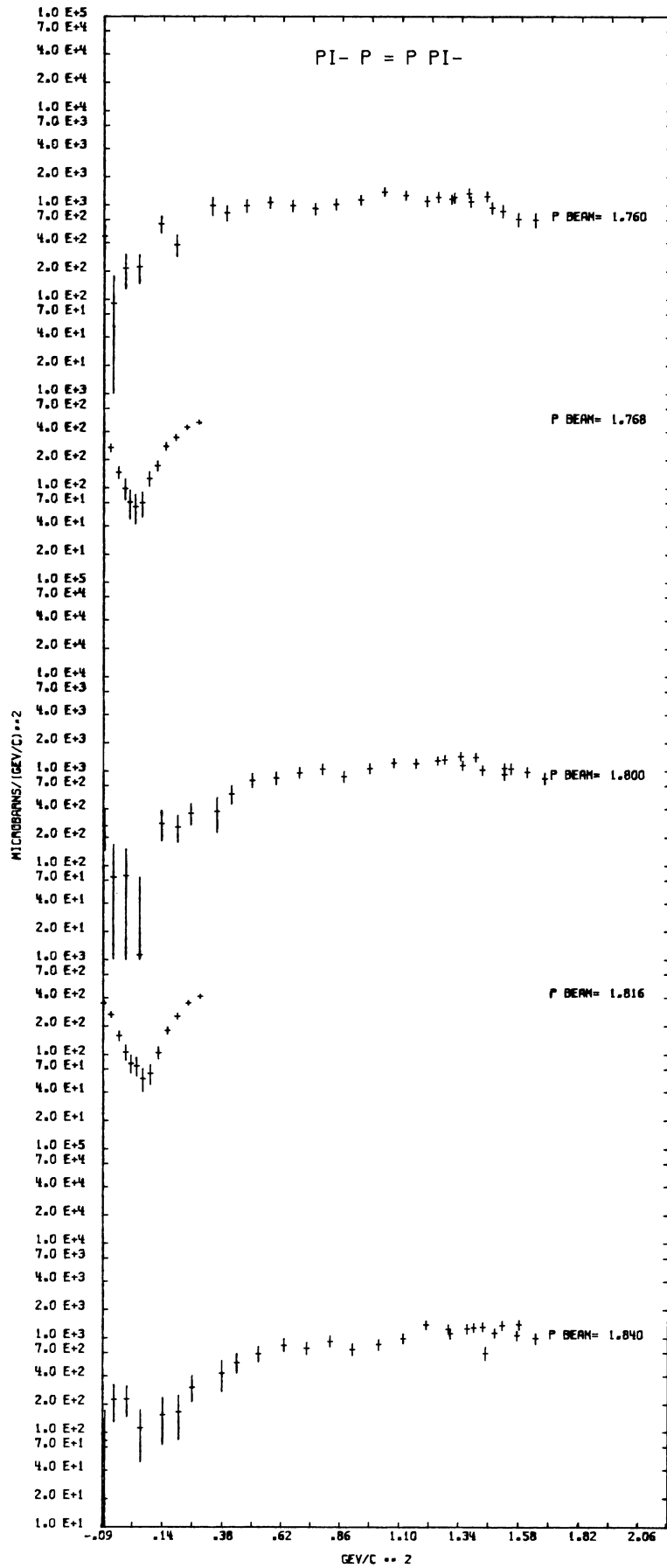
π^- p ELASTIC BACKWARD SCATT.

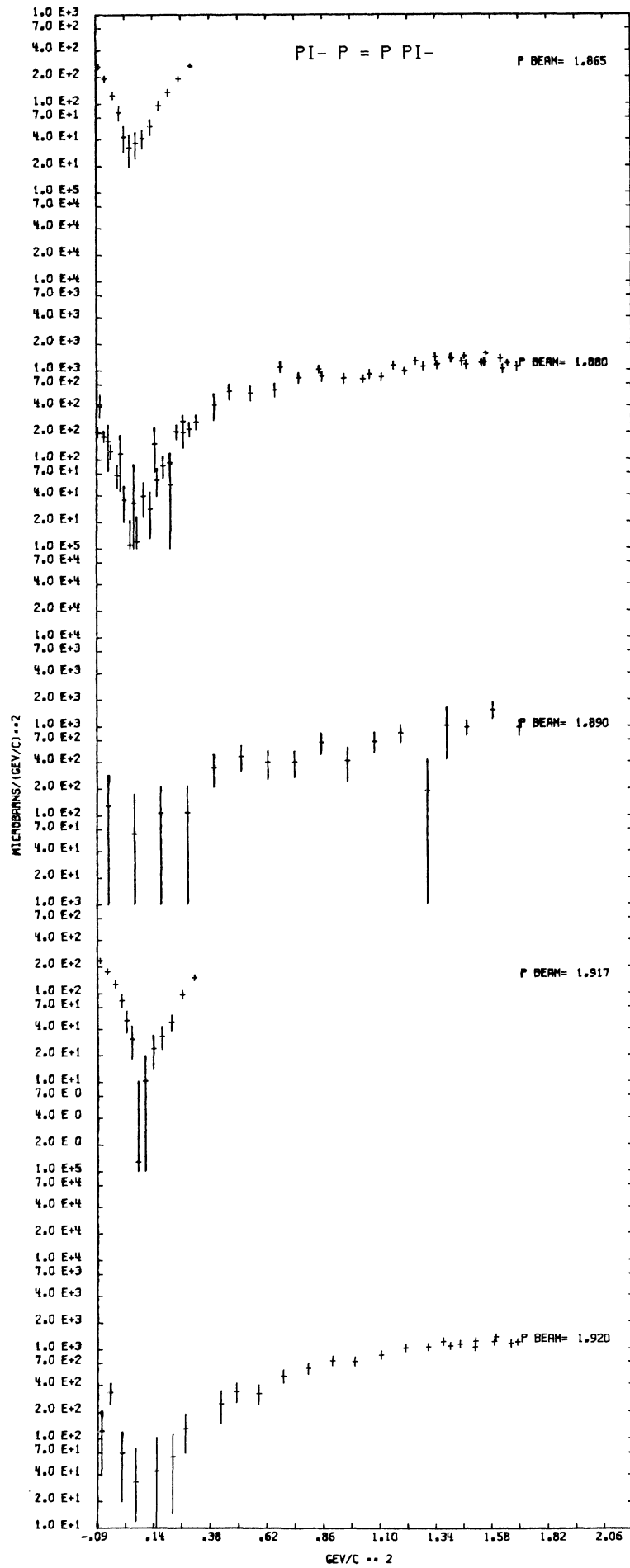


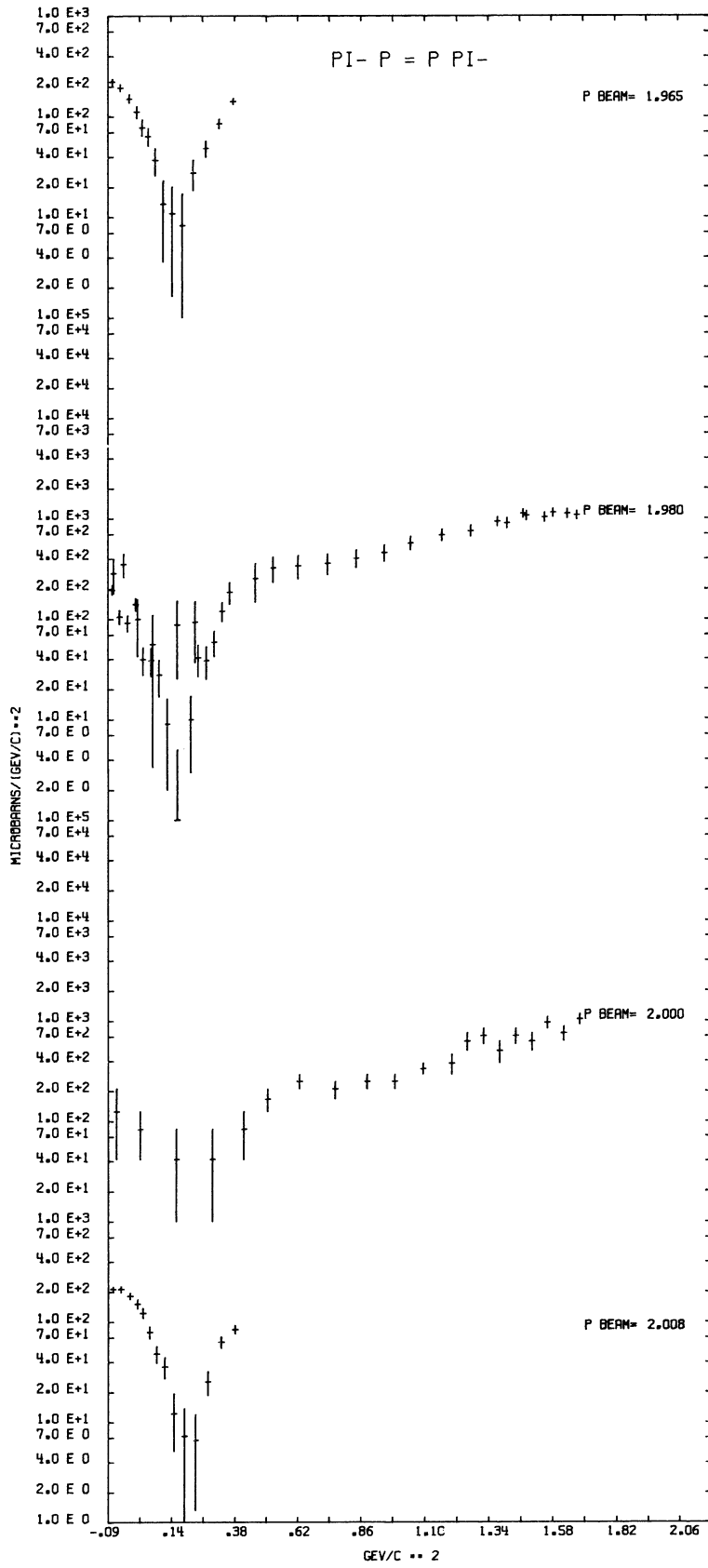


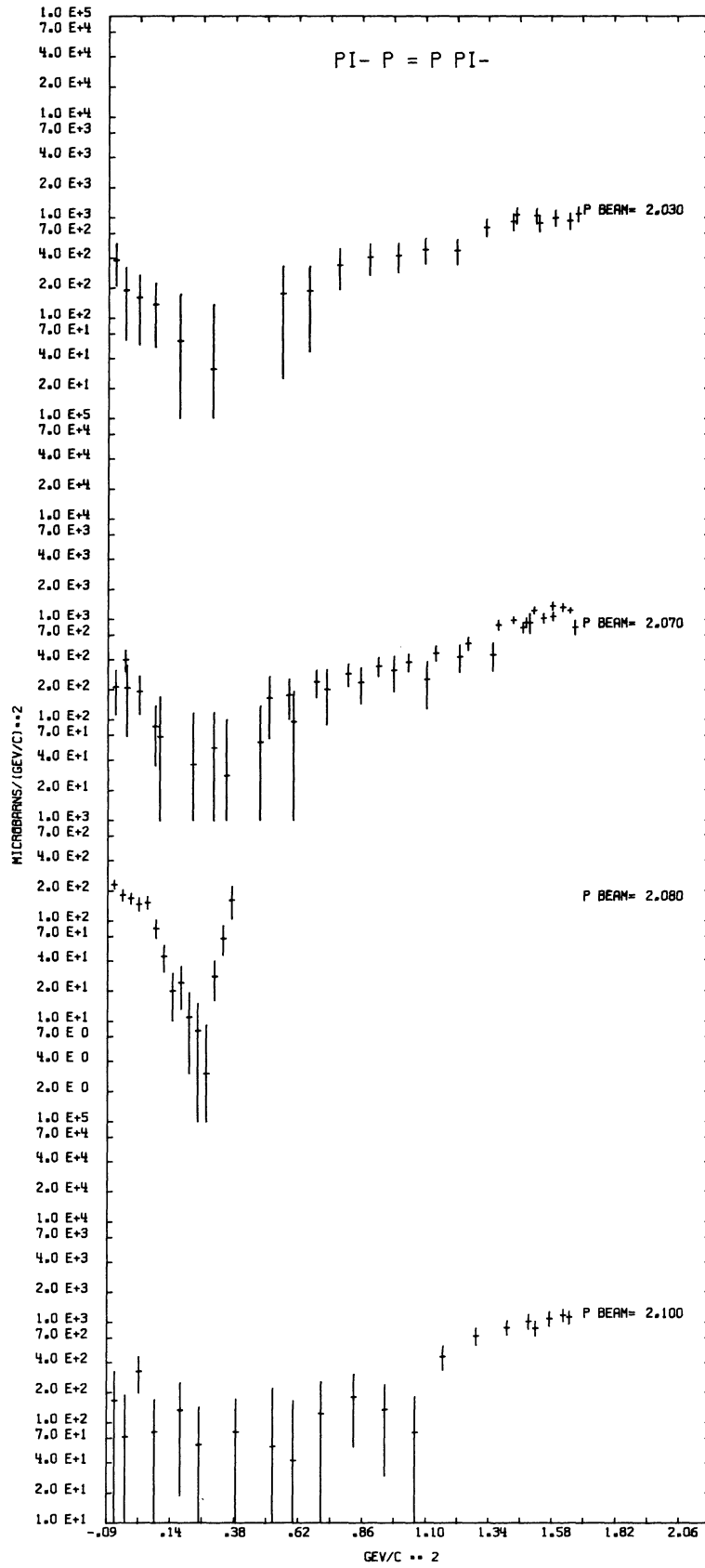


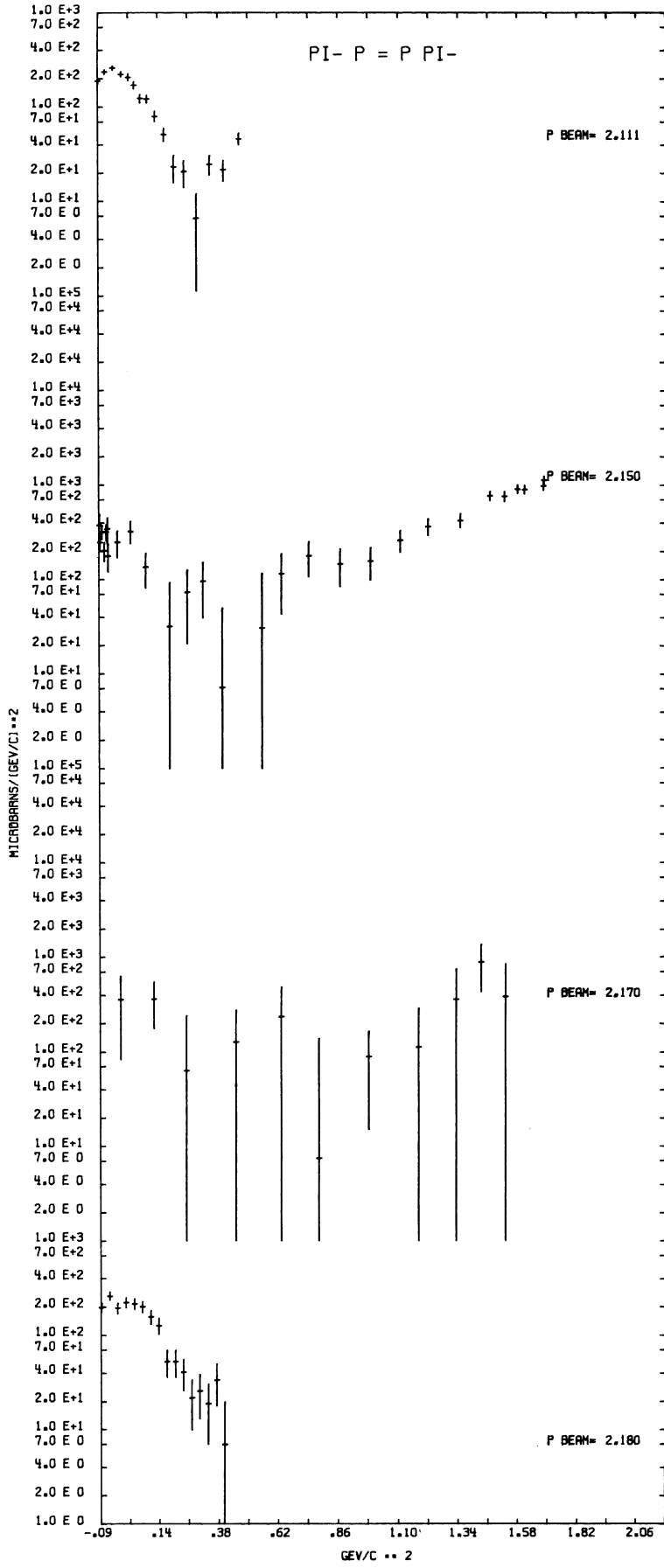


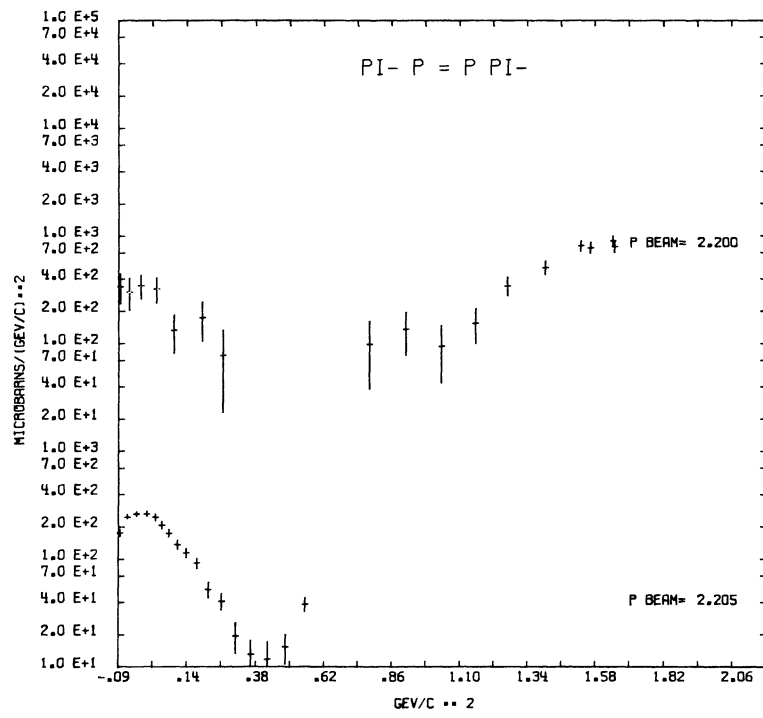


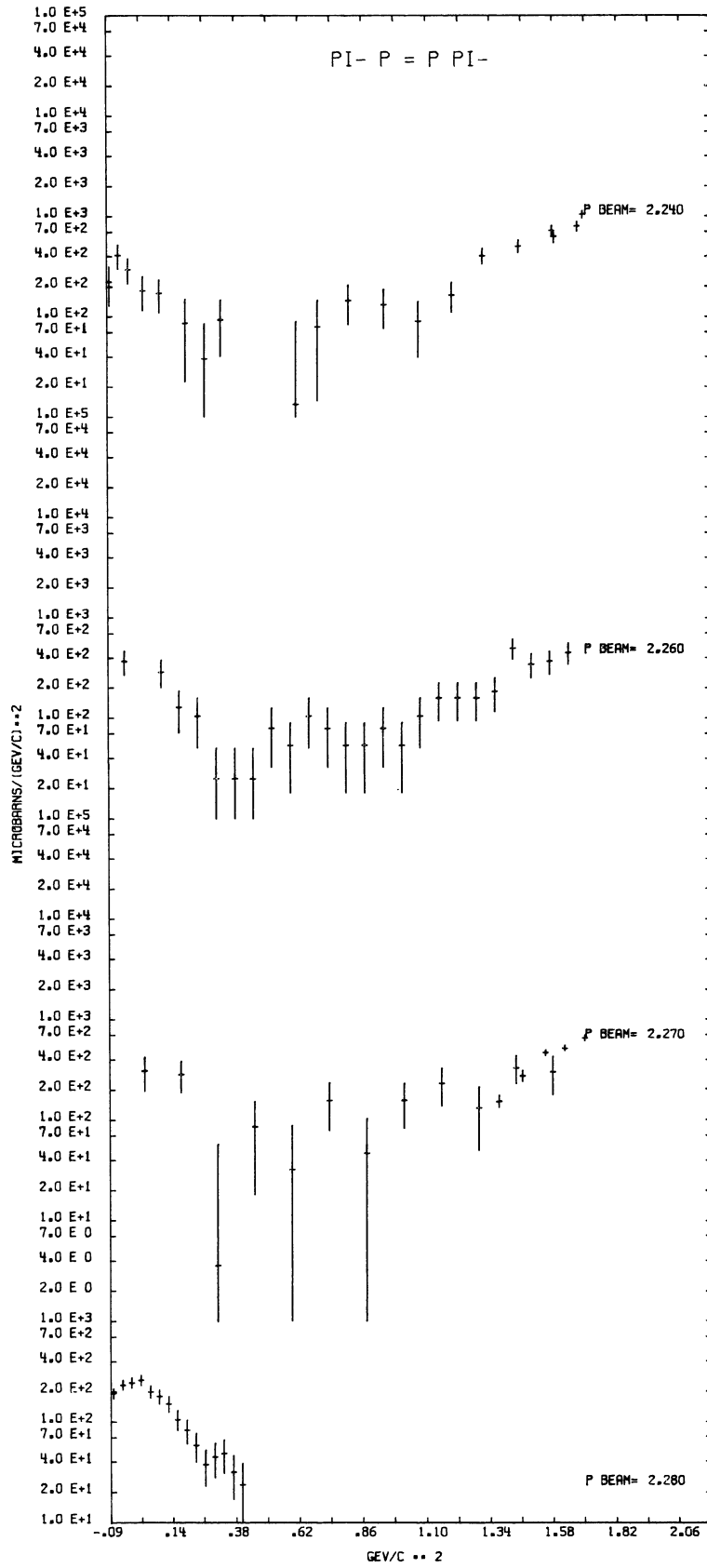


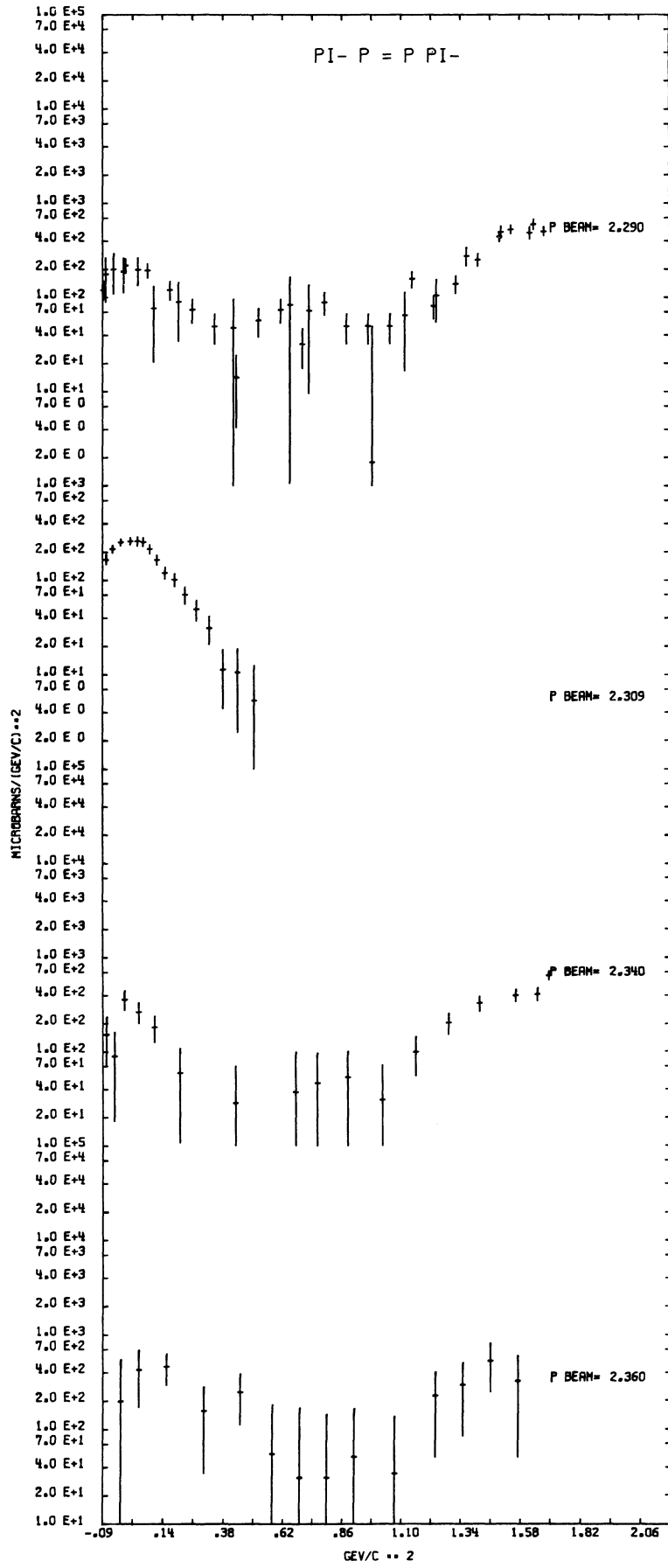


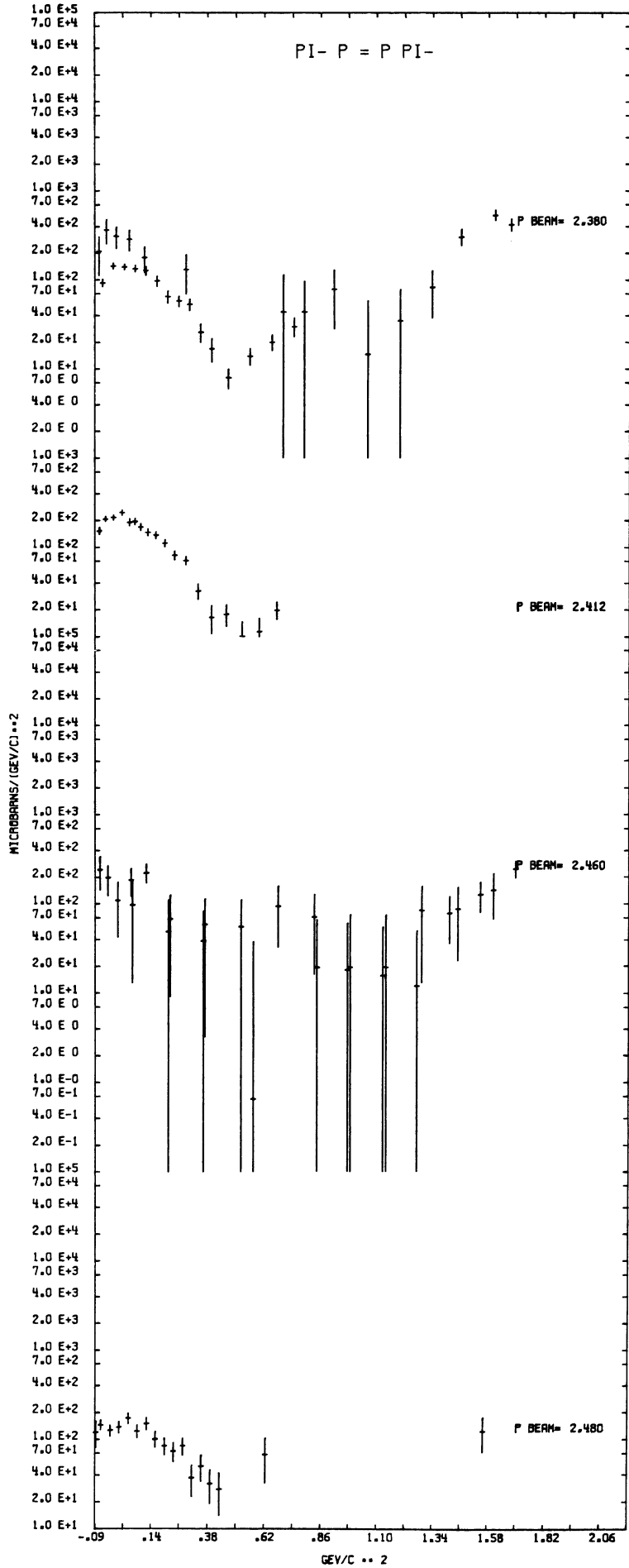


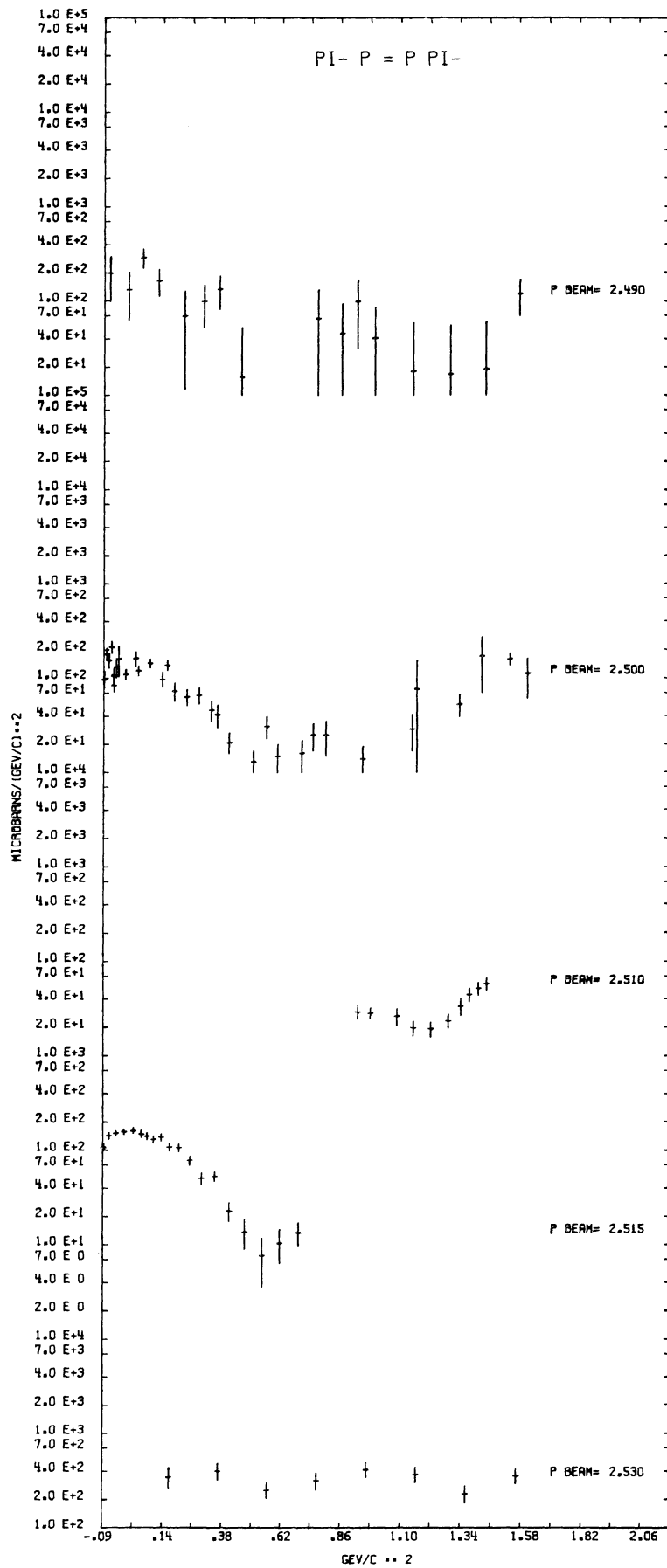


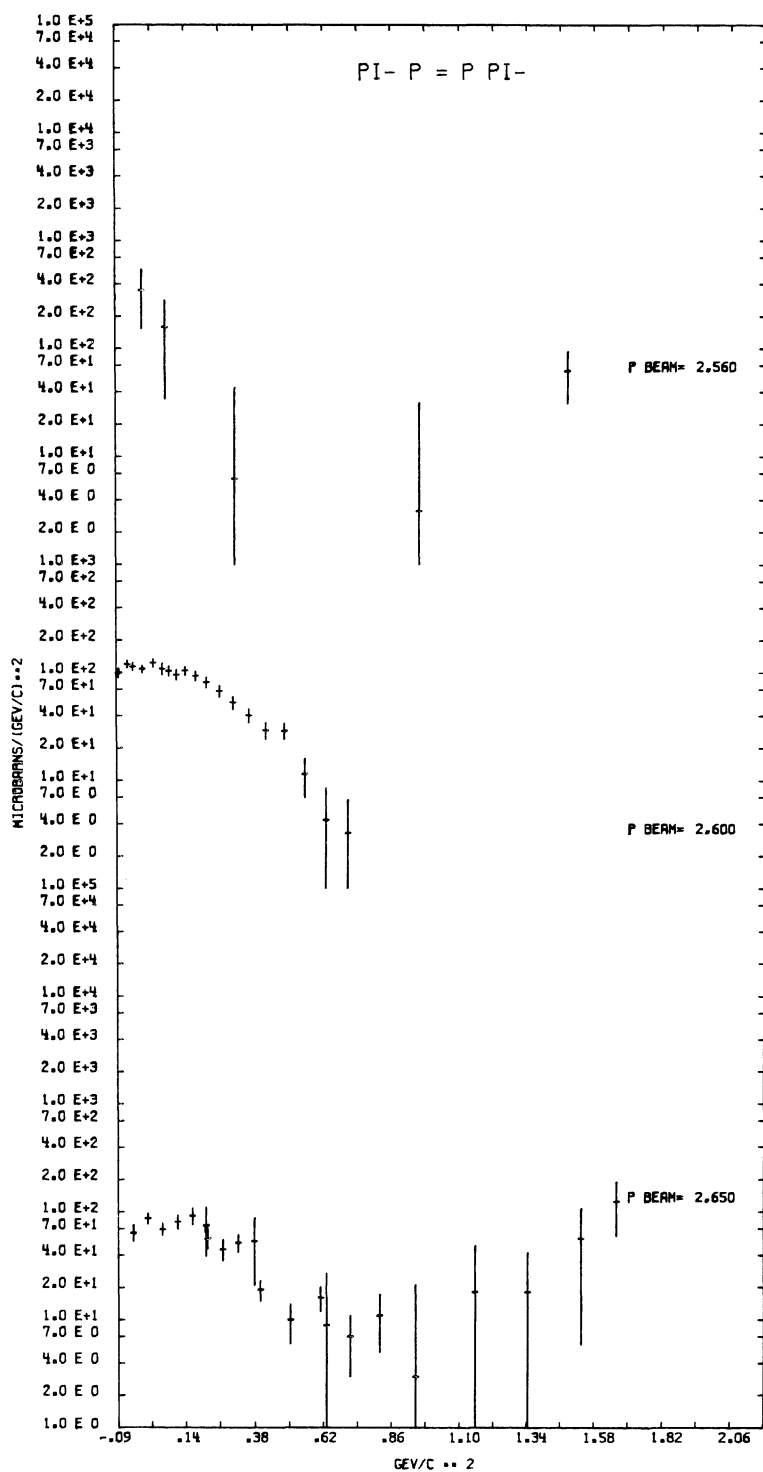


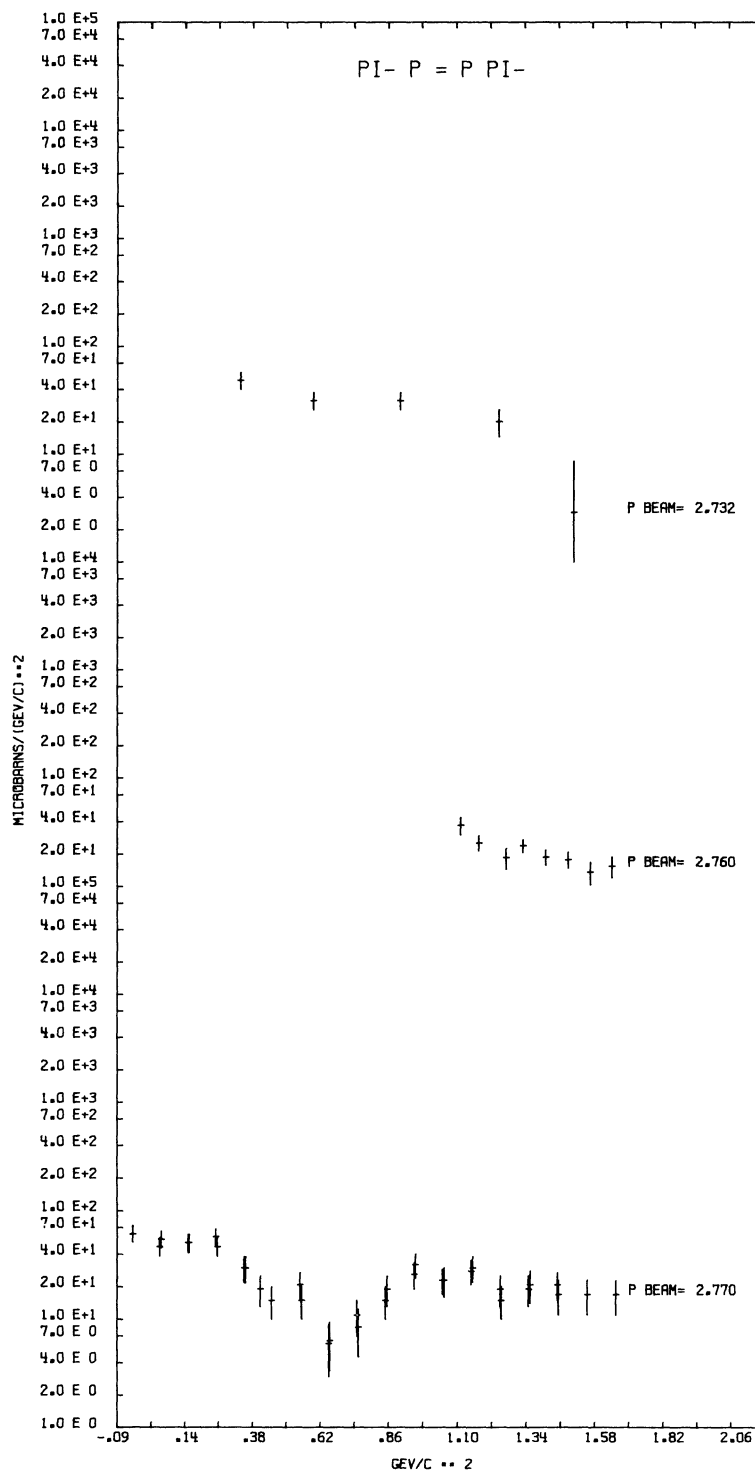


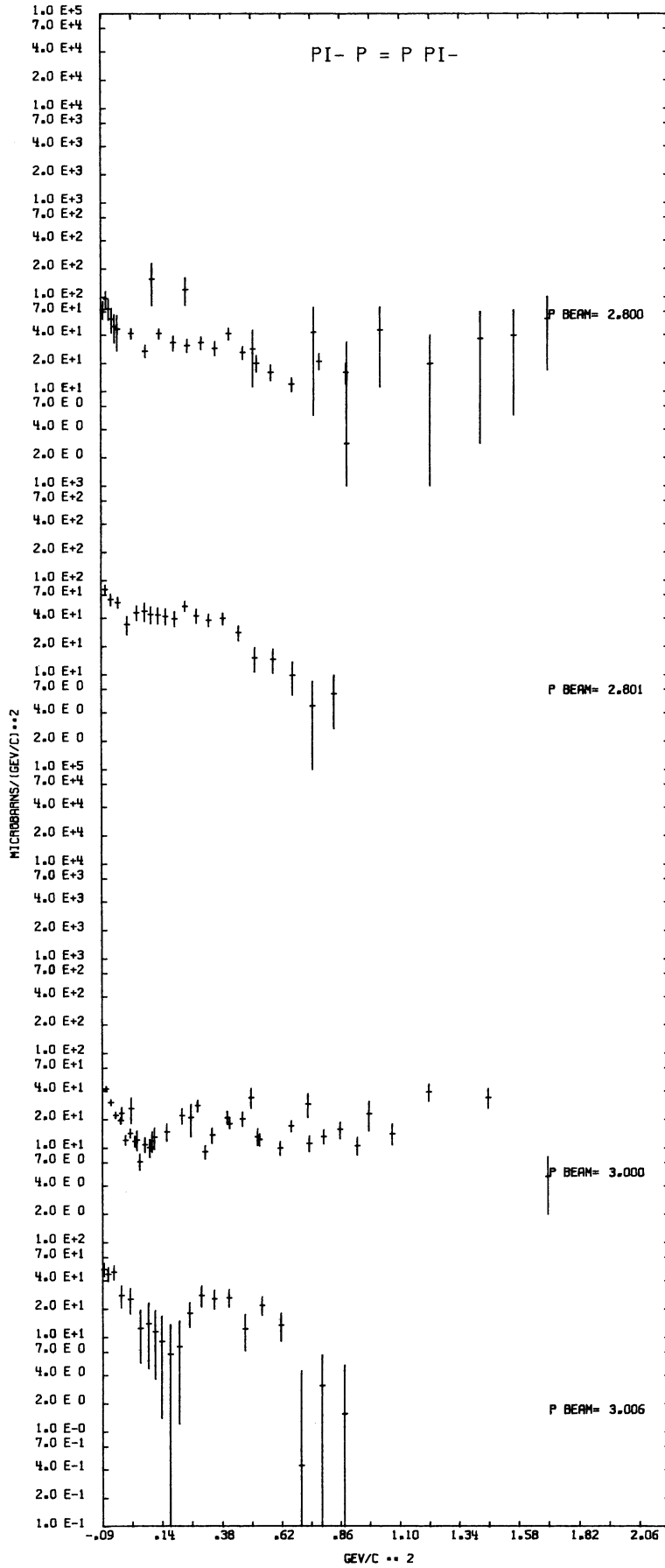


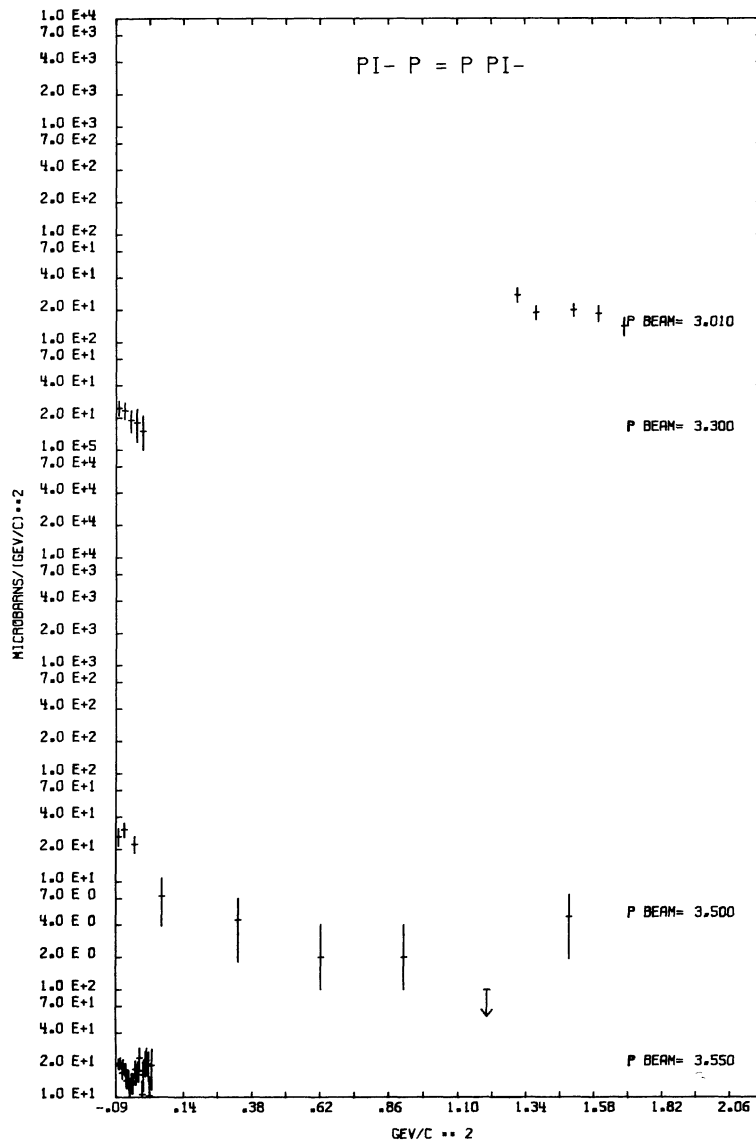


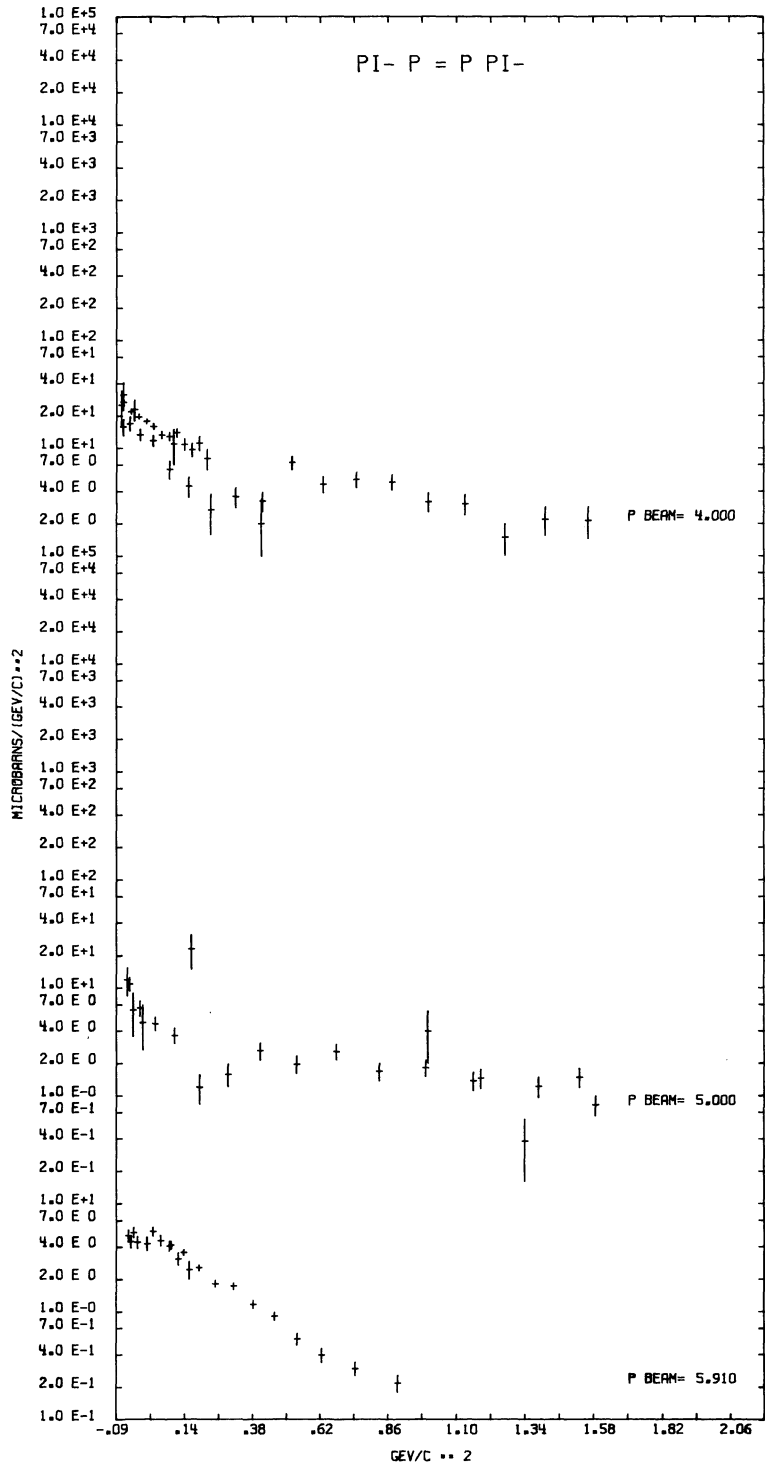


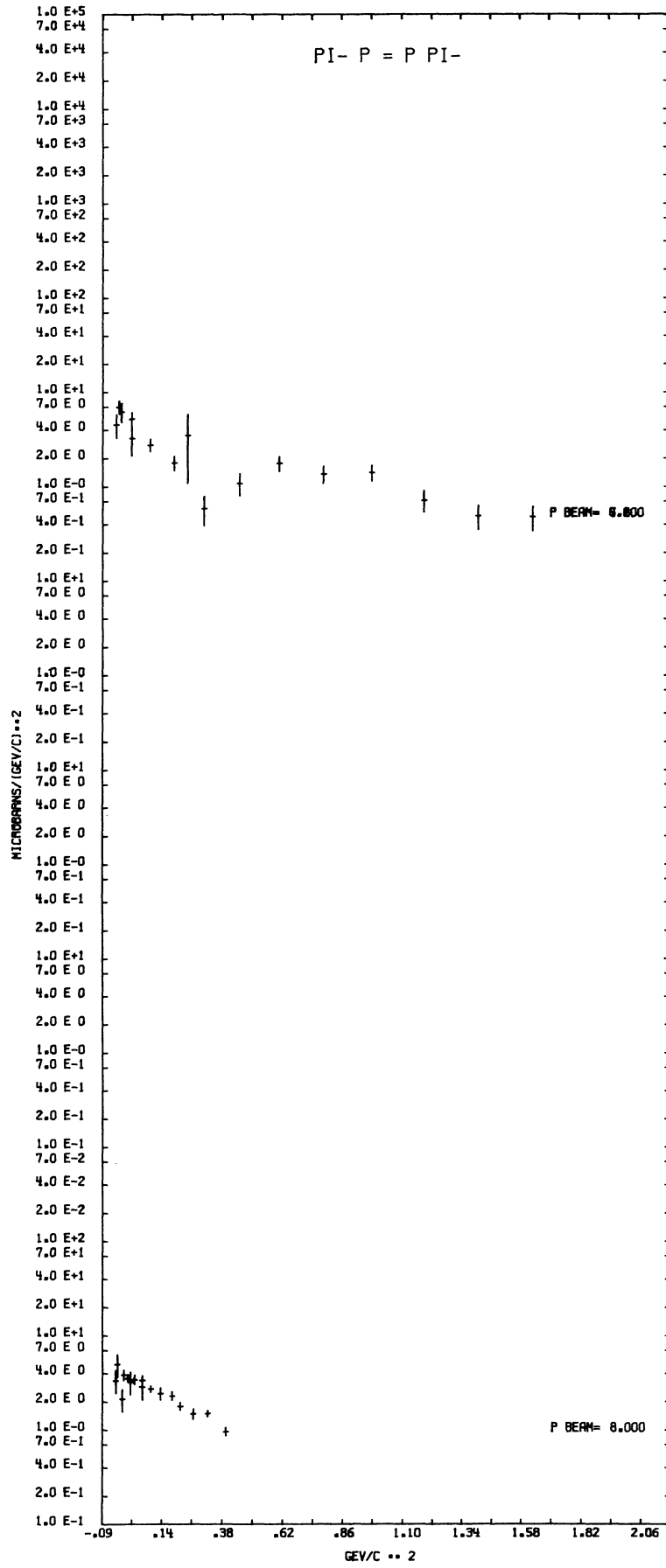


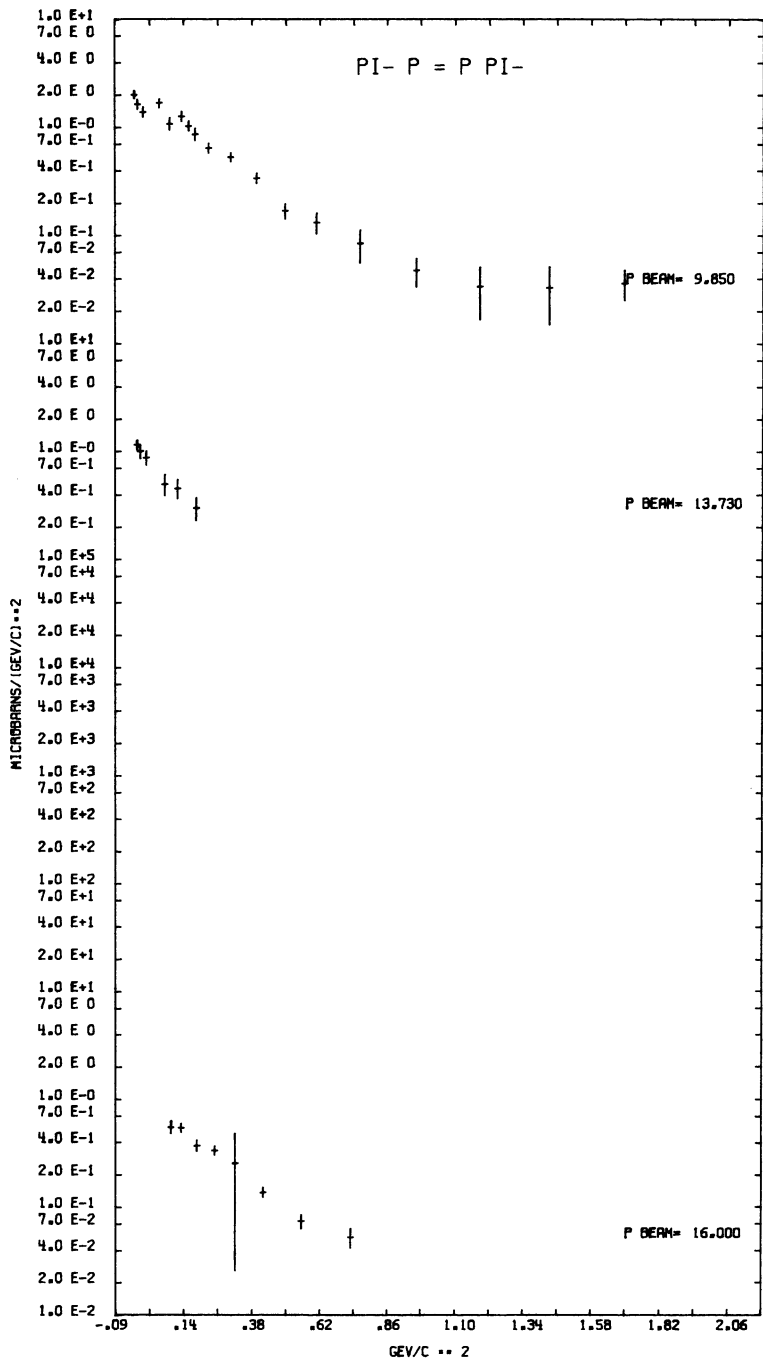




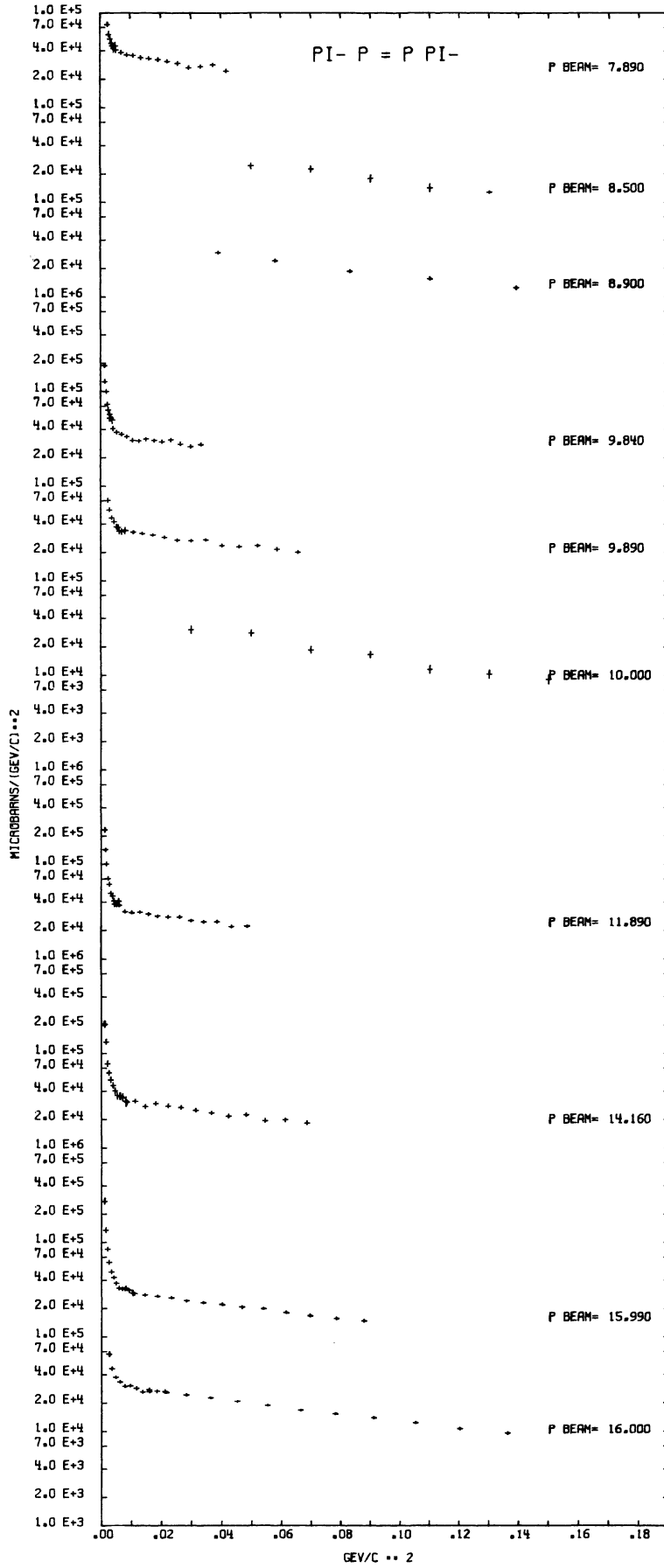


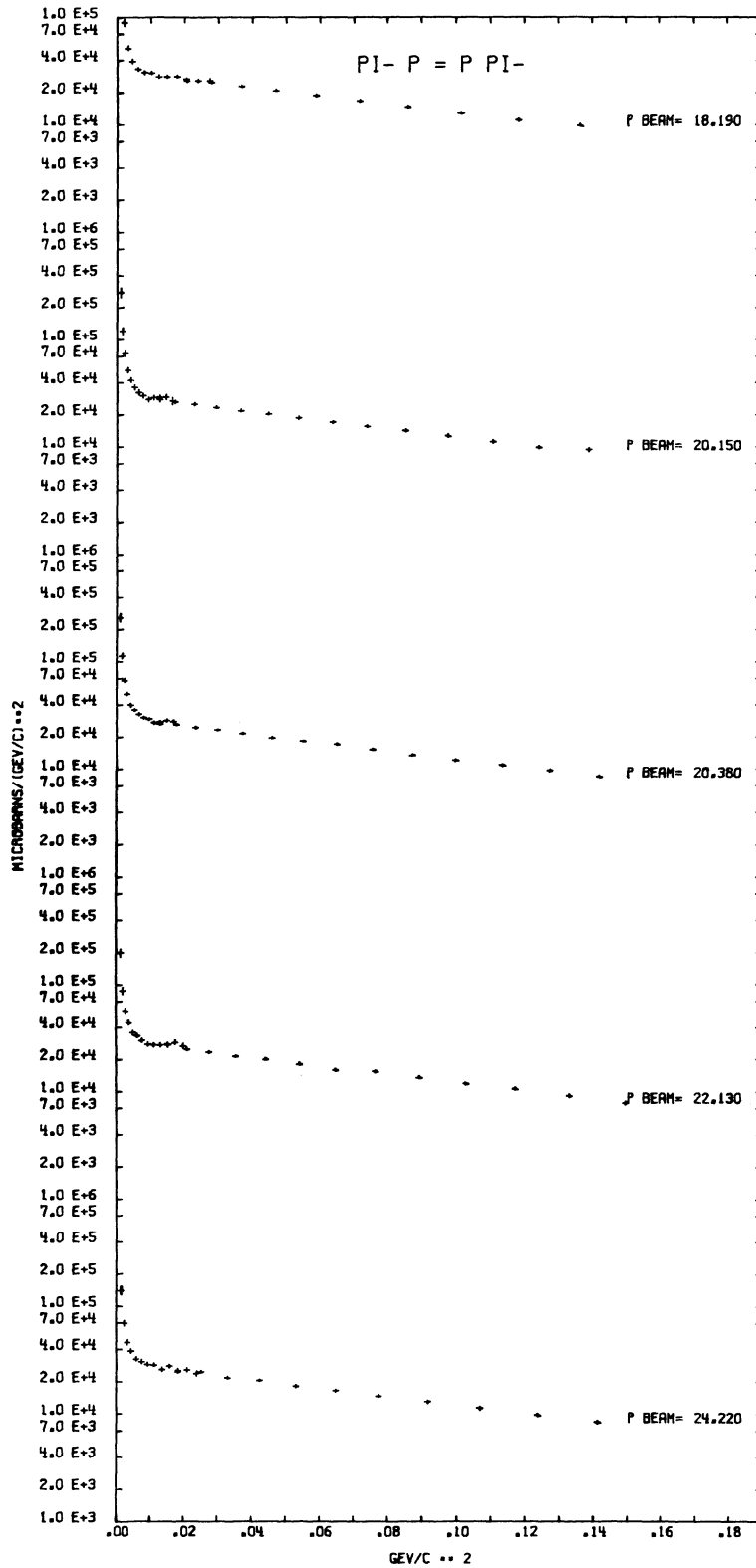




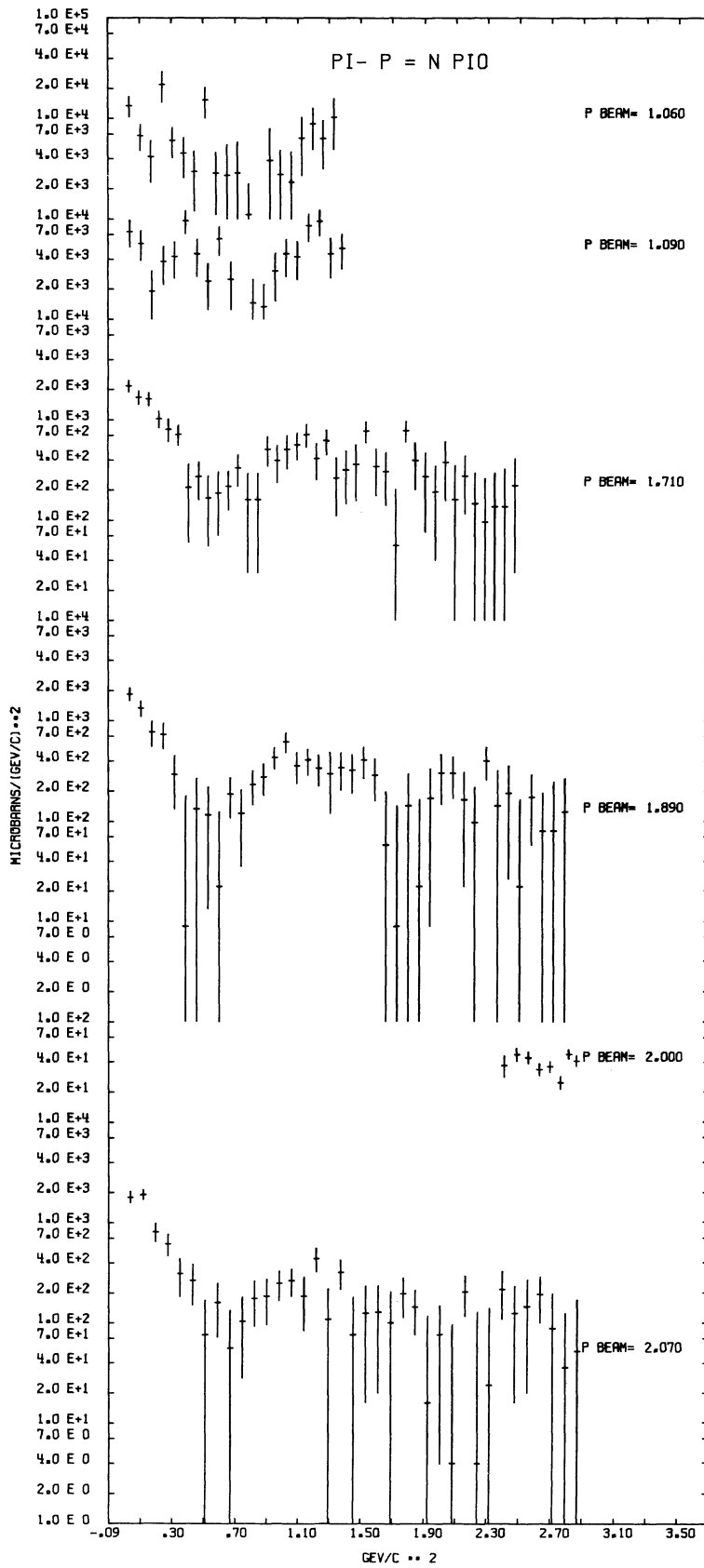


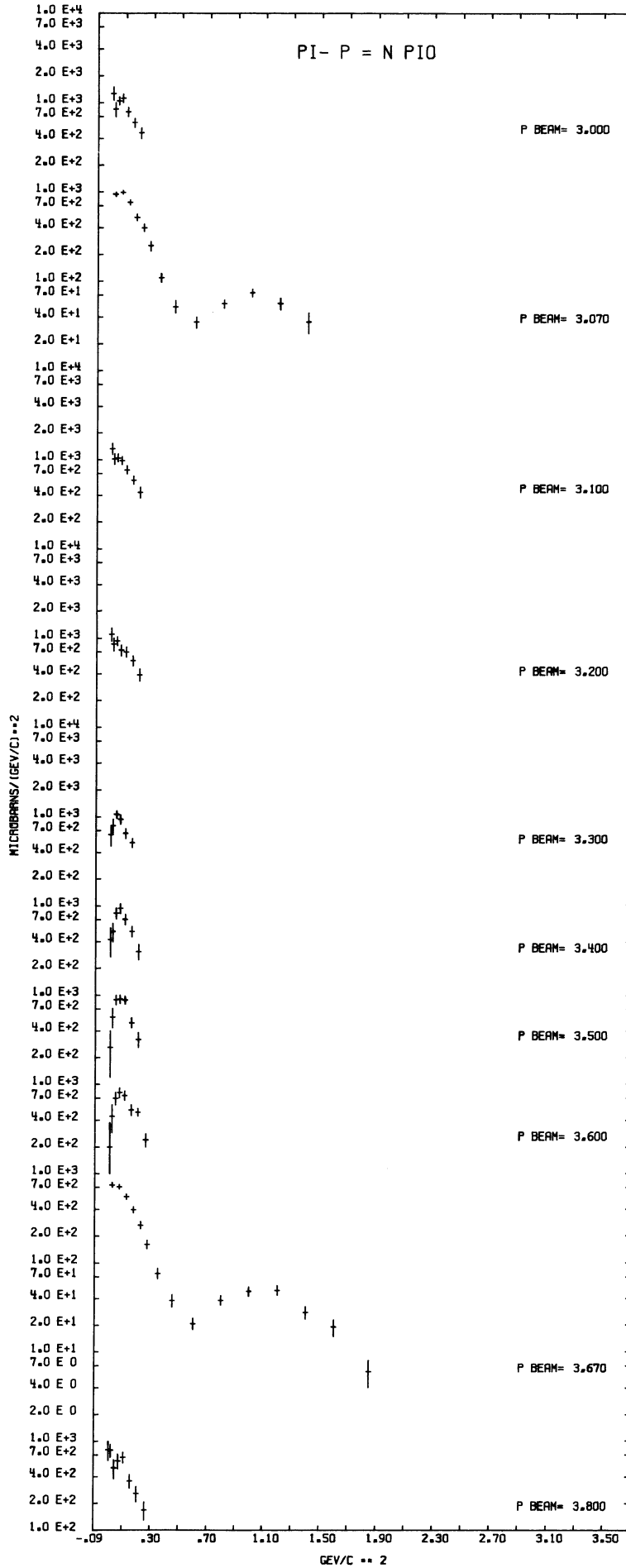
π \bar{p} ELASTIC COULOMB INTERF. REGION

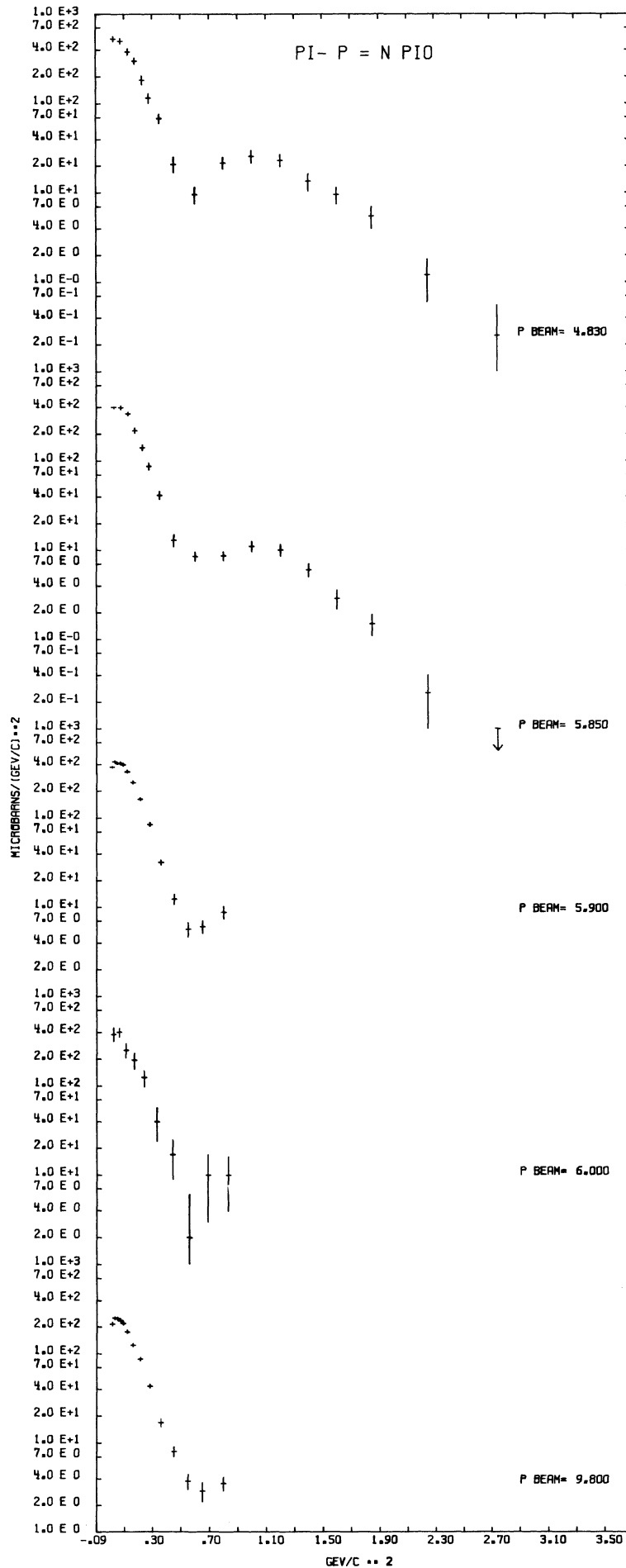


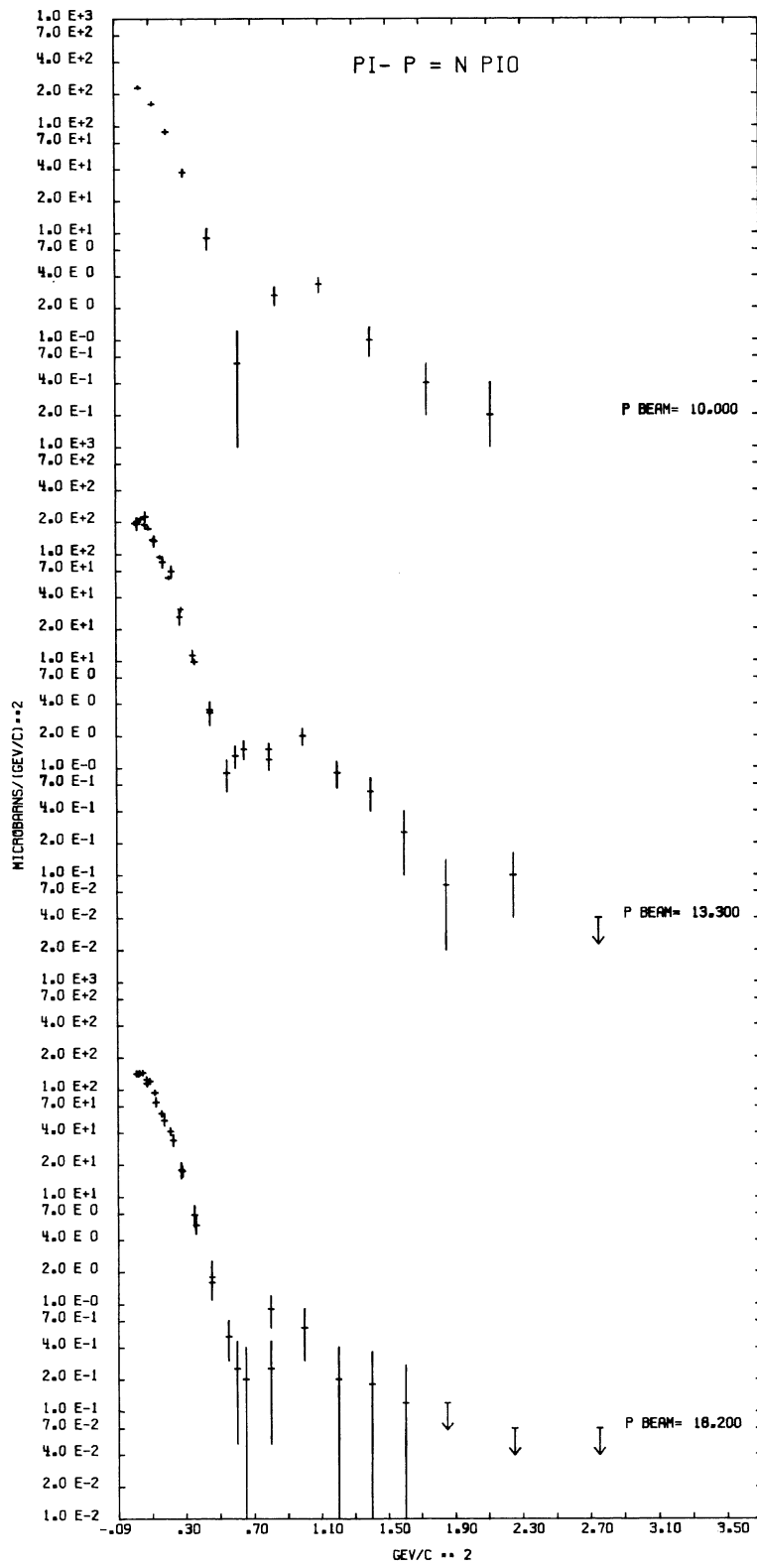


$$\pi^- p \rightarrow N\pi^0$$

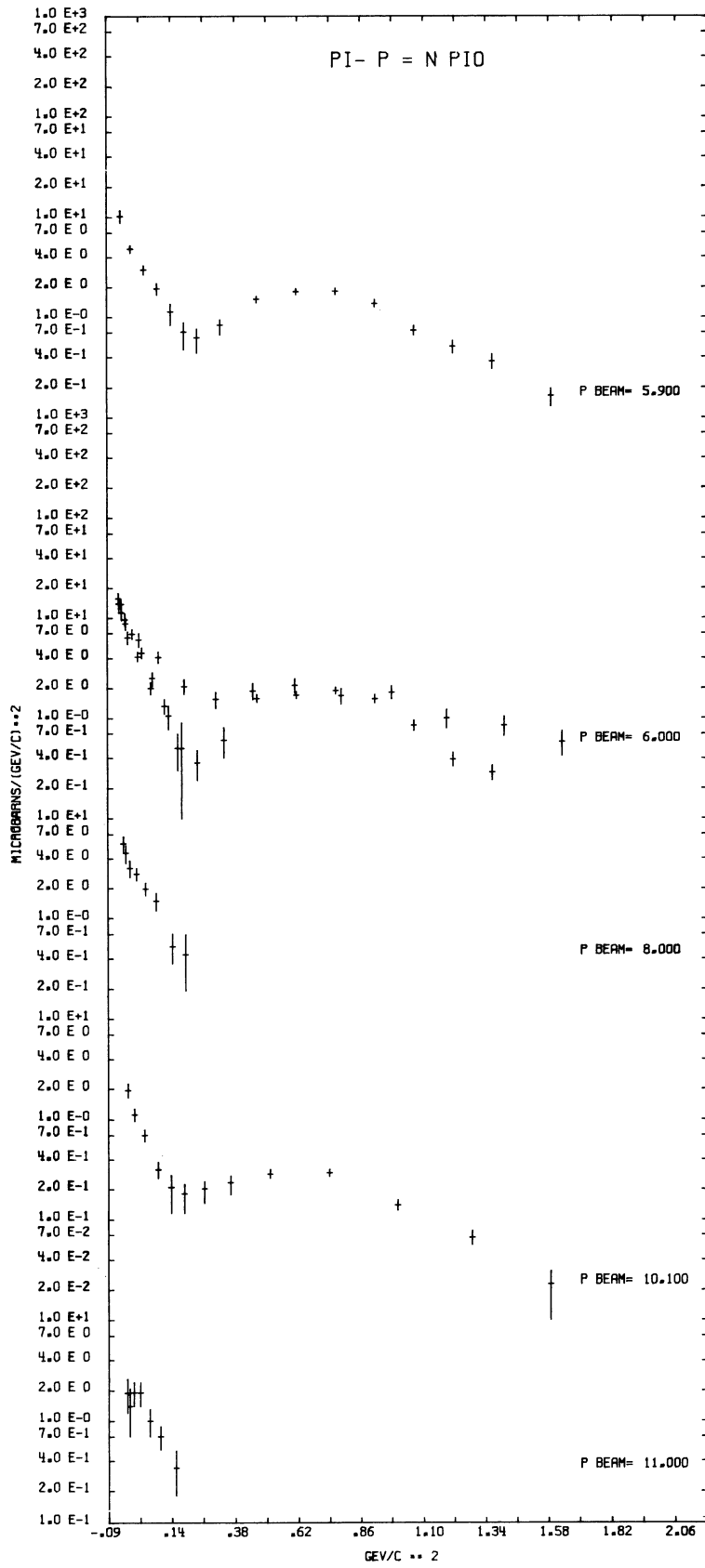


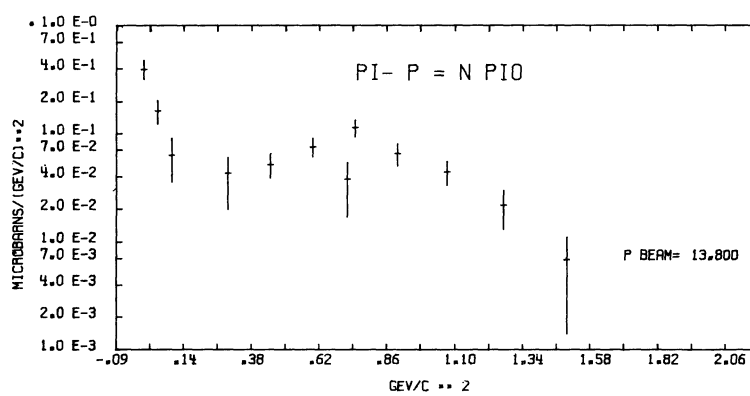




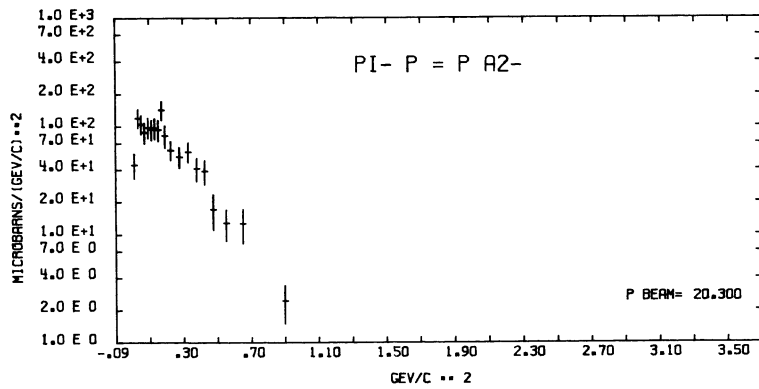
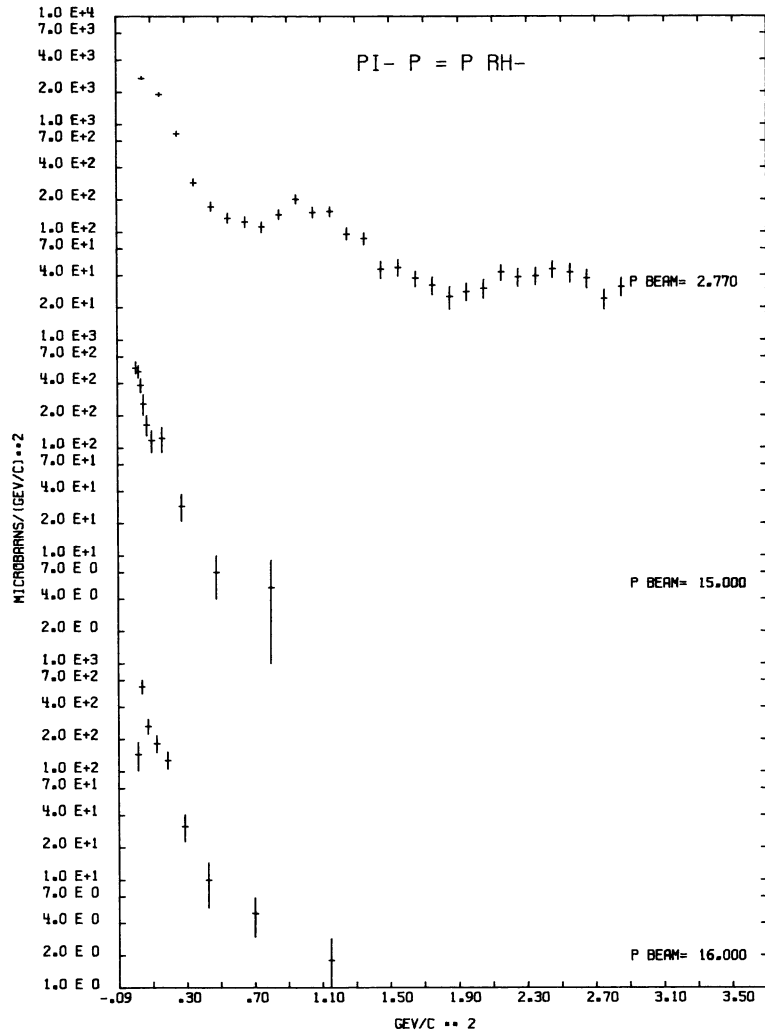


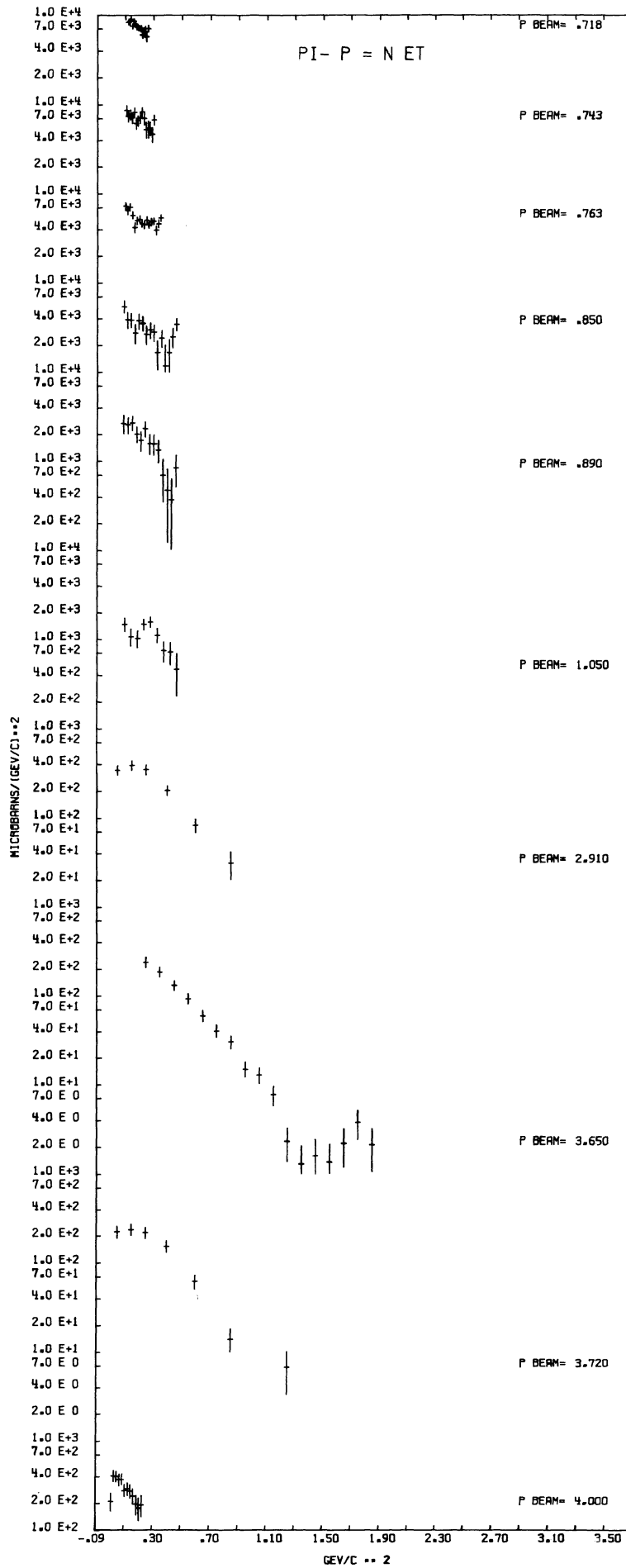
$\pi^- p \rightarrow N\pi^0$ BACKW. SCATT.

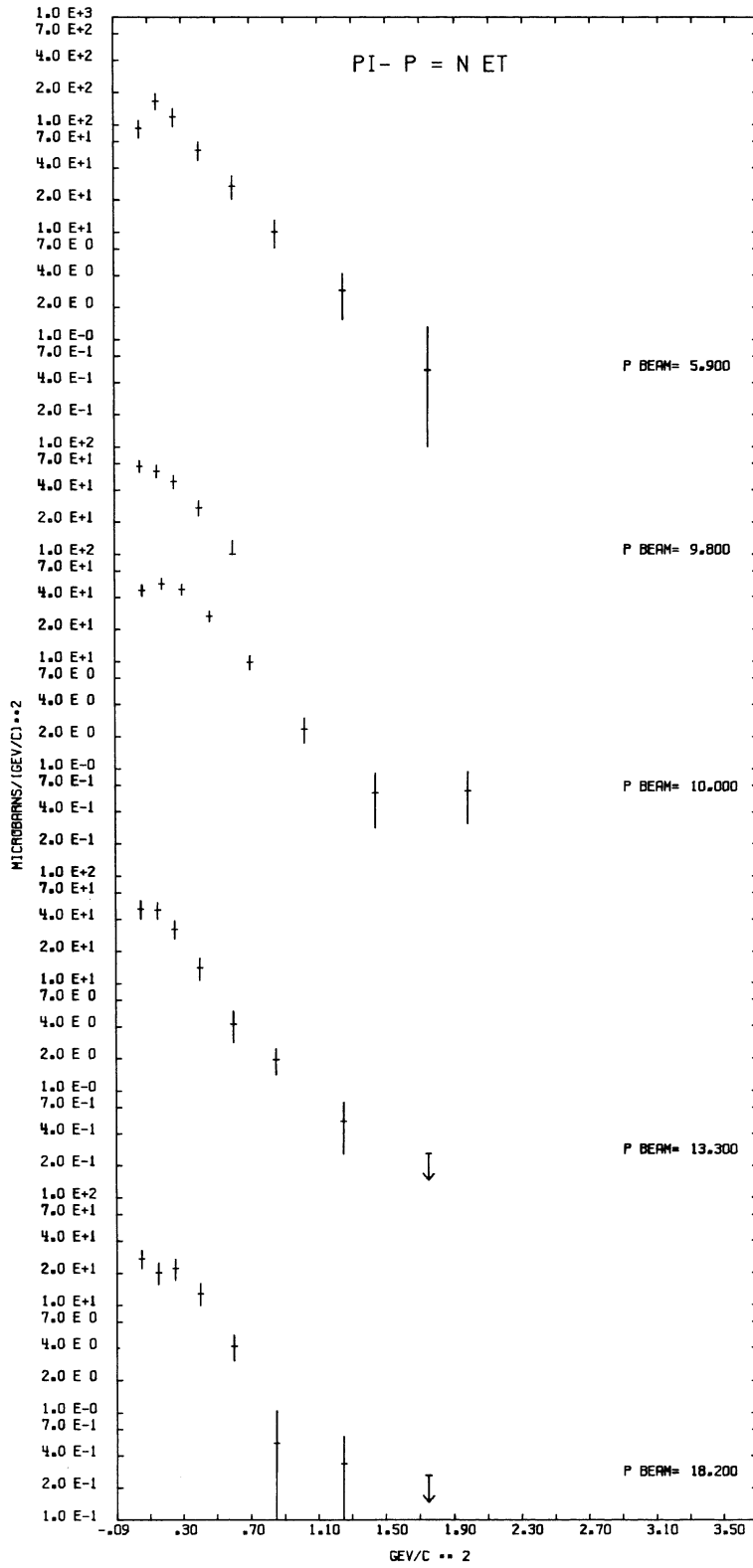


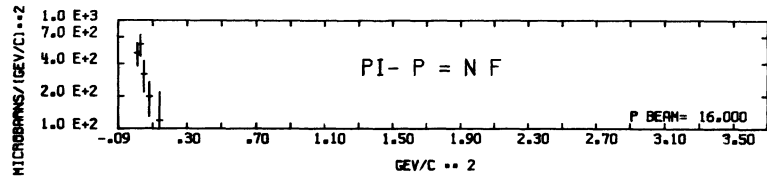
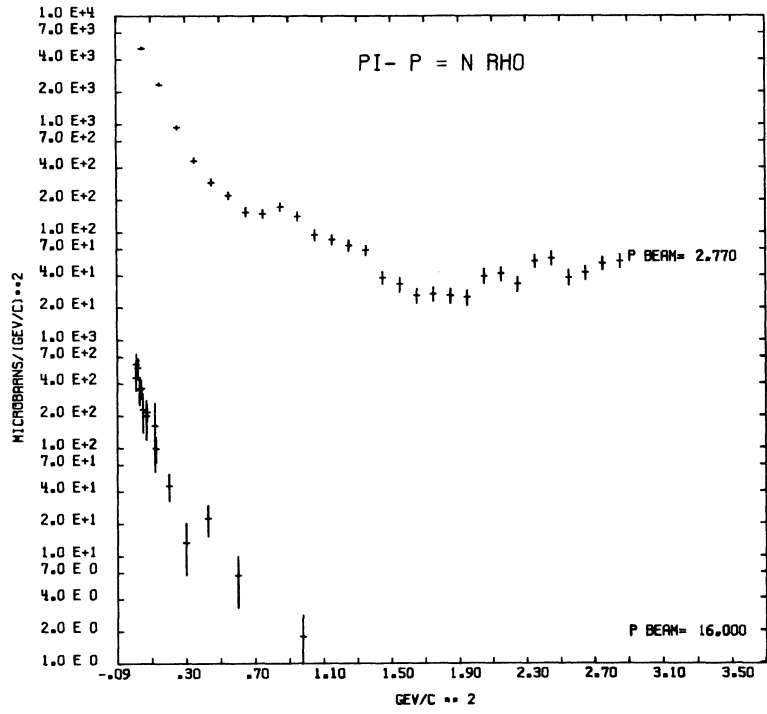


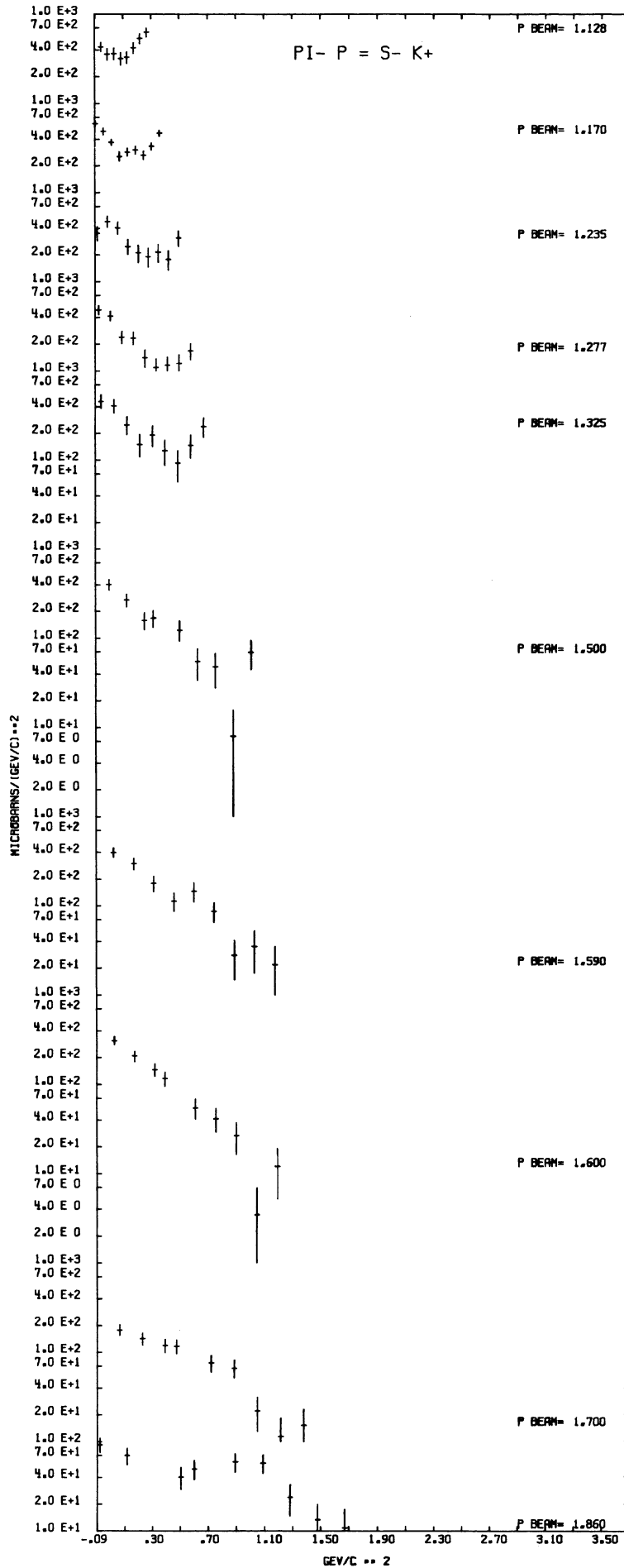
$\pi^- p \rightarrow$ INELASTIC

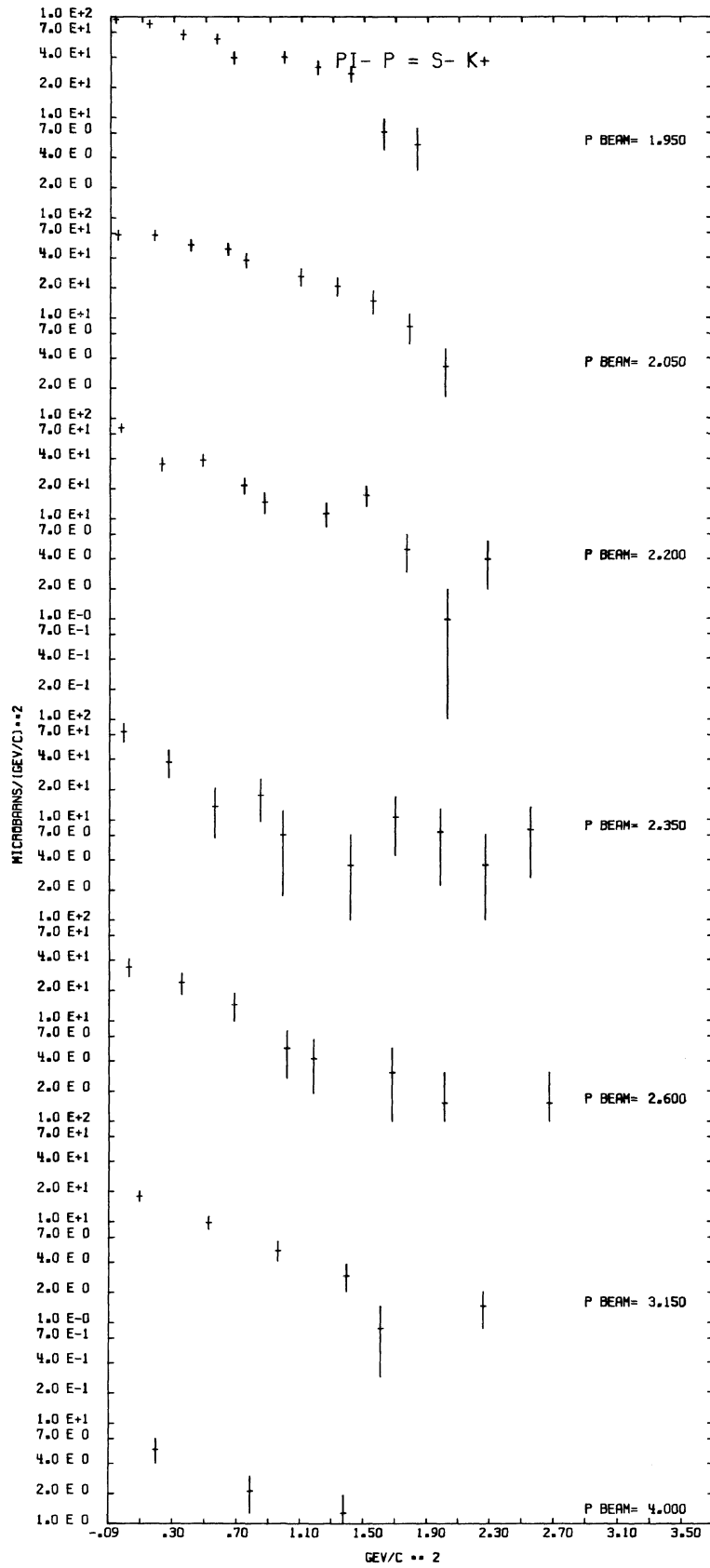


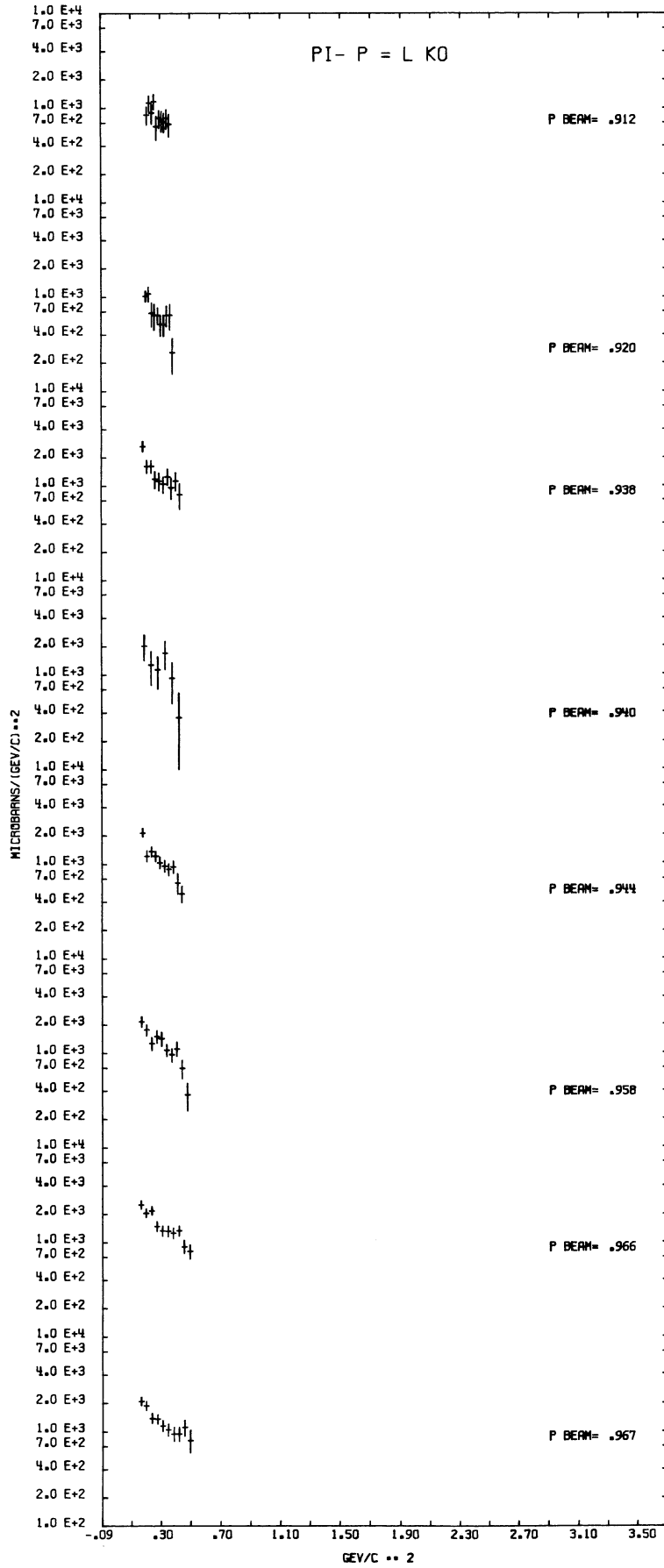


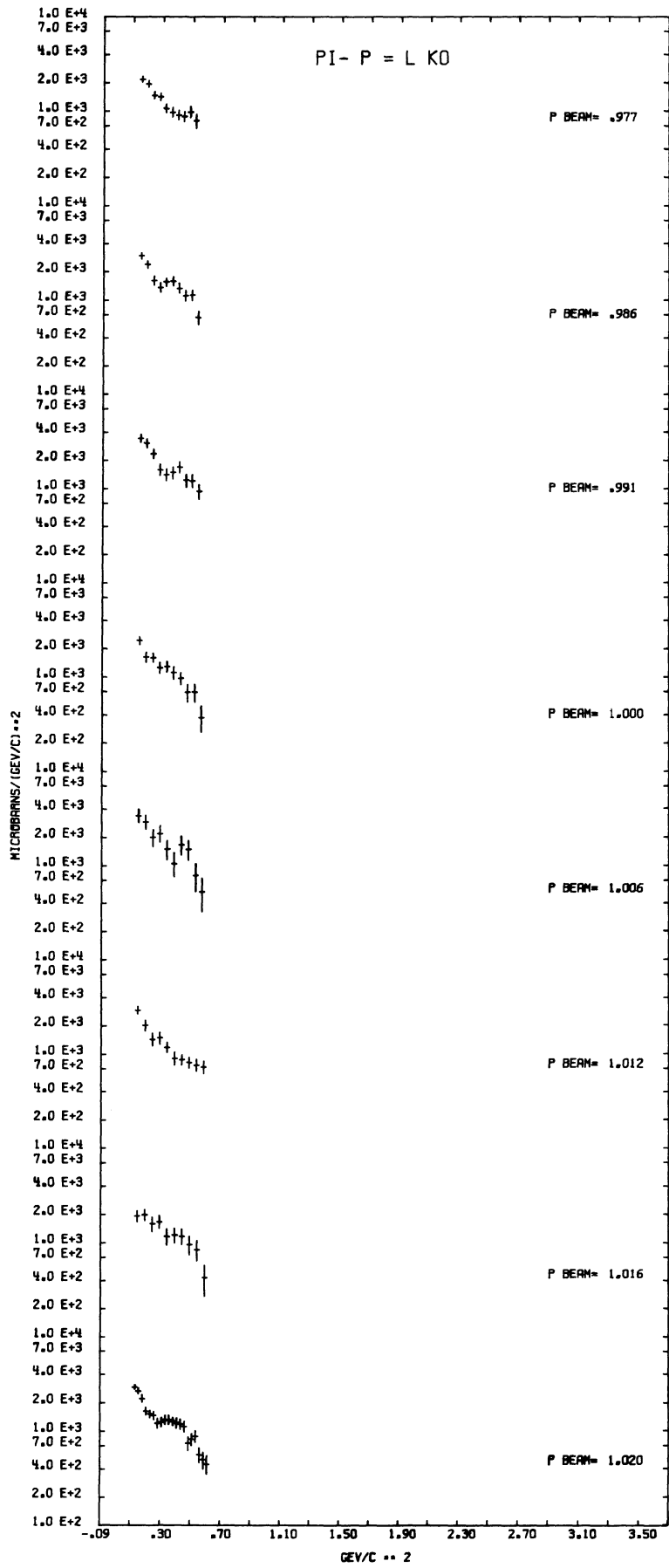


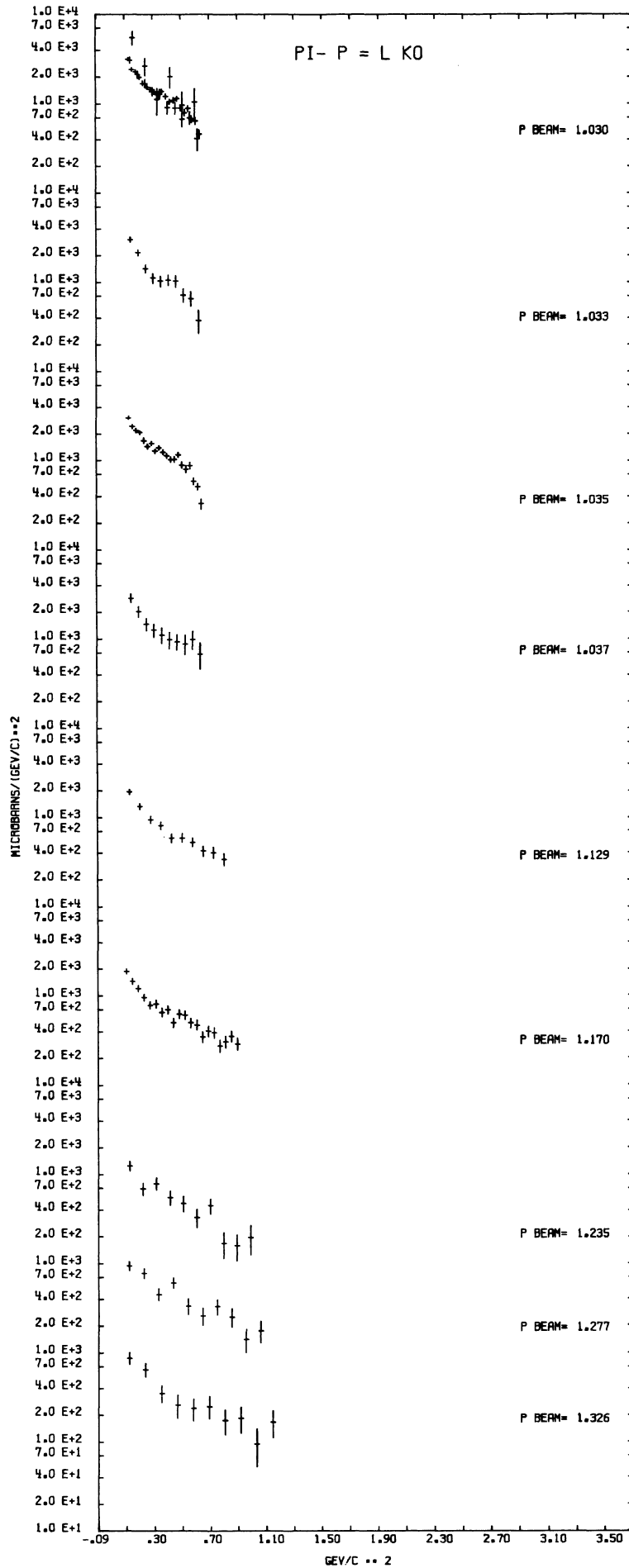


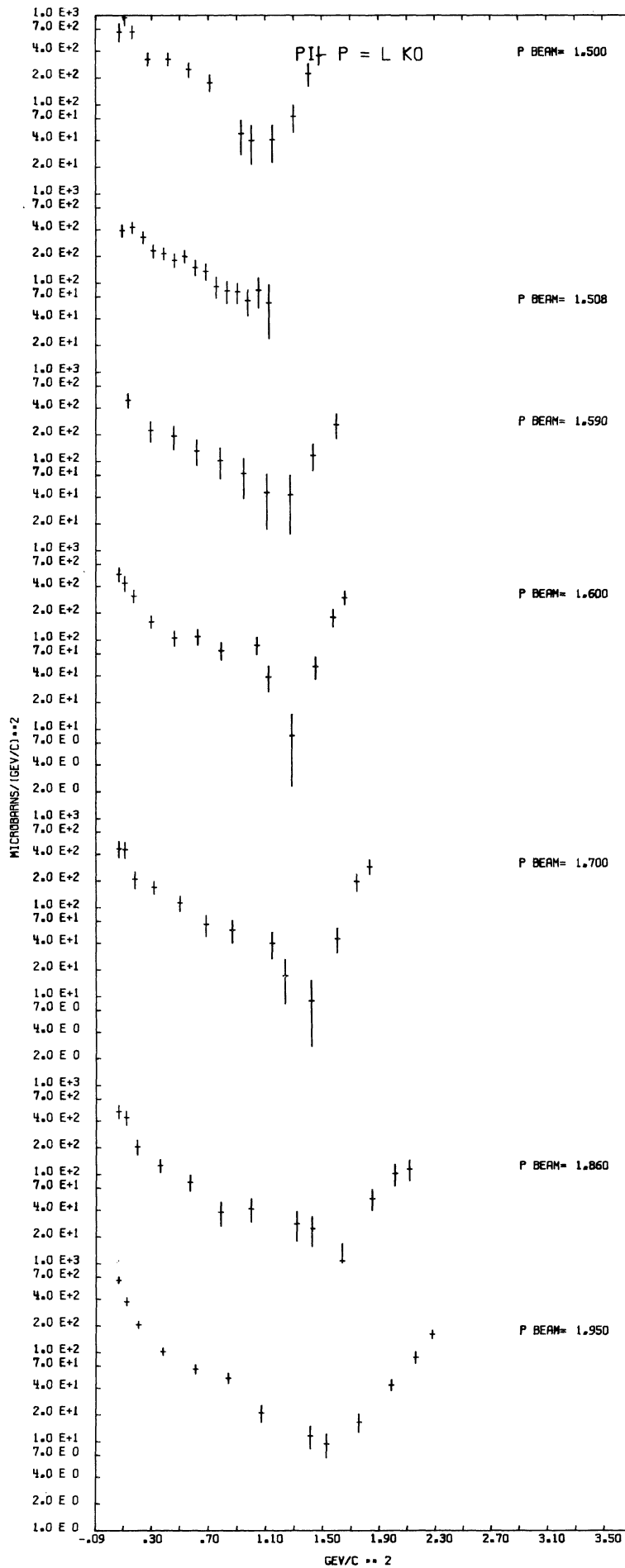


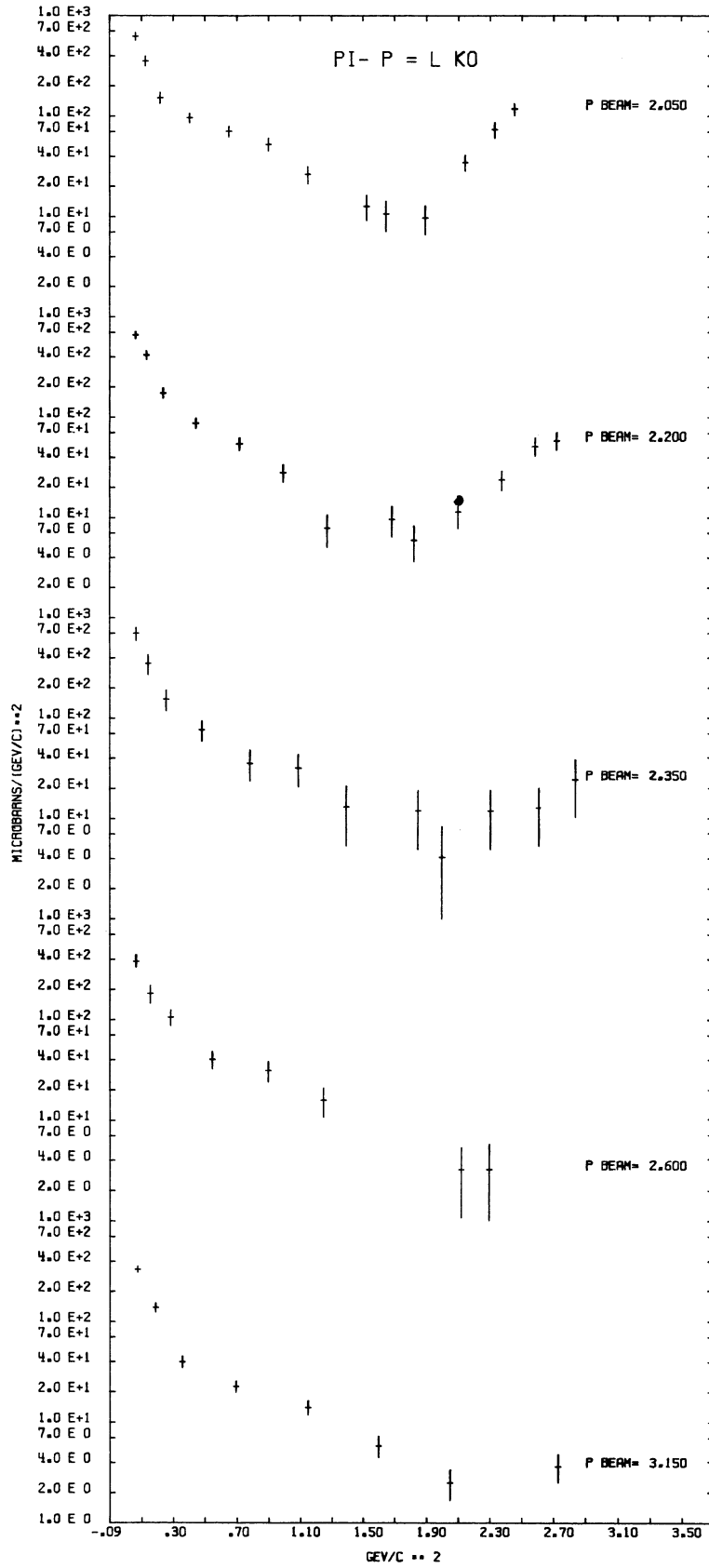


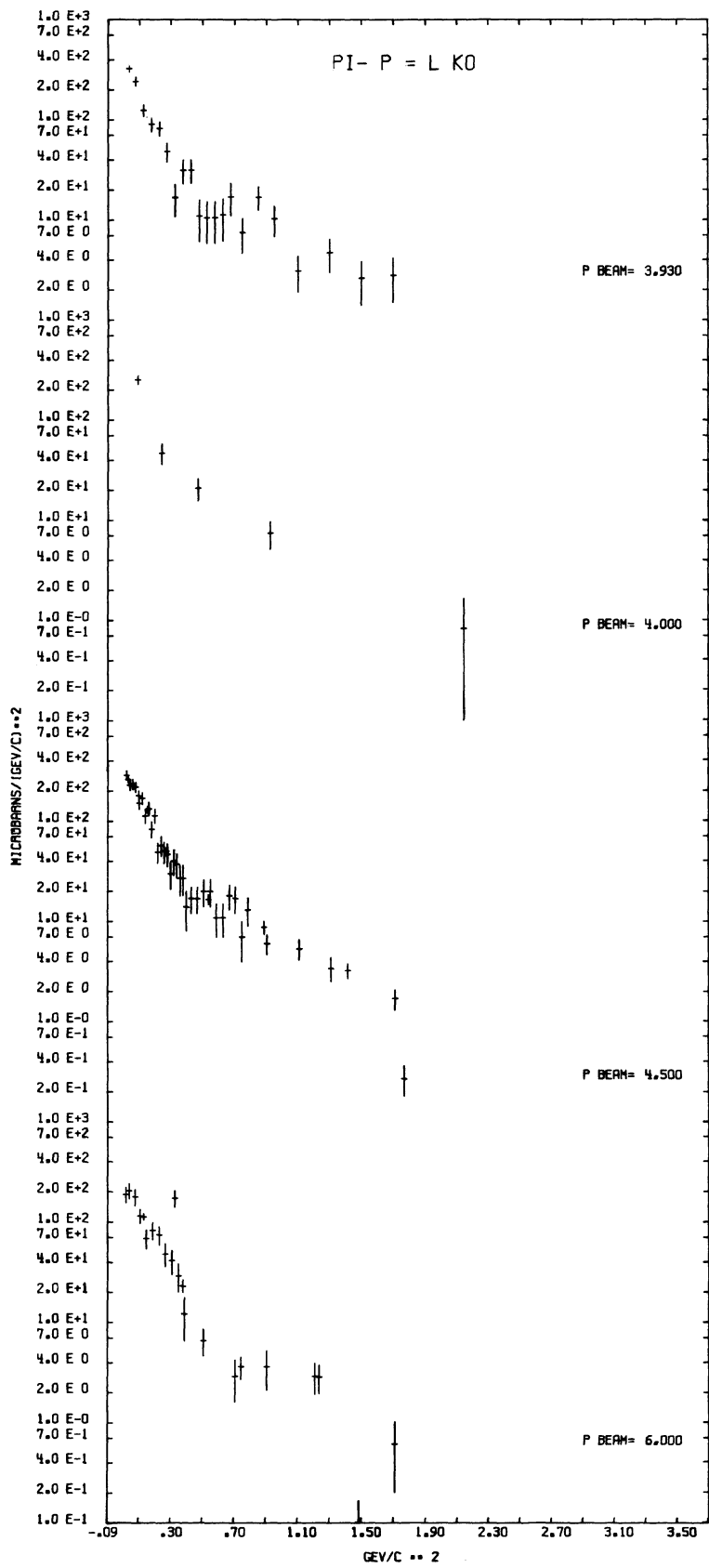


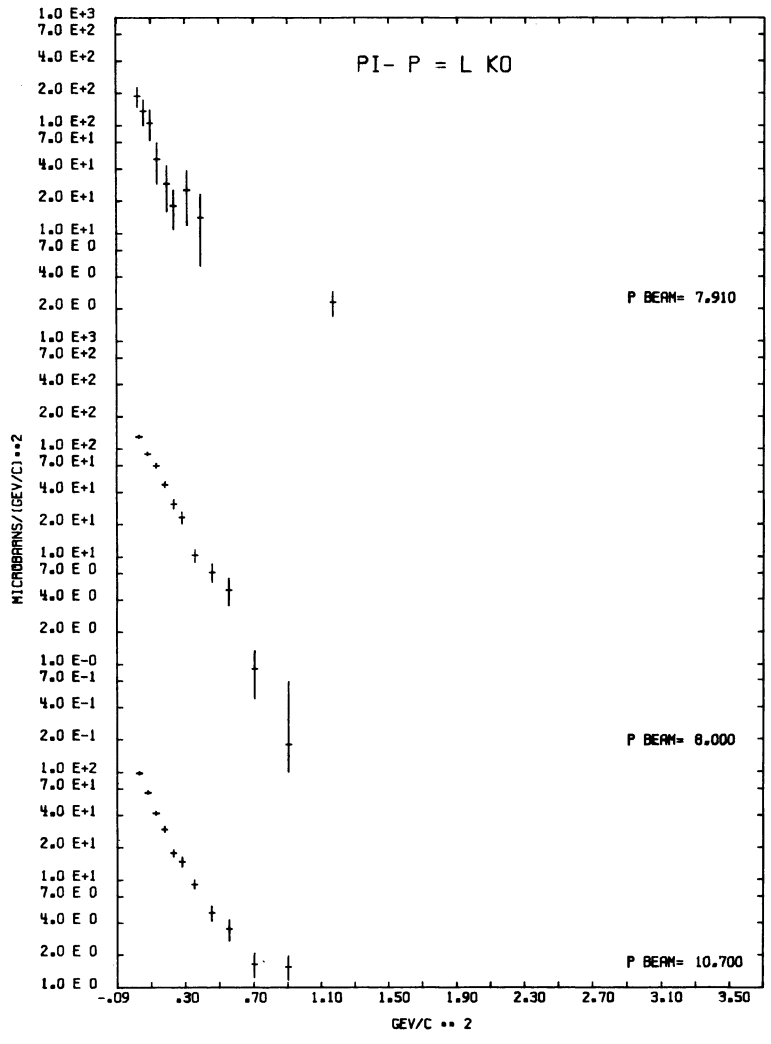


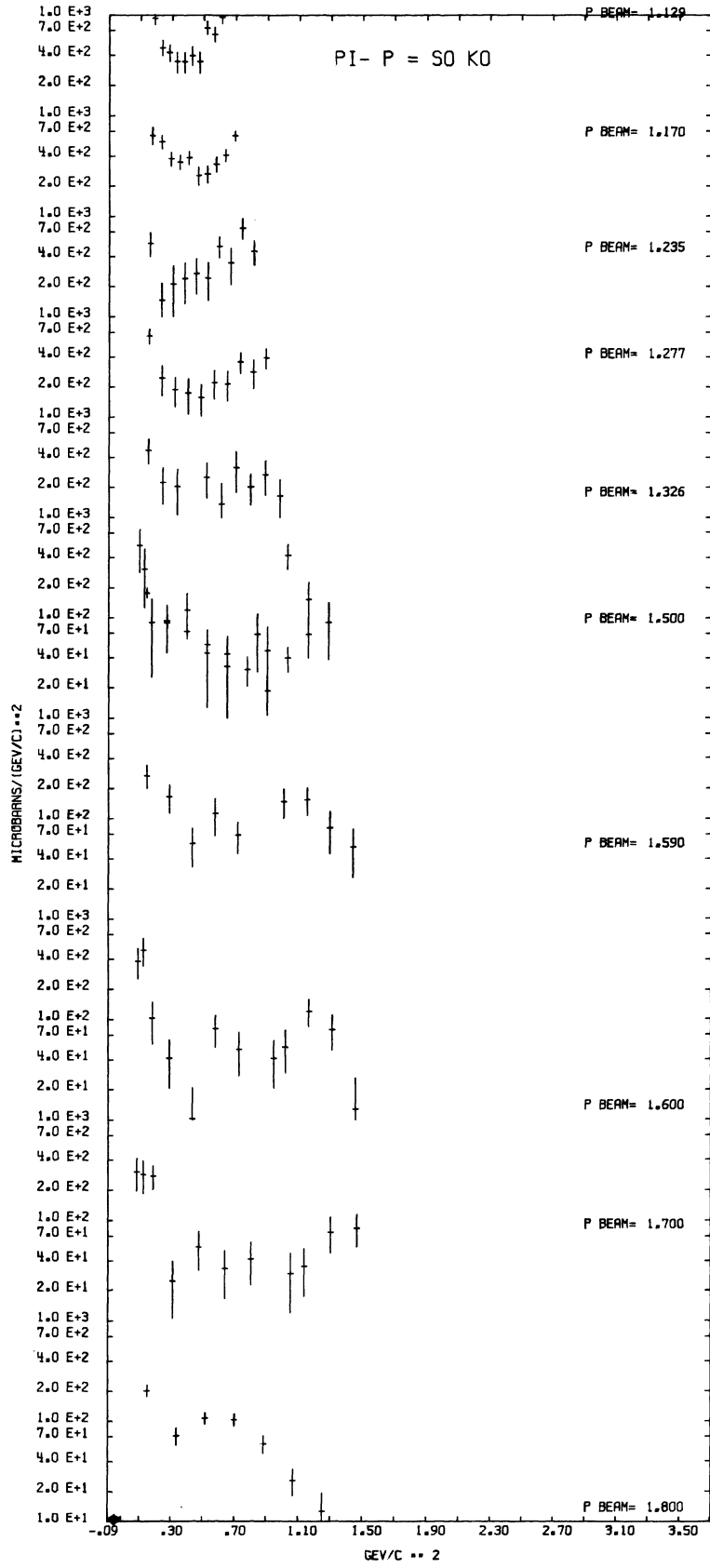


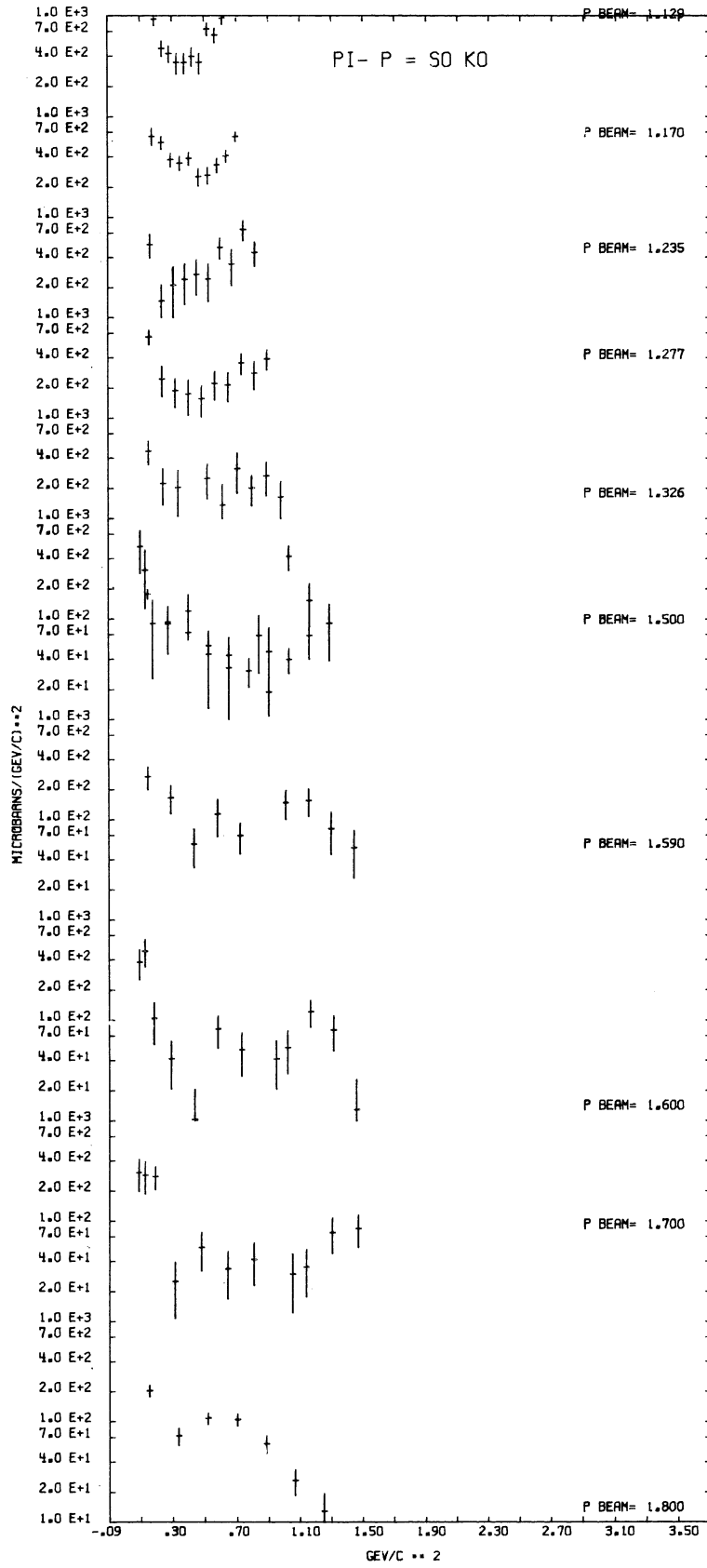


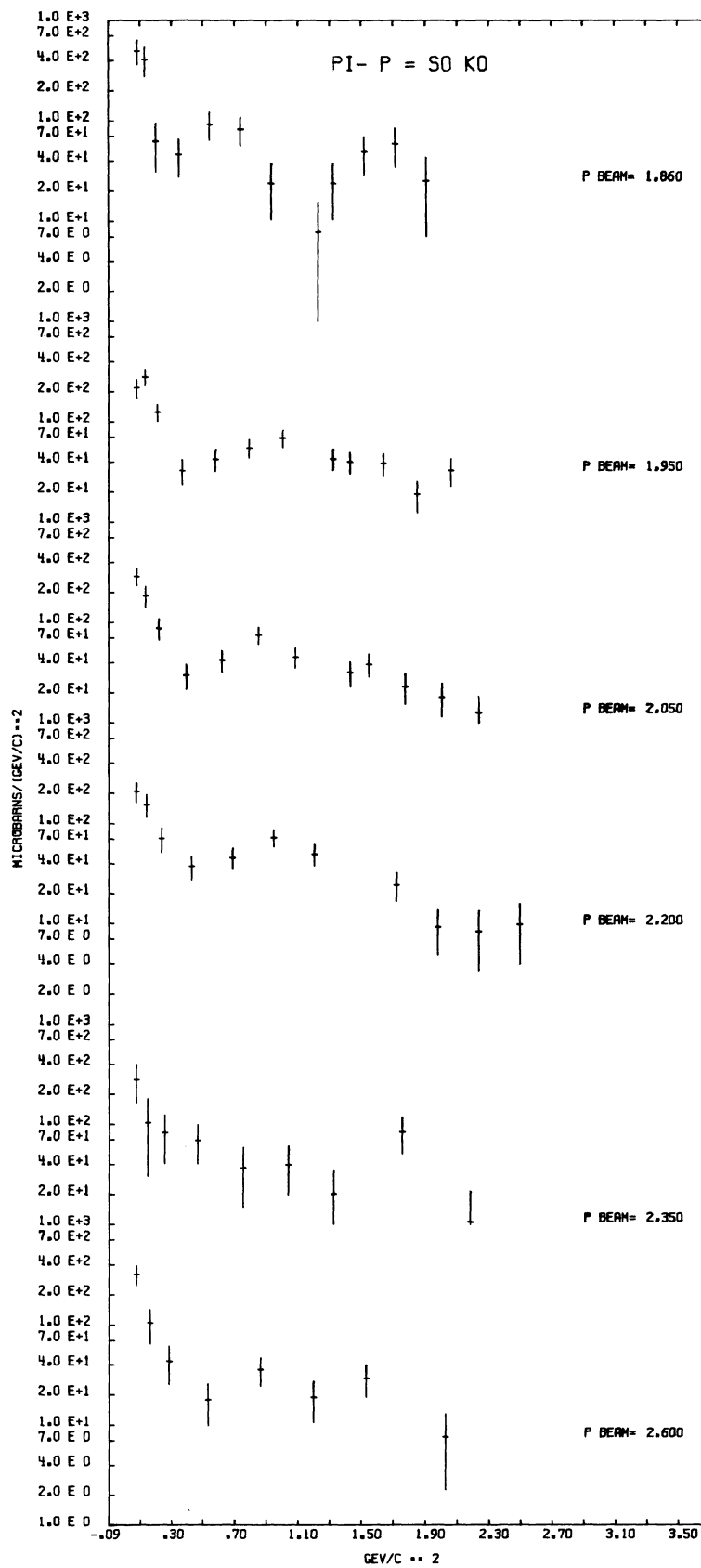


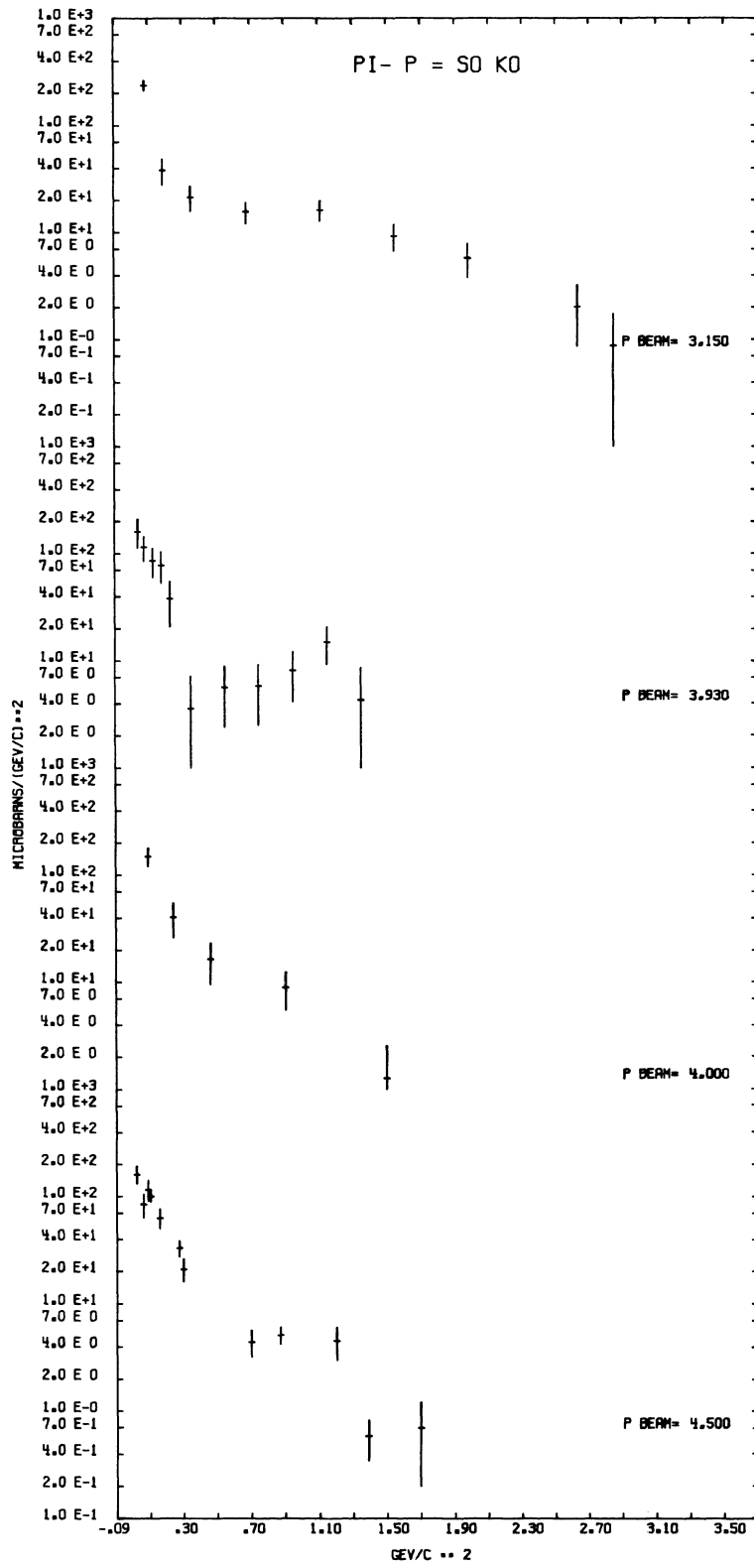


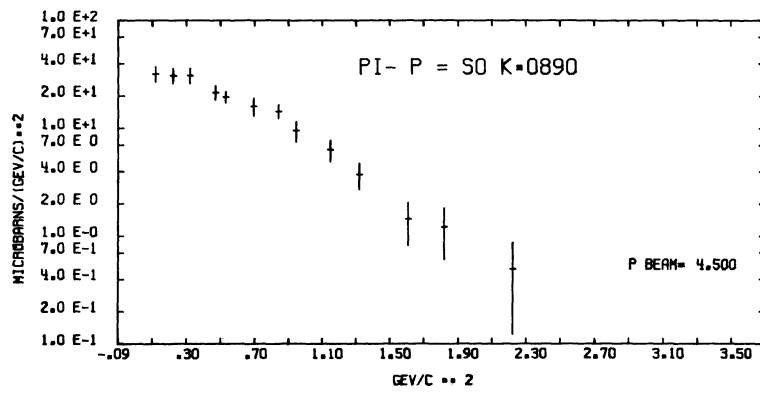
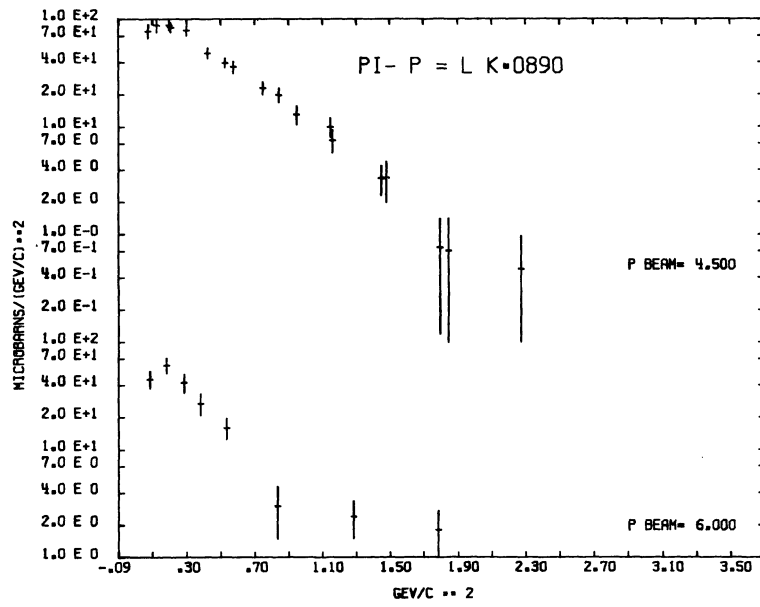


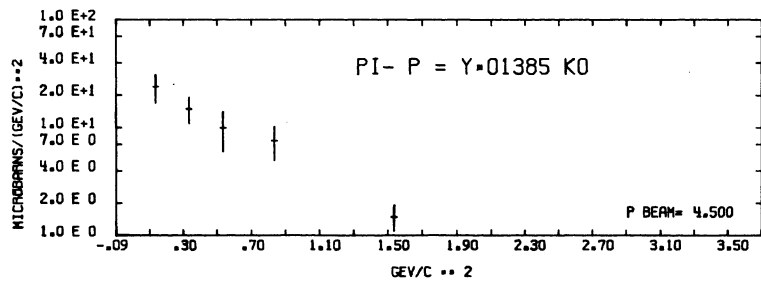
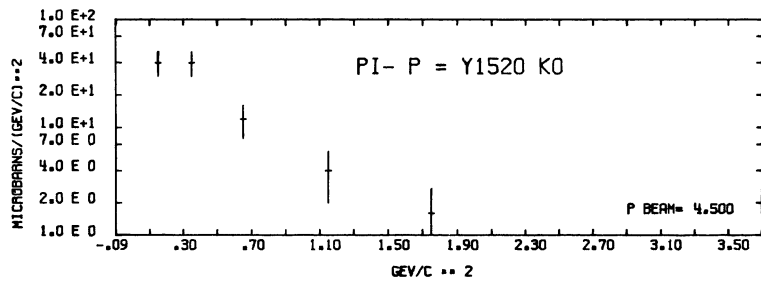
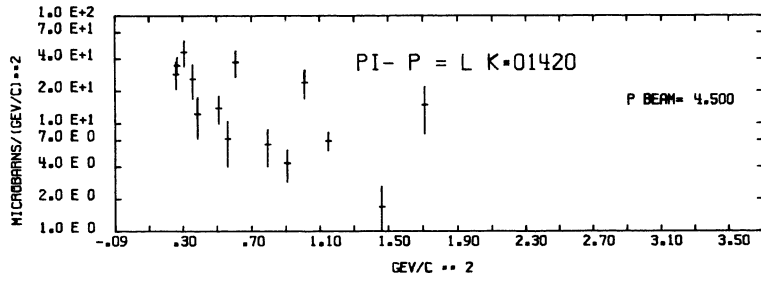




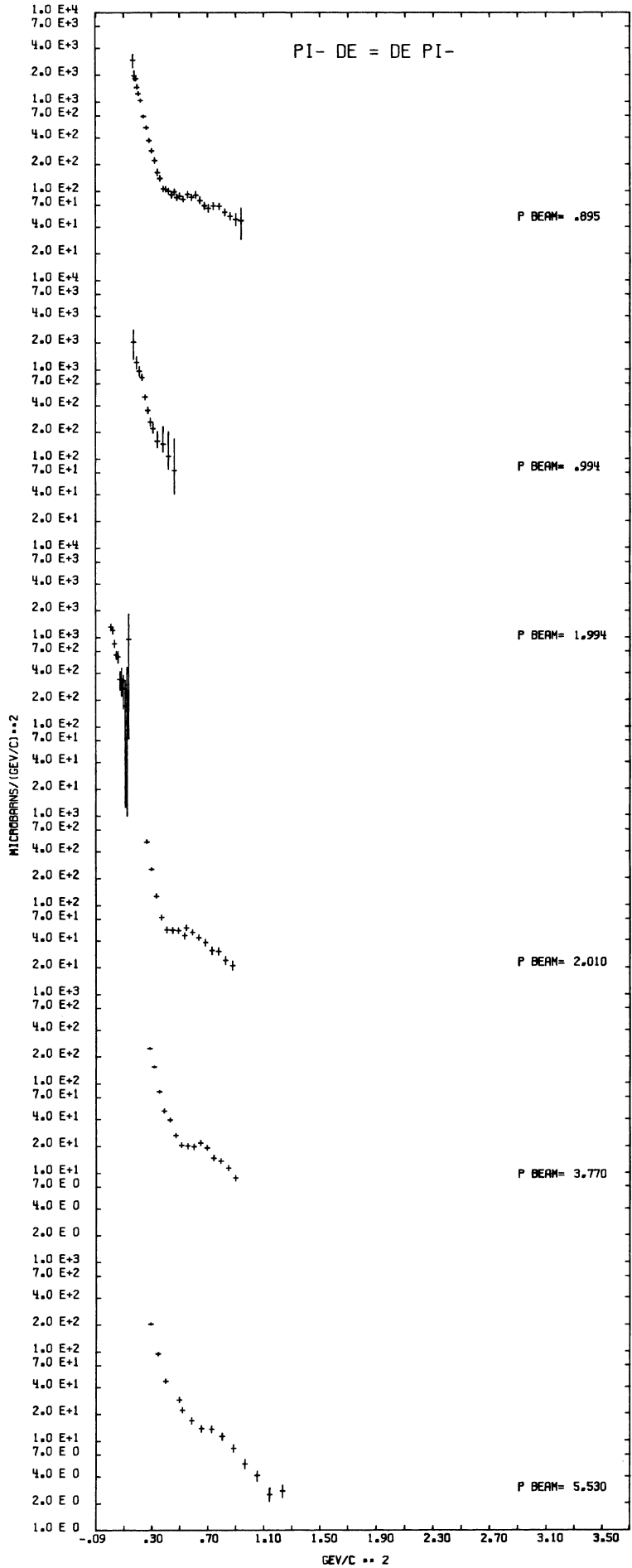








$$\pi^- D_e \rightarrow \pi^- D_e$$



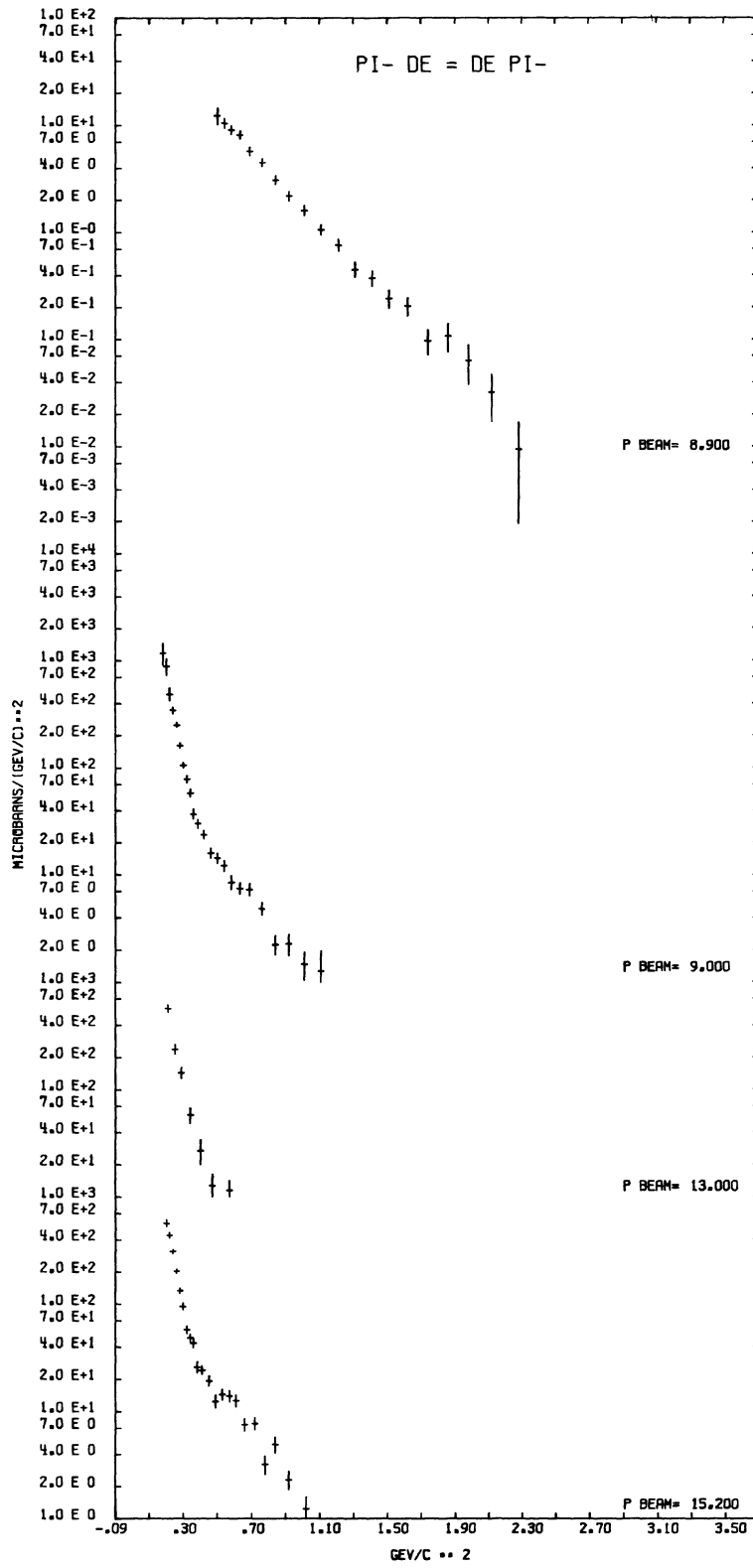


TABLE 7

The following table contains (we hope) all the references which are relevant to π N differential cross sections measurements, published before our deadline (\sim mid '73).

For each reference we give the reaction (or the initial state only if several reactions were studied in the same experiment), the beam momentum or kinetic energy (which of the two are given is specified in the same line by the label "MOMENTUM" or "KIN ENERGY"), the label "TABLE" or "GRAPH"; meaning: distributions given in the article are in tabular or graphical form, respectively, and the title of the article plus the reference.

The label appearing at the extreme right indicates what is our internal code for the reference. Its absence means, that the data given in the publication are not present on our data-base.

1	= PI=P N RHO THE REACTION $\pi^+p \rightarrow \rho^0 n$ AND $K^+p \rightarrow K^0 n$ AT 11.2 GEV/C	11.2	HYAMS,NP,87,1,68	MOMENTUM	GRAPH	
2	= PI+ P P A3+ OBSERVATION AND ANALYSIS OF THE 1660 MEV π^+p RESONANCE A3 IN 8 GEV/C π^+p INTERACTIONS	8.0	BARTSCH,NP,87,348,68	MOMENTUM	GRAPH	
3	= PI+P TEST OF ABSORPTION MODEL PREDICTIONS IN DOUBLE RESONANCE PRODUCTION BY 8.0 GEV/C π^+ MESONS ON PROTONS	8.0	BBNPST COLL.,NP,87,681,68	MOMENTUM	GRAPH	
4	= PI+P P PI+ EXPERIMENTAL EVIDENCE FOR THE ONSET OF BARYON EXCHANGE IN π^+p BACKWARD SCATTERING BELOW 3 GEV/C	3.0	BANAIGS,NP,88,31,68	MOMENTUM	TABLE	8126
5	= PI+P STRUCTURE IN DIFF. CROSS SECTION DISTRIBUTIONS OF TWO BODY REACTIONS IN 8 GEV/C π^+p INTERACTIONS	8.0	ABC COLL,NP,88,45,68	MOMENTUM	GRAPH	
6	= PI+P P PI+ ELASTIC BACKWARD SCATTERING OF PIONS AND KAONS		BAKER,NP,89,249,69	MOMENTUM	TABLE	8178
7	= PI+P STRANGE PARTICLE PRODUCTION IN 8 GEV/C π^+p , PION INTERACTIONS IN HYDROGEN	8.0	ADERHOLTZ,NP,811,259,69	MOMENTUM	GRAPH	
8	= PI+P N ET DIFFERENTIAL AND TOTAL CROSS SECTIONS FOR $\pi^+p \rightarrow n \eta$ FROM 718 TO 1050 MEV/C	718 1'05	DEINET,NP,811,495,69	MOMENTUM	TABLE	8129
9	= PI+P P P= ELASTIC SCATTERING OF 2.0 GEV/C NEGATIVE PIONS ON PROTONS	2.0	TULI,NP,812,79,69	MOMENTUM	GRAPH	
10	= PI+P P A1= STUDY OF THE A1 REGION IN π^+p AT 7 GEV/C	7.0	FAYOLLE,NP,813,40,69	MOMENTUM	GRAPH	
11	= PI+P S+ K+ A STUDY OF THE REACTION $\pi^+p \rightarrow \sigma^+ K^+$ AT 1.7 GEV/C	1.7	YU=LI=PAN,NP,816,61,70	MOMENTUM	GRAPH	
12	= PI+P P PI+ POSITIVE PION-PROTON ELASTIC SCATTERING AT 895,945,995 AND 1040 MEV/C	895 1'040	BAKER,NP,818,29,70	MOMENTUM	TABLE	8130
13	= PI+P L K0 POLAR. AND ANG. DISTRIBUTION IN THE BACKWARD PEAK OF $\pi^+p \rightarrow \lambda^0 K^0$ AT 4.0 AND 6.2 GEV/C	4.0 6'2	BEUSCH,NP,819,546,70	MOMENTUM	TABLE	
14	= PI+P Y++1385 K+ A STUDY OF THE REACTION $\pi^+p \rightarrow Y^{*++} 1385 K^+$ AT 1.7 GEV/C	1.7	YU=LI=PAN,NP,821,395,70	MOMENTUM	GRAPH	
15	= PI+P P PI= STUDY OF THE DIFF. CROSS SECTIONS FOR THE REACTIONS $\pi^+p \rightarrow \pi^+ p$, $\pi^+ \pi^+ n$ AND $\pi^+ \pi^+ p$ AT 2.77 GEV/C	2.77	BATON,NP,821,551,70	MOMENTUM	TABLE	8179
16	= PI+P STUDY OF CROSS SECTIONS AND SPIN-DENSITY MATRIX ELEMENTS FOR TWO-BODY REACTIONS IN 5 GEV/C π^+p TWO PRONGED INTERACTIONS	5.0	SCHOTANUS,NP,822,45,70	MOMENTUM	GRAPH	
17	= PI+P PRODUCTION OF STRANGE PARTICLES IN π^+p INTERACTIONS AT 5.5 GEV/C	5.5	COOPER,NP,823,605,70	MOMENTUM	GRAPH	
18	= PI+P P A2= PRODUCTION AND DECAY OF THE A2 MESON IN 7 GEV/C π^+p INTERACTIONS	7.0	JOHNSTON,NP,824,253,70	MOMENTUM	GRAPH	
19	= PI+P P PI+ ELASTIC SCATTERING OF POSITIVE PIONS ON POLARIZED PROTONS BETWEEN 0.82 AND 2.74 GEV/C	0.82 2'74	ALBROW,NP,825,9,70	MOMENTUM	TABLE	
20	= PI+P STUDY OF CROSS SECTIONS AND SPIN-DENSITY MATRIX ELEMENTS IN 5 GEV/C, π^+p FOUR PRONGED INTERACTIONS	5.0	POLS,NP,825,109,70	MOMENTUM	GRAPH	
21	= PI+P P PI= ELASTIC FORWARD AND BACKWARD SCATTERING OF π^+ AND K^+ MESONS AT 5.2 AND 7.0 GEV/C	5.2 7'0	BAKER,NP,825,385,71	MOMENTUM	TABLE	8180
22	= PI+P L K0 PHASE-SHIFT ANALYSIS OF $\pi^+p \rightarrow \lambda^0 K^0$	0. 2'0	WAGNER,NP,825,411,71	MOMENTUM	GRAPH	
23	= PI+P N++1236 F THE REACTION $\pi^+p \rightarrow F^+ N^{*++} 1236$ AT 13.1 GEV/C	13.1	GAIDOS,NP,826,229,71	MOMENTUM	GRAPH	
24	= PI+P L K0 STUDY OF THE $\lambda^0 K^0$ AND $\sigma^0 K^0$ FINAL STATES FROM π^+p INT AT 3.9 GEV/C	3.9	ABRAHOVICH,NP,827,477,71	MOMENTUM	TABLE	8181
25	= PI+P P PI= DCS FOR π^+p ELASTIC SCATTERING FROM 1.2 TO 3.0 GEV/C	1.2 3'0	APLIN,NP,832,253,71	MOMENTUM	TABLE	8174
26	= PI+P N PI0 STUDY OF $\pi^+p \rightarrow n \pi^0$ AND $\pi^+p \rightarrow n \eta$ REACTIONS IN NUCLEI AT 7.02 GEV/C	7.02	GUISAN,NP,832,681,71	MOMENTUM	GRAPH	
27	= PI+P P PI+ π^+p ELASTIC SCATTERING AT 3.6 GEV/C	3.6	HAC NAUGHTON,NP,833,101,71	MOMENTUM	TABLE	8182
28	= PI+P N++1236 RHO $N^{*++} 1236$ RHO AND $N^{*++} 1236$ ON FINAL STATES AT 8.45 GEV/C	8.45	BLOODWORTH,NP,835,29,71	MOMENTUM	TABLE	8189
29	= PI+P N++1236 PI0 STUDY OF DELTA++ PRODUCTION IN THE REACTION $\pi^+p \rightarrow \pi^+ \pi^+ \pi^0$ AT 13.1 GEV/C	13.1	SCHARENQUIVEL,NP,836,363,72	MOMENTUM	GRAPH	
30	= PI+P P PI+ π^+p ELASTIC SCATTERING BETWEEN 0.6 AND 0.8 GEV/C	0.6 0'8	BOWLER,NP,837,133,72	MOMENTUM	TABLE	8136
31	= PI+P STUDY OF FOUR PRONG EVENTS IN π^+p INTERACTIONS AT 3.5 GEV/C	3.5	RONAT,NP,838,20,72	MOMENTUM	GRAPH	
32	= PI+P L K*0890 STUDY OF THE $K^*0 \lambda^0$ AND $K^*0 \sigma^0$ FINAL STATES FROM π^+p INTERACTIONS AT 3.9 GEV/C	3.9	ABRAHOVICH,NP,839,189,72	MOMENTUM	GRAPH	
33	= PI+P P A2= A1 AND A2 PRODUCTION IN $\pi^+p \rightarrow \pi^+ \pi^+ \pi^0$ AND $\pi^+ \pi^+ \pi^0$ REACTIONS AT 7.0 GEV/C	7.0	MORSE,NP,843,77,72	MOMENTUM	GRAPH	
34	= PI+P PRH+ STUDY OF THE EXCHANGE MECHANISM IN THE RH PROD. REACTIONS $\pi^+p \rightarrow \rho^+ N$ AT 16 GEV/C	16.0	BARTSCH,NP,846,46,72	MOMENTUM	GRAPH	8183
35	= PI+P P PI= π^+p FORWARD ELASTIC SCATTERING NEAR 1 GEV/C	1.0	ABILLON,NP,846,630,72	MOMENTUM	TABLE	8140
36	= PI+P P PI+ π^+p ELASTIC SCATTERING AT 1200 MEV	1.2	BERTANZA,NC,19,467,61	KIN ENERGY	TABLE	8184
37	= PI+P P PI= π^+p SCATTERING AT 516,616,710,897 AND 1088 MEV	516 1'088	GRARD,NC,22,193,61	KIN ENERGY	GRAPH	8167
38	= PI+P P PI+ ELASTIC SCATTERING π^+p AT 1 GEV/C	1.0	BINDON,NC,24,334,62	KIN ENERGY	GRAPH	

39	= PI P P PI PION=PROTON SCATTERING AT 600 MEV	600	BARLOTAUD,NC,26,1409,62	KIN ENERGY	GRAPH	8164
40	= PI=P P PI= ELASTIC SCATTERING OF 7 GEV/C PI= M=8ONS ON PROTONS	7.0	HOFMOKOL,NC,28,118,63	MOMENTUM	GRAPH	
41	= PI=P PI=P INTERACTIONS AT 1.59 GEV/C	1.59	ALITTI ,NC,29,815,63	MOMENTUM	TABLE	8138
42	= PI+P PI+P INTERACTIONS AT 4.0 GEV/C = TH=PRONG EVENTS	4.0	ABBMLN COLL,NC,31,729,64	MOMENTUM	GRAPH	
43	= PI+P P PI+ ELASTIC PI+P SCATTERING AT 1.6 GEV/C	1.6	DAUDIN,NC,33,1300,64	MOMENTUM	TABLE	8139
44	= PI+P INVESTIGATION OF EXCHANGE MECHANISM IN THE REACTION PI+P=PI+P PI+ P I O AT 4.0 GEV/C	4.0	ABBMLN COLL,NC,34,495,64	MOMENTUM	GRAPH	
45	= PI=P N P I O DIFFERENTIAL CROSS SECTION OF THE PI=P=PI O N PROCESS AT 930 MEV	.930	BIGI,NC,34,878,64	KIN ENERGY	GRAPH	8172
46	= PI+P N++1236 RHO EXCHANGE MECHANISM FOR THE REACTION PI+P=N++RHO AND N++P O M	4.0	ABBMLN COLL,NC,35,659,65	MOMENTUM	GRAPH	
47	= PI P P PI PI(+,+)P AND P=P ELASTIC SCATT. AT 8.5,18.4 AND 18.4 GEV/C	8.5 18.4	HARTING,NC,38,60,65	MOMENTUM	TABLE	8135
48	= PI+P QUASI TWO BODY PROCESSES IN THE REACTION PI+P=P2PI+PI+P I O AT 2.75 GEV/C	2.75	SOBB COLL.,NC,40,273,65	MOMENTUM	GRAPH	
49	= PI+P N++1236 RHO PI+P=N++1236 RHO REACTION AT 2.75 GEV/C	2.75	ARMENISE,NC,41A,159,66	MOMENTUM	GRAPH	
50	= PI=P=STRANGE PARTICLES ANALYSIS OF STRANGE PARTICLE PRODUCTION IN PI=P COLLISIONS AT 1.59 GEV/C	1.59	SOBB COLL.,NC,42A,606,66	MOMENTUM	GRAPH	
51	= PI=P=N P I O PI=P CHARGE EXCHANGE SCATTERING AT 10 GEV/C	10.	BACKENSTOSS,NC,42A,814,66	MOMENTUM	GRAPH	
52	= PI=P=PI=P PI=P INTERACTIONS AT 775 MEV	0.775	BERTANZA,NC,44A,712,66	KIN ENERGY	GRAPH	8169
53	= PI=P P PI= PI=P ELASTIC SCATTERING IN THE NEIGHBOURHOOD OF N=2190	1.72 2'45	BUSZA,NC,52A,331,67	MOMENTUM	TABLE	8133
54	= PI=P P PI= PI=P INTERACTIONS AT 650 MEV	.650	FEMINO,NC,52A,892,67	KIN ENERGY	GRAPH	8165
55	= PI=P PI=P INTERACTIONS AT 720 MEV	.720	VAN DE WALLE,NC,53A,745,68	KIN ENERGY	GRAPH	8168
56	= PI=P P PI= REACTIONS PI=P=PI=P AND PI=P=PI=PI O AT 1.7 GEV/C	1.7	ALLEN,NC,58A,701,68	MOMENTUM	TABLE	8175
57	= PI+DE QUASI TWO BODY PROCESSES IN PI+DE INELASTIC REACTIONS AT 5.1 GEV/C	5.1	ARMENISE,NC,68A,637,70	MOMENTUM	GRAPH	
58	= PI+P N++1236 RHO ANALYSIS OF THE REACTION PI+P=RH N++1236 AT 11.7 GEV/C. MOMENTUM	11.7	MADDOCK,NC,6A,433,71	MOMENTUM	TABLE	8166
59	= PI+N P F P O RESONANCE PRODUCTION IN PI+DE INTERACTIONS AT 5.1 AND 9.0 GEV/C	5.1	FOGLI,NC,6A,670,72	MOMENTUM	GRAPH	
60	= PI=P P PI= PI=P=PI=P DIFFERENTIAL CROSS SECTIONS AT 808 MEV/C	0.898	BRADAMANTE,NCL,1,177,69	MOMENTUM	TABLE	8137
61	= PI=DE PION DEUTERON ELASTIC DIFFERENTIAL CROSS SECTION AT 994 MEV/C	.994	BRADAMANTE,NCL,1,894,69	MOMENTUM	TABLE	8132
62	= PI+P L K O PI+P=K O L 80 ASSOCIATED PRODUCTION IN THE FORWARD DIRECTION AT 6.8,10 AND 11.2 GEV/C	6.0	BERTOLUCCI,NCL,2,149,69	MOMENTUM	TABLE	
63	= PI=P P PI= NEGATIVE PION PROTON ELASTIC SCATTERING AT 800 TO 750 MEV	0.60 0'75	SMONLE,PRL,5,156,60	KIN ENERGY	GRAPH	8084
64	= PI=P P PI= PI=P ELASTIC SCATTERING AT 550,600,720,900 AND 1020 MEV	0.95 1'02	WOOD,PRL,6,481,61	KIN ENERGY	TABLE	8017
65	= PI=P P PI= NEGATIVE PION PROTON ELASTIC SCATTERING AT 1.51,2.01,2.83 BEV/C, OUTSIDE THE DIFFRACTION PEAK	1.51 2'53	LAI,PRL,7,125,61	KIN ENERGY	GRAPH	8093
66	= PI=P N P I O NEUTRAL PION PRODUCTION BY 960 MEV NEGATIVE PIONS (PI=P=N P I O)	0.960	WEINBERG,PRL,8,70,62	KIN ENERGY	GRAPH	8088
67	= PI= P L O K O L O K O PRODUCTION BY PIONS ON PROTONS	0.775 0'871	BERTANZA,PRL,8,332,62	KIN ENERGY	GRAPH	8112
68	= PI P P PI PION PROTON ELASTIC DIFFRACTION SCATTERING AT 3,4,8 GEV/C	3. 5'	TING,PRL,9,468,62	MOMENTUM	GRAPH	
69	= PI=P P PI= NEGATIVE PION PROTON ELASTIC SCATTERING AT 10 GEV/C	10.	BRANDT,PRL,10,413,63	MOMENTUM	TABLE	8010
70	= PIP P PI PION PROTON ELASTIC SCATTERING AT 2'00 GEV/C	2.0	DAMOUTH,PRL,11,287,63	MOMENTUM	GRAPH	8098
71	= PIP P PI SMALL ANGLE ELASTIC SCATTERING OF PROTONS AND PIONS 7-20 BEV/C	7.0 20.	FOLEY,PRL,11,425,63	MOMENTUM	TABLE	8011
72	= PI=P N P I O SMALL ANGLE CHARGE EXCHANGE OF PI= MESONS BETWEEN 6 AND 18 GEV/C	6. 18.	STIRLING,PRL,14,763,65	MOMENTUM	TABLE	8013
73	= PI=P P PI= ELASTIC SCATTERING OF PROTONS, ANTIPROTONS, NEGATIVE PIONS AT HIGH ENERGIES	14.84 25.34	FOLEY,PRL,15,45,65	MOMENTUM	TABLE	8014
74	= PI P P PI PION=PROTON ELASTIC SCATTERING AT HIGH MOMENTUM TRANSFERS	8. 12.	DREAR,PRL,15,309,65	MOMENTUM	TABLE	8015
75	= PI P P PI BACKWARD ELASTIC SCATTERING OF HIGH ENERGY PIONS BY PROTONS	4. 8'	FRISKEN,PRL,15,313,65	MOMENTUM	TABLE	
76	= PI=P P PI= PI=P ELASTIC SCATTERING FROM 2.5 TO 6 GEV/C	2.5 6'0	COFFIN,PRL,15,838,65	MOMENTUM	TABLE	8018

77	= PI=P N PI0 PI=P CHARGE EXCHANGE PROCESS IN THE REGION OF 2 GEV/C	1,715 2'460	CARROL,PRL,16,288,66	MOMENTUM	GRAPH	
78	= PI P P PI MEASUREMENT OF PI P BACKWARD SCATTERING AT 4 TO 8 GEV/C	4.4 7'8	BRODY,PRL,16,828,66	MOMENTUM	TABLE	8192
79	= PI=P N ET TOTAL AND DIFFERENTIAL CROSS SECTION FOR PI=P N ET FROM THRESHOLD TO 1300 MEV	0,592 1'300	RICHARDS,PRL,16,1221,66	KIN ENERGY	GRAPH	
80	= PI+P P PI+ PI+P ELASTIC DIFFERENTIAL CROSS SECTIONS FROM 2,3 TO 4,0 GEV/C	2,3 4'	COFFIN,PRL,17,458,66	MOMENTUM	GRAPH	
81	= PI P P PI BACKWARD PEAKS IN ELASTIC PION-PROTON SCATTERING FROM 6 TO 17 GEV/C	5,9 17.1	ASHMORE,PRL,19,460,67	MOMENTUM	TABLE	
82	= PI=P P PI= PI=P ELASTIC SCATTERING NEAR 180 DEG AT 8 AND 16 GEV/C	8,0 16.0	ANDERSON,PRL,20,1529,68	MOMENTUM	TABLE	8001
83	= PI P P PI PI+P BACKWARD SCATTERING BETWEEN 1.5 AND 3.0 BEV/C	1,5 3'	CARROL,PRL,20,807,68	MOMENTUM	GRAPH	8218
84	= PI=DE DE PI PION=DEUTERON ELASTIC SCATTERING AT 3,65 BEV/C	3,65	HAIJUNG,PRL,21,187,68	MOMENTUM	GRAPH	
85	= PI=P P PI= HIGH ENERGY PI=P,K=P, AND AP P ELASTIC SCATTERING.	6. 8'	ASHMORE,PRL,21,387,68	MOMENTUM	GRAPH	
86	= PI=P P PI= PI=P BACKWARD ELASTIC AND INELASTIC SCATTERING AT 2,15 GEV/C	2,12	ANTONY,PRL,21,1605,68	MOMENTUM	GRAPH	8096
87	= PI=P N PI0 PI=P CHARGE EXCHANGE AT HIGH MOMENTUM TRANSFER		CHASE,PRL,22,1137,69	MOMENTUM	GRAPH	8075
88	= PI=DE DE PI= ELASTIC SCATTERING OF NEGATIVE PIONS FROM DEUTERONS AT 2,01,3,77 AND 5,53 GEV/C	2,01 5'53	FELLINGER,PRL,22,1265,69	MOMENTUM	TABLE	8003
89	= PI=P P A1= OBSERVATIONS OF A1= AND HIGHER MASS BOSONS PRODUCED NEAR 180 DEG IN PI=P (MISSING MASS) = AT 16 GEV/C	16.0	ANDERSON,PRL,22,1390,69	MOMENTUM	GRAPH	
90	= PI+P P PI+ BACKWARD ELASTIC PI+ P SCATTERING FROM 2,18 TO 5,0 BEV/C	2,18 5'	CHANDLER,PRL,23,186,69	MOMENTUM	GRAPH	8074
91	= PI=P P PI= PI=P ELASTIC SCATTERING AT 2,51,2,76 AND 3,01 GEV/C NEAR $\tau = 3$ GEV/C SQ.	2,51 2'76	FELLINGER,PRL,23,600,69	MOMENTUM	TABLE	8005
92	= PI+P N++PI0 OBSERVATION OF REGGE EFFECTS IN THE REACTION PI+P N++PI0		GIDAL,PRL,23,994,69	MOMENTUM	GRAPH	
93	= PI=P N PI0 REACTION PI=P NPI0 NEAR 180 DEG AT HIGH ENERGIES		BONAMY,PRL,23,1068,69	MOMENTUM	TABLE	
94	= PI+P S+ K+ MEASUREMENT OF THE REACTION PI+P K+ AT LARGE MOMENTUM TRANSFERS	3. 7'	HAN,PRL,24,1353,70	MOMENTUM	TABLE	8072
95	= PI P P PI INTERMEDIATE ANGLE PION=PROTON ELASTIC SCATTERING FROM 3,0 TO 5,0 GEV/C	3,0 5'	BRABSON,PRL,25,553,70	MOMENTUM	GRAPH	
96	= PI+P N++PI= EXPERIMENTAL STUDY OF PI=P N++PI= AT 8 AND 16 GEV/C	8. 16.	ANDERSON,PRL,25,699,70	MOMENTUM	GRAPH	
97	= PI=P N PI0 MEASUREMENT OF THE REACTION PI=P NPI0 AT LARGE MOMENTUM TRANSFERS		BRACKETT,PRL,26,527,71	MOMENTUM	GRAPH	
98	= PI+P S1385= K+ STUDY OF K+ FORWARD SCATTERING FROM THE REACTION PI+P K+S=1385 AT 4,8 AND 6 GEV/C	4,8 6'	CRENNEL,PRL,26,1280,71	MOMENTUM	GRAPH	
99	= PI=P N RHO STUDY OF THE REACTION PI=P RHON AT 75 GEV/C	15.0	BULOS,PRL,26,1453,71	MOMENTUM	GRAPH	
100	= PI+P S+ K+ MEASUREMENT OF THE REACTIONS PI+P K+S+ AND PI+P K+ Y++ NEAR ZERO DEGREES		KALBACI,PRL,27,74,71	MOMENTUM	TABLE	8033
101	= PI=P P PI= PI=P ELASTIC SCATTERING NEAR 180 DEG BETWEEN 600 AND 1800 MEV/C	0,6 1'880	GREBB,PRL,27,216,71	MOMENTUM	GRAPH	
102	= PI=P N PI0 REACTION PI=N GAM GAM N AT 3,65 GEV/C	3,65	HARVEY,PRL,27,885,71	MOMENTUM	GRAPH	8219
103	= PI=DE DE PI= OBSERVATION OF ENERGY-DEPENDENT STRUCTURE IN BACKWARD PI=DE ELASTIC SCATTERING BETWEEN 496 AND 1050 MEV/C	0,496 1'050	SCHROEDEL,PRL,27,1813,71	MOMENTUM	GRAPH	
104	= PI+P S+ K+ PRODUCTION OF S+ K+ BY PI+ P INTERACTION AT 1170 MEV/C	1,170	CRAWFORD,PR,128,368,62	MOMENTUM	GRAPH	8117
105	= PI+P P PI+ ELASTIC DIFFERENTIAL CROSS SECTION OF PI+P AT 1,5,2,0,2,5 BEV/C	1,50 2'5	COOK,PR,130,782,63	MOMENTUM	TABLE	8092
106	= PI P P PI PION=PROTON ELASTIC SCATTERING FROM 3 GEV/C TO 6 GEV/C	3,0 6'	PERL,PR,132,1252,63	MOMENTUM	TABLE	8019
107	= PI+P P PI+ INTERACTIONS OF POSITIVE PIONS WITH HYDROGEN AT 600 MEV	0,60	NEWCOMB,PR,132,1283	KIN ENERGY	GRAPH	8081
108	= PI+P L K0 L K0 AND S0 K0 PRODUCTION IN 1,5 BEV/C PI= P INTERACTIONS	1,5	YODER,PR,132,1778,63	MOMENTUM	GRAPH	8121
109	= PIP PI=P INTERACTIONS AT 905,960 AND 116 MEV	0,905 1'100	PICKUP,PR,132,1819,63	KIN ENERGY	GRAPH	8086
110	= PI+P P PI+ ELASTIC SCATTERING OF POSITIVE PIONS BY PROTONS IN THE ENERGY RANGE 500-1600 MEV	0,5 1'	HELLAND,PR,134B,1098,64	KIN ENERGY	TABLE	8078
111	= PI=P P PI= ELASTIC SCATTERING OF NEGATIVE PIONS ON PROTONS IN THE ENERGY RANGE 500-1600 MEV/C	0,5 1'	HELLAND,PR,134B,1079,64	KIN ENERGY	TABLE	8079
112	= PI=P PI= P INTERACTIONS AT 604 MEV	0,604	VITTOE,PR,135B,232,64	KIN ENERGY	TABLE	8083
113	= PI+P S+ K+ PRODUCTION OF S+ K+ BY PI+ P INTERACTIONS AT 1206 AND 1265 MEV/C	1,206 1'265	CARAYANNOPULOS,PR,138B,433,65	MOMENTUM	GRAPH	8116
114	= PI+P P PI= LARGE ANGLE PI= P ELASTIC SCATTERING AT 3,63 GEV/C	3,63	LEE,PR,138B,707,65	MOMENTUM	TABLE	8020

115	= PI-P PI-P INTERACTIONS AT 683 MEV/C	0,683	BURNSTEIN, PR, 1378, 1044, 65	MOMENTUM	GRAPH	8080
116	= PIP P PI PI+ P ELASTIC SCATTERING IN THE ENERGY RANGE 300-700 MEV	0,3 0'700	BANNER, PR, 1378, 1115, 65	KIN ENERGY	TABLE	
117	= PI+P INTERACTIONS OF PI+ MESONS WITH PROTONS AT 2.08 BEV/C	2,08	JAMES, PR, 142, 896, 66	MOMENTUM	GRAPH	
118	= PI-P SO KO POLARIZATION (AND ANGULAR DISTRIBUTION) OF SO PARTICLES PRODUCED IN THE REACTION PI-P KO SO AT 1,5 AND 1,8 BEV/C	1,5 1'8	KIM, PR, 143, 1028, 66	MOMENTUM	GRAPH	8122
119	= PI-P PI-P INTERACTIONS AT 646 MEV	0,646	OLIVIER, PR, 147, 32, 66	KIN ENERGY	GRAPH	8094
120	= PI-P PI-P INTERACTIONS AT 460 MEV	0,460	POIRIER, PR, 148, 1311, 66	KIN ENERGY	GRAPH	
121	= PIP P PI DIFFERENTIAL CROSS SECTIONS FOR PI+ P ELASTIC SCATTERING IN THE MOMENTUM RANGE 878-1579 MEV/C	0,875 1'579	DUKE, PR, 149, 1077, 66	MOMENTUM	GRAPH	8068
122	= PI-P SO KO STUDY OF PI-P SO KO AT 1170 MEV/C	1,170	ANDERSON, PR, 152, 1139, 66	MOMENTUM	GRAPH	8118
123	= PIP P PI LARGE ANGLE PION-PROTON ELASTIC SCATTERING AT HIGH ENERGIES		OREAR, PR, 152, 1162, 66	MOMENTUM	TABLE	8021
124	= PI-P N PIO PION PROTON CHARGE EXCHANGE SCATTERING FROM 2,3-6,0 BEV/C	0,500 1'300	CHU, PR, 156, 1415, 67	KIN ENERGY	TABLE	
125	= PI-P MESONS AND ISOBAR RESONANCE PRODUCTION IN PI-P INTERACTIONS AT 3,63 BEV/C	3,63	LEE, PR, 159, 1156, 67	MOMENTUM	GRAPH	
126	= PI+P P PI+ ELASTIC DIFFERENTIAL CROSS SECTION FOR PI+P SCATTERING FROM 2,3-6,0 BEV/C	2,3 6'0	COFFIN, PR, 159, 1189, 67	MOMENTUM	TABLE	8024
127	= PI-P N RH STUDY OF THE RHO MESON FORMED IN PI+ P = PI+ PI+ N BETWEEN 1,38 AND 3,00 GEV/C	1,38 3'00	HOWARD, PR, 162, 1323, 67	MOMENTUM	GRAPH	
128	= PI-P STRANGE PARTICLE PRODUCTION IN PI-P INTERACTIONS FROM 1,8 TO 4,2 BEV/C	1,5 4'2	DAHL, PR, 1430, 163, 67	MOMENTUM	TABLE	8022
129	= PI+ P S+ K+ REACTION PI+P = S+ K+ AT 3,23 GEV/C	3,23	KOFLER, PR, 163, 1479, 67	MOMENTUM	TABLE	8070
130	= PI+P PI+ P INTERACTIONS AT 900 MEV	0,9	METZGER, PR, 164, 1680, 67	KIN ENERGY	TABLE	8085
131	= PI-P N ET ET AND X0 PRODUCTION NEAR THRESHOLD AND BACKWARD CHARGE EXCHANGE DIFFERENTIAL CROSS SECTION IN PI-P REACTIONS	0,607 0'805	HYMAN, PR, 165, 1437, 68	MOMENTUM	TABLE	8028
132	= PI-P S- K+ STUDY OF PI-P = S- K+ AT 1170 MEV/C	1,170	DOYLE, PR, 165, 1483, 68	MOMENTUM	GRAPH	
133	= PI-P N PIO DIFFERENTIAL PION CHARGE EXCHANGE SCATTERING AND ET PRODUCTION	2,4 1'0	MANNELLI, PR, 168, 1515, 68	MOMENTUM	TABLE	8030
134	= PI-P P PI- PI- P ELASTIC SCATTERING AT 2,26 GEV/C	2,26	REYNOLDS, PR, 173, 1403, 68	MOMENTUM	TABLE	8045
135	= PI-P STUDY OF NEUTRAL FINAL STATES PRODUCED IN PI-P COLLISIONS AT MOMENTA OF 1,71 - 2,46 GEV/C	1,71 2'46	CARROL, PR, 177, 2047, 69	MOMENTUM	TABLE	8069
136	= PI+P P PI+ PI+ P ELASTIC SCATTERING IN THE 2 G+V REGION	2,0	BUSZA, PR, 180, 1339, 69	MOMENTUM	TABLE	8059
137	= PIP P PI HIGH ENERGY ELASTIC SCATTERING OF PI+ P = K+ AND AP ON HYDROGEN AT C.M. ANGLES FROM 22 TO 160 DEGREES		OHEN, PR, 181, 1794, 69	MOMENTUM	TABLE	8038
138	= PI-P LKO PRODUCTION OF L0 AND S0 HYPERONS BY PIONS OF BEAM MOMENTA 1,12-1,32 BEV/C	1,12 1'32	BINFORD, PR, 183, 1134, 69	MOMENTUM	GRAPH	
139	= PI-P N PIO CHARGE EXCHANGE AND PRODUCTION OF ET MESONS AND MULTIPLE NEUTRAL PIONS IN PI- P REACTIONS BETWEEN 854 AND 1247 MEV/C	0,654 1'247	BULOS, PR, 187, 1827, 69	MOMENTUM	GRAPH	
140	= PI-P N ET PRODUCTION AND NEUTRAL DECAY OF THE ET MESON IN PI P COLLISIONS	0,592 1'3	RICHARDS, PR, 110, 70	KIN ENERGY	GRAPH	
141	= PI-P P PI- PI-P ELASTIC SCATTERING BETWEEN 1,7 AND 2,5 GEV/C	1,7 2'5	HILL, PR, 1729, 70	MOMENTUM	TABLE	8049
142	= PI-P P PI- PI- P BACKWARD ELASTIC SCATTERING FROM 2,38 TO 3,00 GEV/C	2,38 3'00	CRITTENDEN, PR, 1, 3050, 70	MOMENTUM	TABLE	8057
143	= PI+P N++ RH0 REACTION PI+P = RH0 N++ AT 13,1 GEV/C	13,1	GAIDOS, PR, 1, 3190, 70	MOMENTUM	GRAPH	
144	= PI-P P PI- MEASUREMENT OF PI- P ELASTIC SCATTERING FROM 1,71 TO 5,53 GEV/C	1,71 5'53	FELLINGER, PR, 2, 1777, 70	MOMENTUM	TABLE	8050
145	= PI+P S+ K+ STUDY OF THE REACTION PI+ P = S+ K+ BETWEEN 1850 AND 2090 MEV C.M. ENERGY	1,850 2'090	KALMUS, PR, 2, 1424, 70	KIN ENERGY	GRAPH	
146	= PI-P N PIO PI- P CHARGE EXCHANGE AT BACKWARD ANGLES	4,0 6'0	CHASE, PR, 2, 2588, 70	MOMENTUM	TABLE	8058
147	= PI+P QUASI TWO-BODY PRODUCTION IN PI+P INTERACTIONS INTO FOUR PRONGS AT 1,95 GEV/C	1,95	CHAPMAN, PR, 3, 38, 71	MOMENTUM	GRAPH	
148	= PI+P P PI+ BACKWARD PI+ P ELASTIC SCATTERING FROM 2,18 TO 5,25 GEV/C	2,18 5'25	SIDWELL, PR, 3, 1523, 71	MOMENTUM	TABLE	8052
149	= PI-P P PI- PI- P ELASTIC SCATTERING IN THE C.M. ENERGY RANGE 1400-2000 MEV	1,400 2'000	BRODY, PR, 3, 2619, 71	KIN ENERGY	GRAPH	8194
150	= PI+P P PI+ PI+ P ELASTIC SCATTERING DATA BETWEEN 1820 AND 2090 MEV C.M. ENERGY	1,820 2'090	KALMUS, PR, 4, 676, 71	KIN ENERGY	TABLE	8055
151	= PI+P S+ K+ STUDY OF THE REACTIONS PI+P = K+ S+ AND PI+P = K+ Y++ (1385) BETWEEN 3,5 AND 14 GEV/C	3,5 14	BASHIAN, PR, 4, 2667, 71	MOMENTUM	TABLE	8041
152	= PI+P P PI+ ANALYSIS OF PI+ P ELASTIC SCATTERING FROM 2,74 TO 4,0 GEV/C AT ALL ANGLES	2,74 4'	CHU, PR, 4, 2743, 71	MOMENTUM	GRAPH	

153	= PI=P P PI= PI=P ELASTIC SCATTERING AT 2,29	2,29	HAGOPIAN,PR,5,2684,72	MOMENTUM	TABLE	8145
154	= PI=P N P10 MEASUREMENT OF THE DIFFERENTIAL CROSS SECTION FOR PI=P N P10 AT 317, 452 AND 491 MEV/C	0,317 0,491	BERARDO,PR,6,756,72	MOMENTUM	TABLE	8147
155	= PI=P TWO BODY STRANGE PARTICLES FINAL STATES IN PI=P INTERACTIONS AT 4,5 AND 6 GEV/C	4,5 6,0	CRENNEL,PR,6,1220,72	MOMENTUM	TABLE	8162
156	= PI+P P PI+ PI+ P ELASTIC SCATTERING AT 820,900, AND 1050 MEV	0,820 1,050	BARLOTAUD,PL,1,207,62	KIN ENERGY	GRAPH	8170
157	= PI=P N ET THE REACTION PI= p = N ET BETWEEN 3 AND 18 GEV/C	3, 18,	GUISIAN,PL,18,200,65	MOMENTUM	TABLE	8190
158	= PIP P PI PI+P AND PP ELASTIC SCATTERING AT 8,5,12,4 AND 18,4 GEV/C	8,5 12,4	CALDWELL,PL,8,288,64	MOMENTUM	GRAPH	
159	= PI=P N P10 FORWARD PI=P CHARGE EXCHANGE SCATTERING BETWEEN 3,8 AND 1,9 GEV/C	0,8 1,9	BORGEAUD,PL,10,134,64	KIN ENERGY	GRAPH	8188
160	= PI+P ON THE PRODUCTION OF THE 3/2,3/2,ISUBBAR IN 4 GEV/C PI+ P INTERACTIONS		BARTSCH,PL,10,229,64	MOMENTUM	GRAPH	
161	= PI+P P PI+ PI+ P ELASTIC SCATTERING AT 4 GEV/C	4,	ADERHOLZ,PL,10,248,64	MOMENTUM	TABLE	8127
162	= PI+DE P P EXPERIMENTAL STUDY OF THE PI+ DE = p P REACTION BETWEEN 3,88 AND 1,95 GEV/C	0,85 1,95	DEKKERS,PL,11,161,64	MOMENTUM	GRAPH	
163	= PI+P P PI+ ELASTIC DIFFERENTIAL CROSS SECTIONS FOR PI+ P AT 1,75 AND 2,08 GEV/C	1,75 2,08	JAMES,PL,19,72,65	MOMENTUM	TABLE	8128
164	= PI=P N P10 A SECONDARY PEAK AT $\approx 1(\text{GEV/C})^{*2}$ IN HIGH ENERGY PI=P CHARGE EXCHANGE SCATTERING	3, 12,	SONDEREGGER,PL,20,75,66	MOMENTUM	TABLE	8150
165	= PI=P N=0 OM THE REACTION PI= p = OM N=0 AT 2,75 GEV/C	2,75	ALITTI,PL,21,354,66	MOMENTUM	GRAPH	
166	= PI=P P PI= NEGATIVE PION PROTON ELASTIC SCATTERING AT 1,7 GEV/C	1,7	ALLEN,PL,21,468,66	MOMENTUM	TABLE	
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168	= PI P PI P THE ANGULAR DISTRIBUTION OF BACKWARD ELASTICALLY SCATTERED PIONS AT 3,55 GEV/C	3,55	BAKER,PL,23,605,66	MOMENTUM	TABLE	8155
169	= PI=P P PI= NEGATIVE PION=PROTON ELASTIC SCATTERING AT 2,26 GEV/C	2,26	REYNOLDS,PL,24B,311,67	MOMENTUM	GRAPH	8007
170	= PIP P PI BACKWARD PI P ELASTIC SCATTERING AT 2,85 AND 3,30 GEV/C	2,85 3,30	BAKER,PL,25B,361,67	MOMENTUM	TABLE	8176
171	= PI=P L K0 FORWARD AND BACKWARD PI=P K0 L/S0 AT 4 GEV/C	4,	HOANG,PL,25B,615,67	MOMENTUM	GRAPH	
172	= PI=P P PI= ELASTIC SCATTERING OF PI=K=AP FROM PROTONS AT 9,8 AND 13,6 GEV/C	9,8 13,6	DREAR,PL,28B,61,68	MOMENTUM	GRAPH	
173	= PI=DE PION DEUTERON COHERENT SCATTERING AT 895 MEV/C	0,895	BRADAMANTE,PL,28B,191,68	MOMENTUM	TABLE	8151
174	= PI=N N PI= BACKWARD ELASTIC SCATTERING OF PI= MESONS BY NEUTRONS IN THE MOMENTUM RANGE 1,5-3,8 GEV/C	1,5 3,8	ANTOPOLOSKY,PL,28B,220,68	MOMENTUM	GRAPH	
175	= PIP P PI K P AND PI P BACKWARD ELASTIC SCATTERING AT 5,2 AND 6,9 GEV/C	5,2 6,9	BAKER,PL,28B,291,68	MOMENTUM	TABLE	
176	= PI=DE PION DEUTERON COHERENT SCATTERING AT HIGH ENERGY	9,0 13,2	BRADAMANTE,PL,31B,87,70	MOMENTUM	TABLE	8152
177	= PI=P N ET THE PI= P = N ET CROSS SECTION IN A SMALL MOMENTUM TRANSFER RANGE AT 4 GEV/C	4,	HLADKY,PL,31B,475,70	MOMENTUM	TABLE	8153
178	= PI+P N ET A STUDY OF THE REACTION PI= P = N P+ PI= AT 16 GEV/C	16,	BALLAM,PL,31B,489,70	MOMENTUM	GRAPH	8209
179	= PI=P P PI= PI=P ELASTIC SCATTERING FROM 1,225 TO 2,070 GEV/C COMPARED WITH PHASE SHIFT ANALYSIS	1,225	KEMP,PL,31B,613,70	MOMENTUM	GRAPH	
180	= PI+P P RH+ BACKWARD RH+ PRODUCTION IN PI+ P REACTIONS AT 5,2 GEV/C	5,2	CARLSON,PL,33B,502,70	MOMENTUM	TABLE	8156
181	= PI=P N P10 THE REACTIONS PI= p = N P10 AND PI=P = N ET0 IN THE BACKWARD HEMISPHERE	10,1 13,8	BORIGHT,PL,33B,615,70	MOMENTUM	TABLE	8157
182	= PI=P L K0 A STUDY OF THE BACKWARD PEAK IN THE L K0 ASSOCIATED PRODUCTION AT 5,7 AND 12 GEV/C	5,7 12,	PEPIN,PL,26B,35,67	MOMENTUM	GRAPH	8204
183	= PI=P P RH= PRODUCTION AND DECAY OF THE RH= MESON IN THE REACTION PI=P=PI= P10 P AT 2,77 GEV/C	2,77	BATON,PL,26B,471,68	MOMENTUM	GRAPH	
184	= PI=N N PI= ELASTIC BACKWARD SCATTERING OF NEGATIVE PIONS ON NEUTRONS AT 23 AND 40 GEV/C	23, 40,	BABAEV,PL,38B,342,72	MOMENTUM	TABLE	8160
185	= PIP P PI MEASUREMENT OF LARGE-ANGLE PI+P ELASTIC SCATTERING AT 5 GEV/C	5,	CHABAUD,PL,38B,441,72	MOMENTUM	TABLE	8159
186	= PI P P RH A SPARK CHAMBER MEASUREMENT OF THE REACTIONS PI+P = RH+P AT 15 GEV/C	15,	PRATT,PL,41B,383,72	MOMENTUM	GRAPH	8211
187	= PI=P P PI= PI=P BACKWARD ELASTIC SCATTERING BETWEEN 1,28 AND 3,0 GEV/C	1,28 3,0	OTT,PL,42B,133,72	MOMENTUM	GRAPH	8208
188	= PI=P P PI= BACKWARD PI=P ELASTIC SCATTERING AT 3 AND 4 GEV/C	3, 4,	BRABSON,PL,42B,283,72	MOMENTUM	TABLE	

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