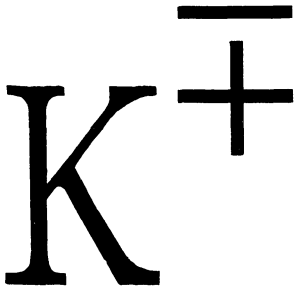

CERN/HERA 72-2
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COMPILATION OF CROSS SECTIONS

I - K^- AND K^+ INDUCED REACTIONS

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Abstract

A compilation of cross sections of reactions produced by negative and positive pions on targets of protons, neutrons and deuterons, is presented. This is an updated version of CERN/HERA 70-4 and 70-6 and contains 40% more data values than the earlier publications. Graphs of the variation of cross section with incident laboratory momentum are plotted. Values of the rate of decrease of cross section with incident momentum are given.

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CONTENTS

1. INTRODUCTION

In high energy strong interactions a considerable amount of data has been and is being produced. To make this information readily available, compilations are required. The present work is a compilation of cross sections, which is an important and useful quantity. The complete series of publications will contain cross sections for reactions with incident protons, antiprotons, pions and kaons on targets of protons, neutrons deuterons and helium nuclei. The present publication is an updated edition of our previous compilation [1]. Here for reasons of economy, we have now changed and compressed the presentation. The whole series of publications consists now of three volumes: one on $\pi^{\pm}$, one on $K^{\pm}$ and the last on P and $\bar{P}$ induced reactions. All strong interactions have been considered in the sense that values are given for total cross sections, elastic, quasi two-body, many-body and phenomenological (i.e. prong number) cross sections.

The cross sections, σ, are tabulated against the laboratory momentum, p_{Lab}, but the corresponding values of the square of c.m. energy and of the kinetic energy of the incoming particle are also given. For any reaction with a cross section determined at a reasonable number (≈ 6) of momenta, a plot is given of the log σ against log p_{Lab}.

No theoretical interpretation of the data is given, but as the rate of fall-off of a cross section with p_{Lab} at high energy is of interest, an empirical fit to the data has been made with the parameterization

$$\sigma = \text{constant} \times (p_{Lab})^{n} \qquad (1)$$

It has previously been shown [2] that this expression fits two-body reactions and the exponent n is related to the exchange mechanism which dominates the reaction. An extension for many-body reactions has been made [3].

This compilation started from a presentation of data on two-body reactions at the Stony Brook Conference (1966) [2] . It was enlarged and became part of the European project of data compilation, High Energy Reaction Analysis, HERA.

We have tried to compile all data published before August 1971 some more recent data are also included.

Although we have tried to check all numbers, there are probably errors and omissions - please, tell us. Suggestions on how to improve these compilations are very welcome.

2. USE OF COMPILATION - SUMMARY

The results of this compilation are in table 6 where the cross sections for the various reactions are listed. Plots of the cross section versus p_{Lab} for the main reactions are given at the end of the compilation. The reactions considered are listed in tables 5 and 7. The order of this listing is explained in Section 5. Each reaction is given a number and the same numbers are used in tables 5 and 6 for the π^- data, in tables 7 and 8 for the π^+ data and on the plots.

The symbols used for the particles and resonances are summarized in table 1. The abbreviations used for the quotations of the publications are listed in table 2. Further conventions used to described the reactions are given in table 3. The list of footnotes and their corresponding code letter are in table 4.

3. ERRORS - A WARNING

Great care should be taken with all the errors quoted in this compilation. In almost all cases the errors quoted are those given in the publications. As can be seen from the dispersion of points on the plots, these errors on cross sections tend to be underestimated. In general the errors quoted here are only statistical, as values of systematic errors are rarely given except for total and elastic cross sections.

4. ORGANISATION OF THE DATA

For each experimental result, a punched card is prepared containing the values of the incident momentum, cross section, error and the reference. These quantities are then put on magnetic tape from which are produced the listings of the data and the plots, on a log-log scale of the cross section against the incident momentum. The result of the fit of equation (1) to the experimental points is also plotted and the values of the exponent, n, and the probability of the fit are given in table 6.

Each reaction is identified by a TITLE given in the form

Initial State = Final State

e.g. $\pi^+ p = p\pi^+\pi^+\pi^-\pi^o$

which we write PI+P = PPI+PI+PI-PIO

or Initial State = Intermediate State = Final State

e.g. $\pi^+ p = N^{*++}\eta = p\pi^+\pi^+\pi^-\pi^o$.

Here the cross section is for production of the $N^{*++}\eta$ reaction in which only the η decay into $(\pi^+\pi^-\pi^o)$ state is considered. If the title had been $\pi^+ p = N^{*++}\eta$, then the cross section value would include all decay modes of the eta-meson.

Each particle or resonance is denoted by a conventional symbol (consisting of a small number of letters and numbers) as similar as possible to its "nickname". A list of the symbols used for the various particles is given in table 1.

To help find the plot of the cross section values, a number is given in the listings for each reaction, and the same number is printed on the corresponding plot.

5. ORDERING OF REACTIONS

A. Ordering of the particles in the initial state

The first particle from the left is always the incident particle in the laboratory system; the second is the target. The reactions are arranged in groups according to the mass of the target, the groups appearing in order of increasing target mass value for the latter e.g. pp, pn, pd and pHe.

B. Ordering of the particles in the final state

The particles appearing in the final state are ordered firstly according to their baryonic numbers, then their mass and charge, as follows

BARYONS		MESONS		ANTIBARYONS		Unseen Neutrals
HEAVIEST	LIGHTEST	HEAVIEST	LIGHTEST	HEAVIEST	LIGHTEST	Z^o
+,-,o	+,-,o	+,-,o	+,-,o	+,-,o	+,-,o	

each of these quantities determining in turn the position of the particle inside the group of the final state particles, as shown in this table. The symbol Z^o is described further in Section 8C.

So first come the baryons, then the mesons; in the group of the baryons, the heavy positive baryons are first, then the heavy negative, and then the heavy neutral baryons. After come the "light" positive baryons, then the negative and so on. No fit (Z^o) always comes last e.g., $\pi^- p = p\pi^+\pi^-\pi^- Z^o$, $K^- p = \Lambda p\, \pi^+\pi^- pZ^o$:

An exception is for elastic scattering where we write,

PI+P = PI+P and not PI+P = PPI+

in order to avoid any confusion with backward elastic scattering.

C. Ordering of reactions coming from the same initial state.

For a given initial state, the reactions are ordered according to the nature of the first particle appearing in the final state, in the following way. If the first particle appearing in the final state is a baryon, then those final states for which the strangeness S of the baryon is +1, will appear first, then those with S = 0, S = -1, etc. For a given strangeness the reactions are ordered according to the mass of the baryon, in order of increasing mass. For fixed S and mass, the order then depends on charge, positive first, then negative and lastly neutral. If the first particle is a meson, i.e. there are no baryons, then the ordering is based on mass and charge only, and strangeness is ignored.

If the first particle appearing in the final state of two different reactions has the same baryon number, mass and charge, then the ordering is governed by the baryon number, strangeness, mass and charge of the particle which appears second in the final state, the ordering being the same as for the first particle. If an intermediate state is also given (e.g. K-P = PK*-890 = PK-PI+), then what matters for the ordering is always the intermediate state. There are cross sections which cannot be classified in the above manner, such as the cross sections for production of two-prongs, four-prongs, annihilation (in case of $\bar{p}p$), etc. They will be quoted in the following order:

1) Total cross sections
2) Elastic cross sections
3) Topological cross sections as seen in bubble chambers, e.g. two-prongs, four-prongs, etc.
4) All other cross sections in the order described above.

However, to help the reader, some reactions are given in order of increasing multiplicity, e.g. $\pi^- p \to p\pi^+\pi^-\pi^-$ should be given before $\pi^- p \to p\pi^-\pi^o$, but here the ordering is $\pi^- p \to p\pi^-\pi^o$, $\pi^- p \to p\pi^+\pi^-\pi^-$, $\pi^- p \to p\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-$ etc.

6. DESCRIPTION OF REFERENCES

We quote for each reaction the name of the first author appearing on the publication, the review, volume, page and year. A list of abbreviations used for the various reviews, preprints and conference reports is given separately in table 2.

7. UNITS

The units used are GeV/c for the laboratory momentum, (GeV) for the kinetic energy and $(GeV)^2$ for s, the total c.m. energy squared. For the cross sections, σ, the units are normally millibarns, but if the cross section is less than 10 microbarns, then the units are microbarns and in this case the word "microb." is printed on the table. In the fitting of the equation $\sigma = Kp_{Lab}^{n}$ σ is in millibarns and p_{Lab} is in GeV/c.

8. ADDITIONAL NOTES

A certain number of additional comments should be made.

A. Cross sections for final states containing only stable particles.

For these types of reactions, we have sometimes been forced for reasons of space to shorten the description of the final state. For example, the reaction:

$\pi^+p = p\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-$, might be indicated as:

PI+P = P4PI+3PI- .

Also it has to be noted that for this type of reaction, what is usually quoted in the literature as cross section is in effect the sum of the cross sections including all intermediate states which will finally decay into the given final state plus the cross section for the non-resonant reaction (i.e., without intermediate resonance production). Therefore, each time one such cross section is quoted, it is to be understood that it includes all possible resonance production. When the known resonances have been substracted, the comment (non-resonant) will appear.

For "stable" particles appearing in the final state, like Λ^o, Σ^o, K^o, etc., which have neutral decay modes, the quoted cross section is always assumed to include a correction for unseen decays, unless explicitly stated.

Sometimes no charge is specified for the particles in the final states, e.g., if the reaction is written as

PI-P = YKPIPI

then the cross section is the sum of the cross sections for the final states which include any hyperon, any kaon, and any two pions, consistent with conservation of charge and strangeness. The reaction listed as

K+P = P(KPI)+

refers to the sum of the two different final states, $K^+p = pK^+\pi^o$ and $K^+p = pK^o\pi^+$.

For the sum of the reactions $K^-p = \Sigma^+\pi^-\pi^o$ and $K^-p = \Sigma^-\pi^+\pi^o$, we have written

K-P = S(+, -) PI(-, +)PIO

B. Cross sections for final states containing one or more resonances.

The same convention on the correction for unseen decay modes holds for a decaying resonance. In any case, when not explicitly stated, the quoted cross section refers to all the possible decay modes of the resonance. If, on the contrary, the cross section refers to a given decay mode only, this has been specified:

$\pi^-p = N^{*o}\omega^o = p\pi^+\pi^-\pi^-\pi^o$ or, in the program language

PI-P = N*012360M = PPI+PI-PI-PIO

the meaning of which is that for the N^{*o} only the decay mode into $p\pi^-$ was considered, and for the ω only the decay into $\pi^+\pi^-\pi^o$.

C. Explanation of the Symbol Z^{o}.

In event analysis using kinematic fitting, if there is one or more constraint, then the event is said to be "fitted". If there is more than one undetected neutral particle, then the event is not fitted. In bubble chamber work, a symbol, here Z^{o}, is given to the sum of the missing neutrals, i.e. Z^{o} is treated as a single particle required to conserve energy and momentum in the reaction. Thus the reaction $K^{-}p = pK^{-}Z^{o}$, means that two charged particles were observed and in addition there were two or more neutrals: the cross section given for this reaction does not include reactions produced with only one neutral such as $K^{-}p = pK^{-}\pi^{o}$.

D. Ambiguous Particle Assignments.

Sometimes the nature of the observed charged particles cannot be established. For example in the reaction quoted in Section C above, if one cannot distinguish whether the event belongs to the reaction

$K^{-}p = pK^{-}Z^{o}$ or $K^{-}p = p\pi^{-}Z^{o}$, then the reaction is written as

$K^{-}p = p(K/\pi)^{-}Z^{o}$.

Similarly $\pi^{-}p = (\Lambda/\Sigma)^{o}K^{o}$ represents the sum of the cross sections for the reactions $\pi^{-}p = \Lambda K^{o}$ and $\pi^{-}p = \Sigma^{o}K^{o}$.

E. Antiparticles.

The charge specified for antiparticles is not the charge of the corresponding particles, but that of the antiparticle itself. This means that the antiparticle of the Ξ^{-} will be denoted by AXI+, i.e., the charge printed is the observed positive charge of the antiparticle.

F. Topological Cross Sections

For reactions of the type :

pp = 6 prongs + V^{o}, where by V^{o} we mean a decaying strange particle, we adopted the following conventions :

a) the number of prongs is written first, and then the V and its charge
b) a comma is used to separate the number of prongs from the V.

examples :

$K^{-}p$ = 4 prongs + V^{o} becomes K-P = 4 PRONGS, VO

$\pi^{-}p$ = 6 prongs + (Σ^{o}, Λ^{o}) becomes PI-P = 6 PRONGS, (SO/L)

G. Charge Conjugate Final States.

For the sum of two charge conjugate final states the symbol CC has been used e.g.,

APP = NPI+AP CC

means the sum of $pp = n\pi^{+-}p$ and $pp = p\pi^{-}\bar{n}$.

H. Shortening of Title.

In some cases it has been necessary to shorten the title, or the reference, because of limitations of space. If necessary, additional information is given in a footnote.

I. Footnotes.

Further comments or information have sometimes been added as footnotes. The presence of a footnote is signalled by a letter in the last column of the listing. The footnotes are listed in table 4.

J. Widths of Resonances.

The cross section value quoted in a publication for a reaction involving one or more resonances, depends to some extent on the width of the resonance used to fit the experimental mass distribution. Since the resonance widths used sometimes vary appreciably from publication to publication, this may be a factor affecting the dispersion of cross section values. As, in general, we take the value given by the authors, it is recommended in case of doubt that the reader check the original publication.

References

1. E. Flaminio, J.D. Hansen, D.R.O. Morrison, N. Tovey; Compilation of cross sections:

I-Proton induced reactions, CERN-HERA 70-2
II-Antiproton induced reactions, CERN-HERA 70-3
III-K^+ induced reactions, CERN-HERA 70-4
IV-π^+ induced reactions, CERN-HERA 70-5
V-K^- induced reactions, CERN-HERA 70-6
VI-π^- induced reactions, CERN-HERA 70-7

2. D.R.O. Morrison, Stony Brook Conference on Two-body Reactions (1966).

3. J.D. Hansen, W. Kittel and D.R.O. Morrison, Nuclear Physics B25 (1971) 605.

TABLE 1

Symbols used for particles and resonances

MESONS

π	PI	f^{o} (1260)	F
K	K	D (1285)	D
K_1^o	KS	A_2 (1300)	A_2
K_2^o	KL	Q or K^* (1320)	K*1320
η (549)	ET	K^* (1400)	K*1400
K (725)	K725	E (1420)	E
ρ (765)	RH	f^* (1500)	F*
ω (783)	OM	A_3 (1640)	A3
K^* (890)	K*890	ϕ_N (1650)	PHI1650
X^o or η'	XO	G (1660)	G
δ (965)	DEL	ρ (1700)	R
H (990)	H	L or K^* (1790)	K*1790
ϕ (1019)	PHI	S (1930)	S
S^* (1070)	S*	U^o (2420)	UO
A_1 (1070)	A1	THRESHOLD ENHANC.	TE
$A_{1\cdot5}$ (1190)	A1.5	MISSING NEUTRALS	ZO
B (1220)	B	γ	GAM

TABLE 1 (cont'd)

BARYONS

Proton	P	Δ (2420)	N*2420
Neutron	N	Δ (2850)	N*2850
Λ	L	Λ (1405)	Y1405
Σ	S	Λ (1520)	Y1520
Ξ	XI	Λ (1670)	Y1670
Ω^-	OM-	Λ (1700)	Y1700
Hyperon	Y	Λ (1820)	Y1820
De	DE	Λ (2100)	Y2100
De*	DE*	Λ (2340)	Y2340
N (1400)	N1400	Λ (2340)	Y2340
N (1525)	N1525	Σ (1385)	Y*1385
N (1570)	N1570	Σ (1660)	Y*1660
N (1688)	N1688	Σ (1690)	Y*1690
N (1700)	N1700	Σ (1770)	Y*1770
N (2190)	N2190	Σ (1910)	Y*1910
N (2650)	N2650	Σ (2035)	Y*2035
N (3030)	N3030	Σ (2260)	Y*2260
N (3230)	N3230	Z (1900)	Z1900
Δ (1236)	N*1236	Ξ (1530)	XI*1530
Δ (1670)	N*1670	Ξ (1700)	XI*1700
Δ (1920)	N*1920	Ξ (1815)	XI*1815
Δ (2360)	N*2360	Ξ (1930)	XI*1930
		Ξ (2030)	XI*2030

Antiparticles are denoted by the same symbols used for the corresponding particles, with the prefix A.

For a given excited state of an isobar or hyperon, the charge is given before the mass.

TABLE 2

List of symbols and abbreviations used in the references to denote reviews, journals, conference reports, preprints, etc.

JOURNALS, REVIEWS, ETC.

AF	ARKIV FOR FYSIK
AJP	AUSTRALIAN JOURNAL OF PHYSICS
ANPHY	ANNALS OF PHYSICS
BAPS	BULLETIN OF THE AMERICAN PHYSICAL SOCIETY
CRAS	COMPTES RENDUS, ACADEMIE DES SCIENCES
DOKY	SOVIET PHYSICS - DOKLADY (TRANSLATION)
HELPA	HELVETICA PHYSICA ACTA
JETP	SOVIET PHYSICS - JOURNAL OF EXP. AND THEOR. PHYSICS
JETPL	SOVIET PHYSICS - JETP LETTERS
JNP	SOVIET JOURNAL OF NUCLEAR PHYSICS (TRANSLATION)
JPSJ	JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN
NC	NUOVO CIMENTO
NCS	SUPPLEMENTO AL NUOVO CIMENTO
NP	NUCLEAR PHYSICS
PHM	PHILOSOPHICAL MAGAZINE
PHY	PHYSICA
PL	PHYSICS LETTERS
PR	PHYSICAL REVIEW
PRL	PHYSICAL REVIEW LETTERS
PRS	PROCEEDINGS OF THE ROYAL SOCIETY
PPS	PROCEEDINGS OF THE PHYSICAL SOCIETY
RMP	REVIEWS OF MODERN PHYSICS
USPEK	SOVIET PHYSICS - USPEKHI (TRANSLATION)

Table 2 (cont'd)

PREPRINTS

ABBCCW	AACHEN-BERLIN-BONN-CERN-CRACOW-WARSAW COLLABORATION	
ABCLV	AACHEN-BERLIN-CERN-LONDON-VIENNA COLLABORATION	
ANL	ARGONNE ILL. USA	ARGONNE NAT. LAB.
BNL	UPTON, L. I., N.Y. USA	BROOKHAVEN NAT. LAB.
CEA	SACLAY, FRANCE	COMM. ENERGIE ATOMIQUE
CERN	GENEVA. SWITZERLAND	EUROP. ORGANIZATION NUCL. RESEARCH
CERNS	GENEVA, SWITZERLAND	CERN SYMPOSIUM
COO	LAFAYETTE, IND. USA	PURDUE UNIVERSITY
DUBNA	DUBNA, URSS	JOINT INST. FOR NUCL. RESEARCH
EFINS	CHICAGO, ILL. USA	E. FERMI, INSTITUTE, UN. CHICAGO
ICTP	LONDON, ENGLAND	IMPERIAL COLLEGE
IHEP	SERPUKHOV, URSS	INST. FOR HIGH ENERGY PHYSICS
INR	WARSAW, POLAND	INSTITUTE OF NUCLEAR RESEARCH
ITPST	STANFORD, CAL. USA	INST. THEOR. PHYS., STANFORD UN.
LHEB	BRUXELLES, BELGIUM	LAB. DES HAUTES ENERGIES
MIT	CAMBRIDGE, MASS., USA	MASS. INST. OF TECHNOLOGY
NEV	NEW YORK, N.Y., USA	NEVIS CYCL. LAB., COLUMBIA UN.
NTDM	NOTRE DAME, IND., USA	UN. OF NOTRE DAME
NWTUN	EVANSTONE, ILL. USA	NORTHWESTERN UN.
PAM	PARIS, FRANCE	COLLEGE DE FRANCE
PLANCK	MUNCHEN, GERMANY	MAX-PLANCK INST.
RPP	CHILTON, DIDCOT, BERKS. ENGLAND	RUTHERFORD HIGH ENERGY LAB.
RUTGERS	NEW BRUNSWICK, N.J., USA	STATE UNIVERSITY, RUTGERS
SLAC	STANFORD, CAL., USA	STANFORD LIN. ACC. CENTER
TATA	BOMBAY, INDIA	TATA INST. FUNDAMENTAL RES.
UCLA	LOS ANGELES, CAL., USA	UNIV. OF CALIFORNIA
UCRL	BERKELEY, CAL., USA	UNIV. OF CALIFORNIA, LRL
UCOL	BOULDER, COL., USA	UNIVERSITY OF COLORADO
UR	ROCHESTER, N.Y., USA	UNIVERSITY OF ROCHESTER
VANBLT	NASHVILLE, TENN., USA	VANDERBILT UNIVERSITY
WIS	MADISON, WIS., USA	UNIV. OF WISCONSIN

Table 2 (cont'd)

CONFERENCE PROCEEDINGS

ROCH60	1960 INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS AT ROCHESTER
AIX61	AIX-EN-PROVENCE INTERNATIONAL CONFERENCE ON ELEMENTARY PARTICLES 1963
CERN62	1962 INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS AT CERN
ATHENS63	ATHENS TOPICAL CONFERENCE ON RESONANT PARTICLES 1963
SIE63	SIENNA INTERNATIONAL CONFERENCE ON ELEMENTARY PARTICLES 1963
DUB64	1964 INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS AT DUBNA
ATHENS65	SECOND ATHENS TOPICAL CONFERENCE ON RESONANT PARTICLES 1965
OXF65	OXFORD INTERNATIONAL CONFERENCE ON ELEMENTARY PARTICLES 1965
BER66	1966 INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS AT BERKELEY
HEID67	HEIDÈLBERG INTERNATIONAL CONFERENCE ON ELEMENTARY PARTICLES 1967
CERN68	TOPICAL CONFERENCE ON HIGH ENERGY COLLISIONS OF HADRONS CERN 1968
VIENNA68	INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS VIENNA 1968
LUND69	LU D INTERNATIONAL CONFERENCE ON ELEMENTARY PARTICLES 1969
STONYBRK.	CONFERENCE ON HIGH ENERGY TWO-BODY REACTIONS, STONY BROOK, LONG ISLAND
KIEV70	INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS, KIEV, 1970

OTHERS

ABS	ABSTRACT
PC	PRIVATE COMMUNICATION
TBP	TO BE PUBLISHED
BGO COLL.	BIRMINGHAM-GLASGOW-OXFORD COLL., 10 GeV/c K^+
SCAND.COLL or SCANDINAVIA	COPENHAGEN-HELSINKI-OSLO-STOCKHOLM COLL.

TABLE 3

Conventions used in the description of reactions

$\bar{\Xi}^-$	is written as AXI+
MPI	for one or more pions
CC	reaction given plus charge conjugate
V	visible decay of a strange particle
NPRONGS	N charged particles in the final state
(L/SO)	Λ or Σ^o
(KPI)+	$K^o\pi^+$ and $K^+\pi^o$
PI(+,-)	π^+ or π^-

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TABLE 4
LIST OF FOOTNOTES

A = SUM OF ALL FINAL STATES WHICH INCLUDE THE GIVEN PARTICLES
B = AVERAGE VALUE TAKEN OVER THE MOMENTUM RANGE 1.2-1.4 GEV/C
C = CROSS SECTION CORRECTED FOR UNSEEN K0 DECAYS
D = NOT CORR. FOR HIGH MOMENTUM TRANSFER(GT.50 PI MSQ) TO THE N,NOR FOR KAK DECAY
E = ERROR IS ABOUT TEN PER CENT
F = CROSS SECTION OBTAINED FROM PI+DE=PP, USING DETAILED BALANCING
G = CROSS SECTIONS OBTAINED FROM NORMALIZATION OF TOTAL NUMBER OF EVENTS
H = CROSS SECTIONS OBTAINED FROM COUNT OF TAU DECAYS
I = D TRUE AND P TRUE
J = ONLY THE DECAY MODE INTO PROTON AND K- OF THE Y* IS CONSIDERED
K = L TRUE AND A TRUE
L = LOWER LIMIT
N = NEUTRON IS A SPECTATOR
O = ORDER OF MAGNITUDE
P = PROTON IS A SPECTATOR
Q = L TRUE AND * TRUE
R = CROSS SECTION FOR FINAL STATES OBSERVED IN THE BUBBLE CHAMBER
S = STATISTICAL ERROR ONLY
T = S TRUE AND A TRUE
U = UPPER LIMIT
V = 1 TRUE AND U TRUE
W = A TRUE AND U TRUE
Z = NO EVENTS OBSERVED
1 = AVERAGE VALUE OVER A BAND OF MOMENTA
2 = CROSS SECTION NOT CORRECTED FOR SCREENING IN THE DEUTERON
3 = CROSS SECTION CORRECTED FOR SCREENING IN THE DEUTERON
4 = CROSS SECTION DEDUCED FROM THE CHARGED DECAY MODE OF THE ETA
5 = CROSS SECTION DEDUCED FROM THE NEUTRAL DECAY MODE OF THE ETA
6 = FINAL STATE IS A 0 PRONG + ANNIHILATION INTO 2,4 AND 6 PRONGS
7 = CROSS SECTION DERIVED FROM K01K01 EVENTS OBSERVED
8 = FROM A SINGLE K01 OBSERVED, OTHER K0 FROM KINEMATIC FITTING
9 = FINAL STATE IS PK+PI+PI-PI0
* = CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
$ = DATA POINT NOT USED IN FITTING OR PLOTTING
A1 = CROSS SECT.OBTAINED COMBINING RESULTS FROM 2 EXPTS,IN DE AND IN HYDROGEN
AO = A TRUE AND O TRUE
AU = A TRUE AND U TRUE
B1 = NOT CORRECTED FOR OTHER DECAY MODES OF RESONANCE
WR = WARNING *** RESONANT STATE NOT WELL ESTABLISHED
1H = COULOMB CONTRIB. SUBTRACTED **** ALSO CROSS SECT. OBTAINED FROM TAU COUNT
S3 = SYSTEMATIC ERROR IS 0.3 PER CENT
S4 = SYSTEMATIC ERROR IS 0.4 PER CENT
S5 = SYSTEMATIC ERROR IS 0.5 PER CENT
S6 = SYSTEMATIC ERROR IS 0.6 PER CENT
S7 = SYSTEMATIC ERROR IS 1.4 PER CENT

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TABLE 5
LIST OF REACTIONS

REACTION NUMBER		REACTION
1	----------	K-P=TOTAL
2	----------	K-P=K-P
3	----------	K-P=PK- (BACKWARD SCATTERING)
4	----------	K-P=0 PRONGS
5	----------	K-P=0 PRONGS,V0
6	----------	K-P=0 PRONGS,2V0
7	----------	K-P=0 PRONGS,3V0
8	----------	K-P=0 PRONGS,K0
9	----------	K-P=2 PRONGS
10	----------	K-P=2 PRONGS,Z0
11	----------	K-P=2 PRONGS,2V0
12	----------	K-P=2 PRONGS,3V0
13	----------	K-P=2 PRONGS,K0
14	----------	K-P=2 PRONGS INELASTIC
15	----------	K-P=4 PRONGS
16	----------	K-P=4 PRONGS,V0
17	----------	K-P=4 PRONGS,2V0
18	----------	K-P=4 PRONGS,K0
19	----------	K-P=6 PRONGS
20	----------	K-P=6 PRONGS,K0
21	----------	K-P=8 PRONGS
22	----------	K-P=8 PRONGS,K0
23	----------	K-P=INELASTIC
24	----------	K-P=PPK-AP
25	----------	K-P=PPK0PI-AP
26	----------	K-P=PK+K-K-
27	----------	K-P=PK-PI+PI-
28	----------	K-P=PK-PI+PI-PI0
29	----------	K-P=PK-PI0
30	----------	K-P=PK-2PI+2PI-
31	----------	K-P=PK-2PI+2PI-PI0
32	----------	K-P=PK-Z0
33	----------	K-P=PK-KSKS
34	----------	K-P=PK-KSKSPI0
35	----------	K-P=PK-KSKSZ0
36	----------	K-P=PK-OM
37	----------	K-P=PK0PI+PI-PI-
38	----------	K-P=PK0PI+PI-PI- (NON RESON.)
39	----------	K-P=PK0PI+PI-PI-PI0
40	----------	K-P=PK0PI+PI-PI-PI0 (NON RES.)
41	----------	K-P=PK0PI-
42	----------	K-P=PK0PI-PI0
43	----------	K-P=PK0PI-Z0
44	----------	K-P=PK02PI+3PI-
45	----------	K-P=(P/N)K0K0K
46	----------	K-P=(P/N)K0K0KMPI
47	----------	K-P=PKSKSKSPI-
48	----------	K-P=(P/N)K
49	----------	K-P=PETK-
50	----------	K-P=PETK-=PK-PI+PI-PI0
51	----------	K-P=(P/N)K725
52	----------	K-P=PRH+K-PI-
53	----------	K-P=PRH-K-PI+
54	----------	K-P=PRH-K0
55	----------	K-P=PRH0K-
56	----------	K-P=PRH0K0PI-
57	----------	K-P=POMK-
58	----------	K-P=POMK-=PK-PI+PI-PI0
59	----------	K-P=POMK- (NON RESONANT)
60	----------	K-P=POMK0PI-
61	----------	K-P=PK*-890
62	----------	K-P=P(K*890PI)-
63	----------	K-P=PK*-890=PK-PI0
64	----------	K-P=PK*-890=PK0PI-
65	----------	K-P=PK*-890PI+PI-
66	----------	K-P=PK*-890PI+PI-=PK-PI+PI-PI0
67	----------	K-P=PK*-890PI+PI-=PK0PI+PI-PI-
68	----------	K-P=PK*-PI+PI-PI0(K*-=K0PI-)
69	----------	K-P=PK*-890PI0
70	----------	K-P=PK*-890PI0=PK0PI-PI0
71	----------	K-P=PK*-890RH0=PK0PI+PI-PI-
72	----------	K-P=PK*-890OM=PK0PI+PI-PI-PI0
73	----------	K-P=PK*0890PI-
74	----------	K-P=PK*0890PI-=PK-PI+PI-
75	----------	K-P=PK*0890PI-=PK0PI-PI0
76	----------	K-P=PK*0890PI-PI0=PK-PI+PI-PI0
77	----------	K-P=PDELK-=PK-PI+PI-PI0
78	----------	K-P=(P/N)K*
79	----------	K-P=PPHIK-=PK+K-K-
80	----------	K-P=PA10K-=PK-PI+PI-PI0
81	----------	K-P=PFK-=PK+K-K-
82	----------	K-P=PA20K-=PK-PI+PI-PI0
83	----------	K-P=PK*-1320
84	----------	K-P=PK*-1320=PK-PI+PI-
85	----------	K-P=PK*-1320=PK-PI0PI0
86	----------	K-P=PK*-1320=PK0PI-PI0
87	----------	K-P=PK*-1320=PKPI
88	----------	K-P=PK*-1320=PKPIPI (DIRECT)
89	----------	K-P=PK*-1320=PK*890PI
90	----------	K-P=PK*-1320=PRHK
91	----------	K-P=PK*-1320=POMK
92	----------	K-P=PK*-1400
93	----------	K-P=PK*-1400=PK-PI0
94	----------	K-P=PK*-1400=PK0PI-
95	----------	K-P=PK*-1400=PKPIPI
96	----------	K-P=PK*-1400=PETK
97	----------	K-P=PK*-1400=P(KPI)-
98	----------	K-P=PK*-1400=PRH0K-
99	----------	K-P=PK*-1400=PRHK
100	----------	K-P=PK*-1400=PK*890PI
101	----------	K-P=PK*-1400=PK*0890PI-=PK-2PI
102	----------	K-P=PK*-1400=POMK
103	----------	K-P=PK*-1790
104	----------	K-P=PK*-1790=PKPI
105	----------	K-P=PK*-1790=PK-PI+PI-
106	----------	K-P=PK*-1790=PK-PI0PI0
107	----------	K-P=PK*-1790=PK0PI-PI0
108	----------	K-P=PK*-1790=PKPIPI (DIRECT)
109	----------	K-P=PK*-1790=POMK
110	----------	K-P=PK*-1790=PRHK
111	----------	K-P=PK*-1790=PK*0890PI-
112	----------	K-P=PK*-1790=PK*890PI
113	----------	K-P=PK*-1790=PK*890ET
114	----------	K-P=PK*-1790=PK*1400PI
115	----------	K-P=PK*-1790=PPHIK
116	----------	K-P=(P/N)KPI
117	----------	K-P=(P/N)K0K0KPI
118	----------	K-P=(PPI0/NPI+)K0PI-
119	----------	K-P=NK+KSKSPI-
120	----------	K-P=NK-PI+
121	----------	K-P=NK-PI+PI+PI-
122	----------	K-P=NK-PI+Z0
123	----------	K-P=NK-3PI+2PI-
124	----------	K-P=NK-KSKSPI+
125	----------	K-P=NK0
126	----------	K-P=NK0PI+PI+PI-PI-
127	----------	K-P=NK0PI+PI+PI-PI- (NON RES.)
128	----------	K-P=NK0PI+PI-
129	----------	K-P=NK0PI0
130	----------	K-P=NKSKSKS
131	----------	K-P=NRH0K0
132	----------	K-P=NK*-890PI+
133	----------	K-P=NK*-890PI+=NK0PI+PI-
134	----------	K-P=NK*-8902PI+PI-(K*-=K0PI-)
135	----------	K-P=NK*0890
136	----------	K-P=NK*0890=NK-PI+
137	----------	K-P=NK*0890PI+PI-=NK-PI+PI+PI-
138	----------	K-P=NK*0890PI-=NK-PI+PI-
139	----------	K-P=NDELK-=NK-PI+PI+PI-
140	----------	K-P=NK*01400
141	----------	K-P=NK*01400=NK-PI+
142	----------	K-P=NK*01400=NK0PI+PI-
143	----------	K-P=NK*01400=NK0PI+PI-(DIRECT)
144	----------	K-P=NK*01400=N(KPI)0
145	----------	K-P=NK*01400=NRH0K0
146	----------	K-P=NK*01400=NK*-890PI+=NK02PI
147	----------	K-P=NK*01400=NK*890PI
148	----------	K-P=NK*01790=NK0PI+PI-
149	----------	K-P=NK*01790=NK*(+,-)890PI
150	----------	K-P=N***1236K-PI-
151	----------	K-P=N***1236K-PI-PI0
152	----------	K-P=N***1236K0PI-PI-
153	----------	K-P=N***1236K0PI-PI-PI0
154	----------	K-P=N***1236K*-890PI-(K*=K0PI)
155	----------	K-P=N***K*-PI-PI0(K*-=K0PI-)
156	----------	K-P=N**1236K-
157	----------	K-P=N**1236K-=PK-PI0
158	----------	K-P=N**1236K-=NK-PI+
159	----------	K-P=N**1236K-PI+PI-=PK-2PIPI0
160	----------	K-P=N**1236K-PI+PI-=NK-2PI+PI-
161	----------	K-P=N**1236K0PI-
162	----------	K-P=N**1236K0PI-=PK0PI-PI0
163	----------	K-P=N**1236K0PI-=NK0PI+PI-
164	----------	K-P=N**1236K*-890
165	----------	K-P=N**1236K*-890=PK0PI-PI0
166	----------	K-P=N**1236K*-890=NK0PI+PI-
167	----------	K-P=N**1236K*-890=N**K0PI-
168	----------	K-P=N**1236K*-PI+PI-(K*=K0PI-)
169	----------	K-P=N*-1236K-PI+=NK-PI+PI-
170	----------	K-P=N*-1236K-PI+PI+=NK-2PI+PI-
171	----------	K-P=N*-1236K0PI+
172	----------	K-P=N*-1236K0PI+PI+PI-
173	----------	K-P=N*-1236K*0890=NK-PI+PI-
174	----------	K-P=N*01236K-PI+
175	----------	K-P=N*01236K-PI+=PK-PI+PI-
176	----------	K-P=N*01236K0
177	----------	K-P=N*01236K0=PK0PI-
178	----------	K-P=N*01236K0PI0=PK0PI-PI0
179	----------	K-P=N*01236K*0890
180	----------	K-P=N*01236K*0890=PK-PI+PI-
181	----------	K-P=N*01236K*0890=PK0PI-PI0
182	----------	K-P=N*1236K
183	----------	K-P=N*(0,+)K*(0,-)890
184	----------	K-P=N+1400K-=NK-PI+
185	----------	K-P=N+1525K*-890=(P/N)PIK0PI-
186	----------	K-P=N01525K*0890=PK(0,-)PIPI-
187	----------	K-P=N+1688K-=PK-PI+PI-
188	----------	K-P=N+1688K-=NK-PI+
189	----------	K-P=N+1688K*-890
190	----------	K-P=N01688K0=PK0PI-
191	----------	K-P=N01688K*0890
192	----------	K-P=LPAP
193	----------	K-P=LPPI+PI-AP
194	----------	K-P=LPK+K-AP
195	----------	K-P=LLAL
196	----------	K-P=LPI0
197	----------	K-P=LPI0PI0
198	----------	K-P=LZ0
199	----------	K-P=LPI+PI-
200	----------	K-P=LPI+PI- (NON RESONANT)
201	----------	K-P=LPI+PI-PI0
202	----------	K-P=LPI+PI-Z0
203	----------	K-P=LPI+PI+PI-PI-
204	----------	K-P=LPI+PI+PI-PI-PI0
205	----------	K-P=LPI+PI+PI-PI-Z0
206	----------	K-P=L3PI+3PI-
207	----------	K-P=L3PI+3PI-PI0
208	----------	K-P=L3PI+3PI-Z0
209	----------	K-P=L4PI+4PI-
210	----------	K-P=L4PI+4PI-PI0

211 ---------- K-P=L4PI+4PI-Z0
212 ---------- K-P=LK+K-
213 ---------- K-P=LK+K- (NON PHI)
214 ---------- K-P=LK+K- (NO PHI,F*)
215 ---------- K-P=LK+K-PI+PI- (NO PHI)
216 ---------- K-P=LK+K-PI0
217 ---------- K-P=LK+K0PI+PI-PI-
218 ---------- K-P=LK+K0PI-
219 ---------- K-P=LK+K0PI-PI0
220 ---------- K-P=LK+K0PI-Z0
221 ---------- K-P=LK+K04PI
222 ---------- K-P=LK-K0PI+
223 ---------- K-P=LK-K0PI+PI0
224 ---------- K-P=LK-K0PI+Z0
225 ---------- K-P=LK-K04PI
226 ---------- K-P=LK0PI+PI-Z0
227 ---------- K-P=LK0Z0
228 ---------- K-P=LK0K(+,-)PI(-,+)
229 ---------- K-P=LK0K0
230 ---------- K-P=LK0K0 (NON PHI)
231 ---------- K-P=LK0K0 (NO PHI,F*)
232 ---------- K-P=LK0K0PI+PI-PI0
233 ---------- K-P=LK0K0PI0
234 ---------- K-P=LK0K0Z0
235 ---------- K-P=LKSKS
236 ---------- K-P=LKSKSPI+PI-
237 ---------- K-P=LKSKSPI0
238 ---------- K-P=LKSKSZ0
239 ---------- K-P=LKSKL
240 ---------- K-P=LKSKL (NON PHI)
241 ---------- K-P=LK0K0PI+PI- (NO PHI)
242 ---------- K-P=LKSKLPI+PI-
243 ---------- K-P=LET
244 ---------- K-P=LET=NEUTRALS
245 ---------- K-P=LET=LPI+PI-PI0
246 ---------- K-P=LET=LZ0
247 ---------- K-P=LETPI+PI-
248 ---------- K-P=LETPI+PI-=LPI+PI+PI-PI-PI0
249 ---------- K-P=LETPI+PI-=LPI+PI-Z0
250 ---------- K-P=LRH+PI+2PI-
251 ---------- K-P=LRH+PI-
252 ---------- K-P=LRH-PI+
253 ---------- K-P=LRH-PI+PI+PI-
254 ---------- K-P=LRH0
255 ---------- K-P=LRH0 (BACKWARD)
256 ---------- K-P=LRH0PI+PI-PI0
257 ---------- K-P=LRH0PI0
258 ---------- K-P=LOM
259 ---------- K-P=LOM (FORWARD)
260 ---------- K-P=LOM (BACKWARD)
261 ---------- K-P=LOM=LPI+PI-PI0
262 ---------- K-P=LOM=LZ0
263 ---------- K-P=LOMPI+PI-
264 ---------- K-P=LK*+890K-PI0
265 ---------- K-P=LK*+890K0PI-
266 ---------- K-P=LK*+890(KPI)-
267 ---------- K-P=LK*-890K+PI0
268 ---------- K-P=LK*-890K0PI+
269 ---------- K-P=LK*-890(KPI)+
270 ---------- K-P=LK*0890(KPI)0=LK+(KPI)0PI-
271 ---------- K-P=LK*0890(KPI)0=LK-(KPI)0PI+
272 ---------- K-P=LK*0890K+PI-=LK+K-PI+PI-
273 ---------- K-P=LK*0890K0PI0=LK+K0PI-PI0
274 ---------- K-P=LK*0890K0PI0=LK-K0PI+PI0
275 ---------- K-P=L(RHPI)0
276 ---------- K-P=LK*K
277 ---------- K-P=LX0
278 ---------- K-P=LX0 (BACKWARD)
279 ---------- K-P=LX0=LETPI+PI-
280 ---------- K-P=LX0=LETPI+PI-=LPI+PI-Z0
281 ---------- K-P=LX0=LETPI+PI-=L2PI+2PI-PI0
282 ---------- K-P=LPHI
283 ---------- K-P=LPHI (FORWARD)
284 ---------- K-P=LPHI (BACKWARD)
285 ---------- K-P=LPHI=NEUTRALS
286 ---------- K-P=LPHI=LPI+PI-PI0
287 ---------- K-P=LPHI=LK+K-
288 ---------- K-P=LPHI=LK0K0
289 ---------- K-P=LPHI=LKSKL
290 ---------- K-P=LPHI=LK0K0/LK+K-
291 ---------- K-P=LPHIPI+PI-
292 ---------- K-P=LPHIPI+PI-=LK+K-PI+PI-
293 ---------- K-P=LPHIPI+PI-=LKSKLPI+PI-
294 ---------- K-P=LPHIPI0
295 ---------- K-P=LPHIPI0=LK+K-PI0
296 ---------- K-P=LA1+PI-
297 ---------- K-P=LA1+PI-PI0
298 ---------- K-P=LF
299 ---------- K-P=LF=LPI+PI-
300 ---------- K-P=LFPI+PI-PI0
301 ---------- K-P=LFPI0
302 ---------- K-P=LFPI0=LPI+PI-PI0
303 ---------- K-P=LD-=LDELOPI-
304 ---------- K-P=LA20
305 ---------- K-P=LA20=LRH-PI+
306 ---------- K-P=LF*
307 ---------- K-P=LF* (BACKWARD)
308 ---------- K-P=LF*=LKK (BACKWARD)
309 ---------- K-P=LF*=LK+K-
310 ---------- K-P=LF*=LK0K0
311 ---------- K-P=LF*=LKK
312 ---------- K-P=LF*=LK*K
313 ---------- K-P=LF*PI0=LK0K0PI0
314 ---------- K-P=(L/S0)PK-(AL/AS0)
315 ---------- K-P=(L/S0)NK0(AL/AS0)
316 ---------- K-P=(L/S0)NK0PI0(AL/AS0)
317 ---------- K-P=(L/S0)(L/S0)(AL/AS0)
318 ---------- K-P=LA3=LOMPI+PI-
319 ---------- K-P=(L/S0)
320 ---------- K-P=(L/S0)PI+PI+PI-PI-
321 ---------- K-P=(L/S0)PI+PI+PI-PI-PI0
322 ---------- K-P=(L/S0)PI+PI+PI-PI-Z0
323 ---------- K-P=(L/S0)PI+PI-
324 ---------- K-P=(L/S0)PI+PI-PI0
325 ---------- K-P=(L/S0)PI+PI-Z0
326 ---------- K-P=(LPI0/S0)PI+PI-PI0
327 ---------- K-P=(L/S0)PI0
328 ---------- K-P=(L/S0)PI0PI0
329 ---------- K-P=(L/S0)Z0
330 ---------- K-P=(L/S0)K+K0PI-
331 ---------- K-P=(L/S0)K-K0PI+
332 ---------- K-P=(L/S0)K0K0 (NO F*)
333 ---------- K-P=(L/S0)K0K0PI+PI-
334 ---------- K-P=(L/S0)K*+890K-
335 ---------- K-P=(L/S0)K*-890K+
336 ---------- K-P=(L/S0)K*0890K0
337 ---------- K-P=(L/S0)F*
338 ---------- K-P=(L/S0)F*=(L/S0)KSKS
339 ---------- K-P=(L/S0)F*=(L/S0)K*K
340 ---------- K-P=S(+,-)PI(-,+)PI0
341 ---------- K-P=S(+,-)RH(-,+)
342 ---------- K-P=S(+,-)K*+890KPI
343 ---------- K-P=S(+,-)PHIPI(-,+)=SKSKLPI
344 ---------- K-P=S(+,-)PHIPI(-,+)
345 ---------- K-P=S+PI+PI-PI-
346 ---------- K-P=S+PI+PI-PI-PI0
347 ---------- K-P=S+PI+2PI-Z0
348 ---------- K-P=S+PI-
349 ---------- K-P=S+PI-PI0
350 ---------- K-P=S+PI-PI0 (NON RESONANT)
351 ---------- K-P=S+PI-PI0PI0
352 ---------- K-P=S+PI-Z0
353 ---------- K-P=S+K+K-PI-
354 ---------- K-P=S+K+K-PI- (NO PHI)
355 ---------- K-P=S+K+K0PI-PI-
356 ---------- K-P=S+K-K0
357 ---------- K-P=S+K-K0PI+PI-
358 ---------- K-P=S+K-K0PI0
359 ---------- K-P=S+K-K0Z0
360 ---------- K-P=S+K0K0PI- (NO PHI)
361 ---------- K-P=S+K0K0PI-PI0
362 ---------- K-P=S+K0K3PI
363 ---------- K-P=S+KSKSPI-
364 ---------- K-P=S+KSKSPI-PI0
365 ---------- K-P=S+KSKSPI-Z0
366 ---------- K-P=S+KSKLPI-
367 ---------- K-P=S+ETPI-
368 ---------- K-P=S+RH-
369 ---------- K-P=S+RH0PI-
370 ---------- K-P=S+OMPI-
371 ---------- K-P=S+OMPI-=S+PI+PI-PI-PI0
372 ---------- K-P=S+K*-890K0
373 ---------- K-P=S+K*-890(KPI)0
374 ---------- K-P=S+K*0890K-=S+K+K-PI- *
375 ---------- K-P=S+PHIPI-
376 ---------- K-P=S+PHIPI-=S+K+K-PI-
377 ---------- K-P=S+PHIPI-=S+KSKLPI-
378 ---------- K-P=S+A2-=S+RH0PI-
379 ---------- K-P=S-PI+
380 ---------- K-P=S-PI+PI+PI-
381 ---------- K-P=S-PI+PI+PI-PI0
382 ---------- K-P=S-PI+PI0
383 ---------- K-P=S-PI+PI0 (NON RESONANT)
384 ---------- K-P=S-PI+PI0PI0
385 ---------- K-P=S-PI+Z0
386 ---------- K-P=S-2PI+PI-Z0
387 ---------- K-P=S-K+K-PI+
388 ---------- K-P=S-K+K-PI+ (NO PHI)
389 ---------- K-P=S-K+K0
390 ---------- K-P=S-K+K0PI+PI-
391 ---------- K-P=S-K+K0PI0
392 ---------- K-P=S-K+K0Z0
393 ---------- K-P=S-K-K0PI+PI+
394 ---------- K-P=S-K0K0PI+
395 ---------- K-P=S-K0K0PI+ (NO PHI)
396 ---------- K-P=S-K0K0PI+PI0
397 ---------- K-P=S-K0K3PI
398 ---------- K-P=S-KSKSPI+
399 ---------- K-P=S-KSKLPI+
400 ---------- K-P=S-ETPI+
401 ---------- K-P=S-RH+
402 ---------- K-P=S-RH0PI+
403 ---------- K-P=S-OMPI+
404 ---------- K-P=S-K*+890K0
405 ---------- K-P=S-K*0890K+=S-K+K-PI+
406 ---------- K-P=S-PHIPI+
407 ---------- K-P=S-PHIPI+=S-K+K-PI+
408 ---------- K-P=S-PHIPI+=S-KSKLPI+
409 ---------- K-P=S0PI+PI-
410 ---------- K-P=S0PI+PI-PI0
411 ---------- K-P=S0PI0
412 ---------- K-P=S02PI+2PI-
413 ---------- K-P=S0K+K-
414 ---------- K-P=S0K+K- (NON PHI)
415 ---------- K-P=S0K+K0PI-
416 ---------- K-P=S0K-K0PI+
417 ---------- K-P=S0K0K0
418 ---------- K-P=S0KSKS
419 ---------- K-P=S0KSKSPI+PI-
420 ---------- K-P=S0KSKL
421 ---------- K-P=S0RH0
422 ---------- K-P=S0PHI
423 ---------- K-P=S0PHI=S0K+K-
424 ---------- K-P=S0F=S0PI+PI-
425 ---------- K-P=Y*+1385PI+2PI-=L2PI+2PI-
426 ---------- K-P=Y*+1385PI+2PI-PI0=L5PI
427 ---------- K-P=Y*+1385PI+2PI-Z0=L5PIZ0
428 ---------- K-P=Y*(+,-)1385PI(-,+)
429 ---------- K-P=Y*+1385PI-
430 ---------- K-P=Y*+1385PI- (BACKWARD)
431 ---------- K-P=Y*+1385PI-=LPI+PI-
432 ---------- K-P=Y*+1385PI-=S0PI+PI-
433 ---------- K-P=Y*+1385PI-PI0
434 ---------- K-P=Y*+1385PI-PI0=LPI+PI-PI0
435 ---------- K-P=Y*+1385PI-Z0
436 ---------- K-P=Y*+1385PI-Z0=LPI+PI-Z0
437 ---------- K-P=Y*(+,-)1385(KK)=LKK0PI
438 ---------- K-P=Y*+1385RH-
439 ---------- K-P=Y*+1385RH- (BACKWARD)
440 ---------- K-P=Y*+1385RH-=LPI+PI-PI0
441 ---------- K-P=Y*+1385DEL-=Y*+13852PI
442 ---------- K-P=Y*+1385DEL-=Y*+1385KK
443 ---------- K-P=Y*+1385DEL-=Y*+1385ETPI-
444 ---------- K-P=Y*+1385DEL0=LETPI+PI-
445 ---------- K-P=Y*-1385PI+
446 ---------- K-P=Y*-1385PI+ (BACKWARD)
447 ---------- K-P=Y*-1385PI+=LPI+PI-
448 ---------- K-P=Y*-1385PI+PI0
449 ---------- K-P=Y*-1385PI+PI0=LPI+PI-PI0
450 ---------- K-P=Y*-1385PI+Z0=LPI+PI-Z0
451 ---------- K-P=Y*-13852PI+PI-=L2PI+2PI-
452 ---------- K-P=Y*-13852PI+PI-PI0=L5PI
453 ---------- K-P=Y*-13852PI+PI-Z0=L5PIZ0
454 ---------- K-P=Y*-1385RH+

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455  ----------  K-P=Y*-1385RH+ (BACKWARD)
456  ----------  K-P=Y*-1385RH+=LPI+PI-PIO
457  ----------  K-P=Y*01385PI+2PI-=L5PI
458  ----------  K-P=Y*01385PI+PI-
459  ----------  K-P=Y*01385PI+PI-=LPI+PI-PIO
460  ----------  K-P=Y*01385PIO
461  ----------  K-P=Y*01385PIO=S+PI-PIO
462  ----------  K-P=Y*01385RHO
463  ----------  K-P=Y*01385RHO=LPI+PI-PIO
464  ----------  K-P=Y*01385PHI
465  ----------  K-P=Y*01385PHI=LK+K-PIO
466  ----------  K-P=Y1405PI+PI-
467  ----------  K-P=Y1405PI+PI-=S(+,-)PIPI+PI-
468  ----------  K-P=Y1405PIO
469  ----------  K-P=Y1405PIO=S(+,-)PI(-,+)PIO
470  ----------  K-P=Y1405PIO=S+PI-PIO
471  ----------  K-P=Y1405PIO=S-PI+PIO
472  ----------  K-P=Y1405K+K-
473  ----------  K-P=Y1405KOKO=S(+,-)KOKOPI+,-
474  ----------  K-P=Y1405RHO
475  ----------  K-P=Y1405RHO=S(+,-)PIPI+PI-
476  ----------  K-P=Y1405OM
477  ----------  K-P=Y1405OM=S(+,-)PIPI+PI-PIO
478  ----------  K-P=Y1405PHI
479  ----------  K-P=Y1405PHI=S(+,-)K+K-PI(-,+)
480  ----------  K-P=Y1520PI+PI-
481  ----------  K-P=Y1520PI+PI-=PK-PI+PI-
482  ----------  K-P=Y1520PI+PI-=LPI+PI+PI-PI-
483  ----------  K-P=Y1520PI+PI-=S+PI+PI-PI-
484  ----------  K-P=Y1520PI+PI-=S-PI+PI+PI-
485  ----------  K-P=Y1520PI+PI-=S(+,-)PIPI+PI-
486  ----------  K-P=Y1520PIO
487  ----------  K-P=Y1520PIO=PK-PIO
488  ----------  K-P=Y1520PIO=LPI+PI-PIO
489  ----------  K-P=Y1520PIO=S(+,-)PI(-,+)PIO
490  ----------  K-P=Y1520PIO=S+PI-PIO
491  ----------  K-P=Y1520PIO=S-PI+PIO
492  ----------  K-P=Y1520PIO=(S+,-PI/LPI+PI)PI
493  ----------  K-P=Y1520K+K-
494  ----------  K-P=Y1520K+K-=PK+K-K-
495  ----------  K-P=Y1520KOKO=S(+,-)KOKOPI+,-
496  ----------  K-P=Y1520RHO
497  ----------  K-P=Y1520RHO=S(+,-)PIPI+PI-
498  ----------  K-P=Y1520RHO=(S+,-PI/NK)PI+PI-
499  ----------  K-P=Y1520OM
500  ----------  K-P=Y1520OM=POMK-
501  ----------  K-P=Y1520OM=S(+,-)PIPI+PI-PIO
502  ----------  K-P=Y1520PHI
503  ----------  K-P=Y1520PHI=S(+,-)K+K-PI(-,+)
504  ----------  K-P=Y*+1660PI-
505  ----------  K-P=Y*+1660PI-=PKOPI-
506  ----------  K-P=Y*+1660PI-=LPI+PI-
507  ----------  K-P=Y*+1660PI-=LPI+PI-PIO
508  ----------  K-P=Y*+1660PI-=(SPI)+PI-
509  ----------  K-P=Y*+1660PI-=S(+,-)PIPI+PI-
510  ----------  K-P=Y*+1660PI-=(SPIPI)+PI-
511  ----------  K-P=Y*+1660PI-=S+,02PI/S+,-3PI
512  ----------  K-P=Y*-1660PI+=NK-PI+
513  ----------  K-P=Y*-1660PI+=LPI+PI-
514  ----------  K-P=Y*01660PI+PI-=S(+,-)3PI
515  ----------  K-P=Y*01660PIO=PK-PIO
516  ----------  K-P=Y*01660PIO=S+PI-PIO
517  ----------  K-P=Y*01660RHO=S(+,-)PIPI+PI-
518  ----------  K-P=Y*01660OM=POMK-
519  ----------  K-P=Y1670PIO=S(+,-)PI(-,+)PIO
520  ----------  K-P=Y*+1690PI-=LPI+PI-
521  ----------  K-P=Y*+1690PI- (BACKWARD)
522  ----------  K-P=Y*+1770PI-
523  ----------  K-P=Y*+1770PI-=PKOPI-
524  ----------  K-P=Y*+1770PI-=S+PI-PIO
525  ----------  K-P=Y*+1770PI-=Y1520PI+PI-
526  ----------  K-P=Y*-1770PI+=NK-PI+
527  ----------  K-P=Y*01770PIO=PK-PIO
528  ----------  K-P=Y*01770PIO=S+PI-PIO
529  ----------  K-P=Y1820PI+PI-=S(+,-)PIPI+PI-
530  ----------  K-P=Y1820PIO=S(+,-)PI(-,+)PIO
531  ----------  K-P=Y1820RHO
532  ----------  K-P=Y*(1815/1765)OM=POMK-
533  ----------  K-P=Y*+1910PI-=LPI+PI-
534  ----------  K-P=Y*(2065/2100)OM=POMK-
535  ----------  K-P=XI
536  ----------  K-P=XI-
537  ----------  K-P=XI-PK+AP
538  ----------  K-P=XI-PK-AXI+
539  ----------  K-P=XI-PAL
540  ----------  K-P=XI-PI+PI+PI-Z0
541  ----------  K-P=XI-PI+Z0
542  ----------  K-P=XIK
543  ----------  K-P=XI-K+
544  ----------  K-P=XIKPI
545  ----------  K-P=XIK2PI
546  ----------  K-P=XIK3PI
547  ----------  K-P=XIK4PI
548  ----------  K-P=XIK5PI
549  ----------  K-P=XIK6PI
550  ----------  K-P=XIK7PI
551  ----------  K-P=XI-K+PI+PI+PI-PI-
552  ----------  K-P=XI-K+PI+PI+PI-PI-PIO
553  ----------  K-P=XI-K+PI+PI-
554  ----------  K-P=XI-K+PI+PI-PIO
555  ----------  K-P=XI-K+PI+PI-Z0
556  ----------  K-P=XI-K+PIO
557  ----------  K-P=XI-K+PIOPIO
558  ----------  K-P=XI-K+Z0
559  ----------  K-P=XI-K+K+K-
560  ----------  K-P=XI-K+KSKL
561  ----------  K-P=XI-KOPI+
562  ----------  K-P=XI-KOPI+PI+PI+PI-PI-
563  ----------  K-P=XI-KOPI+PI+PI-
564  ----------  K-P=XI-KOPI+PI+PI-PIO
565  ----------  K-P=XI-KOPI+PI+PI-Z0
566  ----------  K-P=XI-KOPI+PIO
567  ----------  K-P=XI-KOPI+Z0
568  ----------  K-P=XI-(KPI)+
569  ----------  K-P=XI-K+725
570  ----------  K-P=XI-RH+KO
571  ----------  K-P=XI-RHOK+
572  ----------  K-P=XI-K*+890
573  ----------  K-P=XI-K*+890=XI-K+PIO
574  ----------  K-P=XI-K*+890=XI-KOPI+
575  ----------  K-P=XI-K*+890PI+PI-
576  ----------  K-P=XI-K*+890PIO
577  ----------  K-P=XI-K*+890PIO (NO XI*)
578  ----------  K-P=XI-K*+890PIO=XI-KOPI+PIO
579  ----------  K-P=XI-K*0890PI+
580  ----------  K-P=XI-K*0890PI+ (NO XI*)
581  ----------  K-P=XI-K*0890PI+=XI-K(+,0)2PI
582  ----------  K-P=XI-K*0890PI+PIO
583  ----------  K-P=XI-K*0890PI+PIO=XI-K+3PI
584  ----------  K-P=XI-PHIK+
585  ----------  K-P=XIOK+PI-
586  ----------  K-P=XIOKO
587  ----------  K-P=XIOKOPI+PI-
588  ----------  K-P=XIOKOPI+PI-Z0
589  ----------  K-P=XIOKOPIO
590  ----------  K-P=XIOKOZO
591  ----------  K-P=XIO(KPI)O
592  ----------  K-P=XIOK*+890PI-=XIOKOPI+PI-
593  ----------  K-P=XIOK*+890PI- (NO XI*)
594  ----------  K-P=XIOK*0890
595  ----------  K-P=XIOK*0890=XIOK+PI-
596  ----------  K-P=XI*-1530K+
597  ----------  K-P=XI*-1530K+=XI-K+PIO
598  ----------  K-P=XI*-1530K+=XIOK+PI-
599  ----------  K-P=XI*-1530K+PI+PI-
600  ----------  K-P=XI*-1530KOPI+
601  ----------  K-P=XI*-1530KOPI+ (NO K*)
602  ----------  K-P=XI*-1530KOPI+=(XIPI)-KOPI+
603  ----------  K-P=XI*-1530K*+890
604  ----------  K-P=XI*01530
605  ----------  K-P=XI*01530K+PI-
606  ----------  K-P=XI*01530K+PI-=XI-K+PI+PI-
607  ----------  K-P=XI*01530K+PI- (NO K*)
608  ----------  K-P=XI*0K+PI-PIO=XI-K+PI+PI-PI
609  ----------  K-P=XI*01530K+PI-PIO
610  ----------  K-P=XI*01530KO
611  ----------  K-P=XI*01530KO=XI-KOPI+
612  ----------  K-P=XI*01530KOPI+PI-
613  ----------  K-P=XI*0KOPI+PI-=XI-K02PI+PI-
614  ----------  K-P=XI*01530KOPIO
615  ----------  K-P=XI*01530KOPIO (NO K*)
616  ----------  K-P=XI*01530KOPIO=XI-KOPI+PIO
617  ----------  K-P=XI*01530K*0890
618  ----------  K-P=XI*-1700K+=XI-K+PIO
619  ----------  K-P=XI*01700KO=XI-KOPI+
620  ----------  K-P=XI*-1815K+=LK+K-
621  ----------  K-P=XI*01815KO=LKOKO
622  ----------  K-P=XI*01815KO=XI-KOPI+
623  ----------  K-P=XI*1815KO,+PI+,-=LK+,-KOPI
624  ----------  K-P=XI*-1930K+
625  ----------  K-P=XI*01930KO
626  ----------  K-P=OM-
627  ----------  K-P=OM-=LK-
628  ----------  K-P=KO
629  ----------  K-P=KOPI+PI-Z0
630  ----------  K-P=KOZO
631  ----------  K-P=KSKSZO
632  ----------  K-P=KSKSKSZO
633  ----------  K-P=K*01400ET=ET(KPI)O
634  ----------  K-P=AXI+
635  ----------  K-N=TOTAL
636  ----------  K-N=K-N
637  ----------  K-N=INELASTIC
638  ----------  K-N=PK-PI+2PI-
639  ----------  K-N=PK-PI+2PI-PIO
640  ----------  K-N=PK-PI-
641  ----------  K-N=PK-PI-PIO
642  ----------  K-N=PK-PI-Z0
643  ----------  K-N=PKOPI+3PI-
644  ----------  K-N=PKO2PI-
645  ----------  K-N=PKO2PI-PIO
646  ----------  K-N=PKO2PI-Z0
647  ----------  K-N=(P/N)3K
648  ----------  K-N=NK-PI+PI-
649  ----------  K-N=NK-PI+PI- (NON RESON.)
650  ----------  K-N=NK-2PI+2PI-
651  ----------  K-N=NKOPI+PI-PI-
652  ----------  K-N=NKOPI-
653  ----------  K-N=NKOPI- (NON RESONANT)
654  ----------  K-N=NK*-890
655  ----------  K-N=NK*-890=NKOPI-
656  ----------  K-N=NK*0890PI-
657  ----------  K-N=NK*0890PI-=NK-PI+PI-
658  ----------  K-N=N*-1236K-PI+
659  ----------  K-N=N*-1236KO
660  ----------  K-N=N*-1236KO=NKOPI-
661  ----------  K-N=N*-1236K*0890
662  ----------  K-N=N*-1236K*0890=NK-PI+PI-
663  ----------  K-N=N*01236K-
664  ----------  K-N=N*01236K-=PK-PI-
665  ----------  K-N=N-1400=NKOPI-
666  ----------  K-N=NO1520K-=PK-PI-
667  ----------  K-N=LPI+PI-PI-
668  ----------  K-N=LPI+PI-PI-  (NON RES.)
669  ----------  K-N=LPI+PI-PI-PIO
670  ----------  K-N=LPI+PI-PI-PIO (NON RESON.)
671  ----------  K-N=LPI-
672  ----------  K-N=LPI-(BACKWARD)
673  ----------  K-N=LPI-PIO
674  ----------  K-N=LPI-Z0
675  ----------  K-N=LK+K-PI- (NON PHI)
676  ----------  K-N=LK-KS
677  ----------  K-N=LK-KSPIO
678  ----------  K-N=LETPI-
679  ----------  K-N=LRH-
680  ----------  K-N=LRH- (BACKWARD)
681  ----------  K-N=LRHOPI-
682  ----------  K-N=LOMPI-
683  ----------  K-N=LXOPI-
684  ----------  K-N=LB-
685  ----------  K-N=LB-=LOMPI-
686  ----------  K-N=LDEL-980=LPI-ET
687  ----------  K-N=(L/SO)PI+2PI-Z0
688  ----------  K-N=(L/SO)PI-Z0
689  ----------  K-N=(L/SO)2PI+3PI-
690  ----------  K-N=(L/SO)K+K-PI-
691  ----------  K-N=(L/SO)K-KO
692  ----------  K-N=(L/SO)K-KOPIO
693  ----------  K-N=(L/SO)KSKSPI-
694  ----------  K-N=(L/SO)KSKLPI-
695  ----------  K-N=S+PI+3PI-
696  ----------  K-N=S+PI+3PI-PIO
697  ----------  K-N=S+PI-PI-
698  ----------  K-N=S+PI-PI-PIO
```

699 ---------- K-N=S+2PI-Z0
700 ---------- K-N=S+K-K0PI-
701 ---------- K-N=S-PI+PI-
702 ---------- K-N=S-PI+PI-PI0
703 ---------- K-N=S-PI+PI-Z0
704 ---------- K-N=S-PI0
705 ---------- K-N=S-PI0 (FORWARD)
706 ---------- K-N=S-PI0 (BACKWARD)
707 ---------- K-N=S-2PI+2PI-
708 ---------- K-N=S-2PI+2PI-PI0
709 ---------- K-N=S-Z0
710 ---------- K-N=S-K+K-
711 ---------- K-N=S-K+K0PI-
712 ---------- K-N=S-K-K0PI+
713 ---------- K-N=S-KSKS
714 ---------- K-N=S-KSKSPI0
715 ---------- K-N=S-KSKL
716 ---------- K-N=S-ET
717 ---------- K-N=S-ET=S-PI+PI-PI0
718 ---------- K-N=S-ET(FORWARD)
719 ---------- K-N=S-RH0
720 ---------- K-N=S-RH0=S-PI+PI-
721 ---------- K-N=S-RH0 (FORWARD)
722 ---------- K-N=S-RH0 (BACKWARD)
723 ---------- K-N=S-RH0PI0=S-PI+PI-PI0
724 ---------- K-N=S-OM
725 ---------- K-N=S-OM=S-PI+PI-PI0
726 ---------- K-N=S-OM (FORWARD)
727 ---------- K-N=S-OM (BACKWARD)
728 ---------- K-N=S-X0
729 ---------- K-N=S-X0(FORWARD)
730 ---------- K-N=S-H=S-PI+PI-PI0
731 ---------- K-N=S-PHI
732 ---------- K-N=S-PHI (FORWARD)
733 ---------- K-N=S-PHI (BACKWARD)
734 ---------- K-N=S-F
735 ---------- K-N=S-F (FORWARD)
736 ---------- K-N=S-F (BACKWARD)
737 ---------- K-N=S-F*
738 ---------- K-N=S-F* (FORWARD)
739 ---------- K-N=S-F* (BACKWARD)
740 ---------- K-N=S0PI+2PI-
741 ---------- K-N=S0PI-
742 ---------- K-N=S0PI- (BACKWARD)
743 ---------- K-N=Y*+1385PI-PI-
744 ---------- K-N=Y*+1385PI-PI-PI0
745 ---------- K-N=Y*+PI-PI-PI0 (NON RESON.)
746 ---------- K-N=Y*-1385PI+PI-
747 ---------- K-N=Y*-1385PI+PI-=S-PI+PI-PI0
748 ---------- K-N=Y*-1385PI+PI-PI0
749 ---------- K-N=Y*-1385PI0
750 ---------- K-N=Y*-1385Z0 (Z0 NOT ET)
751 ---------- K-N=Y*-1385K+K-
752 ---------- K-N=Y*-1385KSKL
753 ---------- K-N=Y*-1385ET
754 ---------- K-N=Y*-1385RH0
755 ---------- K-N=Y*-1385OM
756 ---------- K-N=Y*-1385OM=LPI+PI-PI-PI0
757 ---------- K-N=Y*-1385PHI=Y*-1385K+K-
758 ---------- K-N=Y*-1385PHI=Y*-1385KSKL
759 ---------- K-N=Y*01385PI+PI-PI-
760 ---------- K-N=Y*01385PI-
761 ---------- K-N=Y*01385PI-=LPI-PI0
762 ---------- K-N=Y*01385PI- (BACKWARD)
763 ---------- K-N=Y*01385PI-PI0=S-PI+PI-PI0
764 ---------- K-N=Y*(+,0)1385PI-PI-PI(0,+)
765 ---------- K-N=Y1405PI-
766 ---------- K-N=Y1405PI-=S(+,-)PI(-,+)PI-
767 ---------- K-N=Y1405PI-=S-PI+PI-
768 ---------- K-N=Y1405PI-PI0=S-PI+PI-PI0
769 ---------- K-N=Y1405PI- (FORWARD)
770 ---------- K-N=Y1405PI- (BACKWARD)
771 ---------- K-N=Y1520PI-
772 ---------- K-N=Y1520PI-=PK-PI-
773 ---------- K-N=Y1520PI-=NK0PI-
774 ---------- K-N=Y1520PI-=S(+,-)PI(-,+)PI-
775 ---------- K-N=Y1520PI-=S-PI+PI-
776 ---------- K-N=Y1520PI- (FORWARD)
777 ---------- K-N=Y1520PI- (BACKWARD)
778 ---------- K-N=Y1520PI-PI0=S-PI+PI-PI0
779 ---------- K-N=Y*-1610PI0
780 ---------- K-N=Y*-1610Z0 (Z0 NOT ET)
781 ---------- K-N=Y*-1610ET
782 ---------- K-N=Y*-1660PI+PI-=NK-PI+PI-
783 ---------- K-N=Y*-1660PI+PI-=S+-PI-+3PI
784 ---------- K-N=Y*-1660PI+PI-=(SPI)-PI+PI-
785 ---------- K-N=Y*01660PI-PI0=S-PI+PI-PI0
786 ---------- K-N=Y1670PI-=S-PI+PI-
787 ---------- K-N=Y1700PI-
788 ---------- K-N=Y1700PI-=PK-PI-
789 ---------- K-N=Y1700PI-=NK0PI-
790 ---------- K-N=Y1700PI-=S(+,-)PI(-,+)PI-
791 ---------- K-N=Y1700PI- (BACKWARD)
792 ---------- K-N=Y1820PI-
793 ---------- K-N=Y1820PI-=PK-PI-
794 ---------- K-N=Y1820PI-=NK0PI-
795 ---------- K-N=Y1820PI-=S(+,-)PI(-,+)PI-
796 ---------- K-N=Y1820PI-=S-PI+PI-
797 ---------- K-N=Y1820PI- (BACKWARD)
798 ---------- K-N=Y*01910PI-
799 ---------- K-N=Y*01910PI-=PK-PI-
800 ---------- K-N=Y*01910PI-=S(+,-)PI(-,+)PI
801 ---------- K-N=Y*01910PI- (BACKWARD)
802 ---------- K-N=Y2100PI-
803 ---------- K-N=Y2100PI-=PK-PI-
804 ---------- K-N=Y2100PI-=NK0PI-
805 ---------- K-N=Y2100PI-=S(+,-)PI(-,+)PI-
806 ---------- K-N=Y2100PI- (BACKWARD)
807 ---------- K-N=Y2670PI-=NK0PI-
808 ---------- K-N=XI-K+PI+PI-PI-
809 ---------- K-N=XI-K+PI-
810 ---------- K-N=XI-K+PI-PI0
811 ---------- K-N=XI-K0
812 ---------- K-N=XI-K0PI+PI-
813 ---------- K-N=XI-K0PI0
814 ---------- K-N=XI-K0Z0
815 ---------- K-N=K-PI+PI-Z0
816 ---------- K-N=K0PI+2PI-
817 ---------- K-N=K0PI-Z0
818 ---------- K-DE=TOTAL
819 ---------- K-DE=K-DE
820 ---------- K-DE=DEK-PI+PI-
821 ---------- K-DE=DEK0PI-
822 ---------- K-DE=DEK0PI-PI0
823 ---------- K-DE=DERH0K-
824 ---------- K-DE=DEK*-890
825 ---------- K-DE=DEK*0890PI-=DEK-PI+PI-
826 ---------- K-DE=DEK*-1320
827 ---------- K-DE=DEK*-1320=DEK-PI+PI-
828 ---------- K-DE=DEK*-1320=DEK0PI-
829 ---------- K-DE=DEK*-1320=DEK*0PI-
830 ---------- K-DE=DEK*-1320=DEK*0PI-=K-PI+
831 ---------- K-DE=DEK*-1400
832 ---------- K-DE=DEK*01400PI-=DEK-PI+PI-
833 ---------- K-DE=DEK*-1790=DEK-PI+PI-
834 ---------- K-DE=DEK*-1790=DEK0PI-
835 ---------- K-DE=DE*0K-PI+
836 ---------- K-DE=DE**K*-890
837 ---------- K-DE=DE*0K*0890
838 ---------- K-DE=DE*K*0890
839 ---------- K-DE=PPK-PI-
840 ---------- K-DE=PNK-PI+PI-
841 ---------- K-DE=PNK0PI+2PI-
842 ---------- K-DE=PNK0PI-
843 ---------- K-DE=PK0PI-Z0
844 ---------- K-DE=PK*-890Z0
845 ---------- K-DE=N*01236PK*-890
846 ---------- K-DE=LPPI+PI-PI-
847 ---------- K-DE=LPPI-
848 ---------- K-DE=LPPI-PI0
849 ---------- K-DE=LNPI+PI-
850 ---------- K-DE=LN2PI+2PI-
851 ---------- K-DE=(L/S0)PPI-Z0
852 ---------- K-DE=S+PPI-PI-
853 ---------- K-DE=S+NPI+2PI-
854 ---------- K-DE=S-PPI+PI-
855 ---------- K-DE=S-PPI+PI-PI0
856 ---------- K-DE=S-PPI0
857 ---------- K-DE=S-PZ0
858 ---------- K-DE=S-N2PI+PI-
859 ---------- K-DE=S0PPI-

TABLE 6

Description

The heading gives the date of printing, the number assigned to the reaction, the initial state and the final state.

In the table the first three columns describe the initial system, they are labelled, s, KIN. ENERGY, and P LAB, and represent, respectively, the total c.m. energy squared in GeV^2, the kinetic energy in GeV of the incident particle and the laboratory momentum in GeV/c of the incident particle. In the fourth column, labelled SIGMA, is the cross section in millibarns unless otherwise stated. In the fifth column, headed ERROR is the error on the cross section in the same units; however if the error quoted is asymmetric, the plus error is given in the fifth column and the negative error in the sixth (which does not have a heading). In the next section is given the reference which is so entitled. Should a foot note be required a symbol is printed in the last column and then is reprinted and explained below the set of values under the heading = FOOTNOTES".

Finally, if there are sufficient data points a fit of the formula

$$\sigma = K \; p_{LAB}^{+N}$$

is made and the results of this fit are given, that is the values and errors of K and N are quoted together with the number of points fitted, the χ^2-value and the probability of the fit. The fit is made to all data values above a certain lower limit of p_{LAB} and the value of the lower limit is also printed.

K-P

S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FCCT-NOTES
..... REACTION 1							
TOTAL							
2.202	.080	.293	89.3000	4.6000		FERRC-LUZ. PRL8,28-62	
2.208	.084	.300	79.4000	8.6000		NORDIN PR123,2168-61	
2.260	.111	.350	69.3000	4.5000		FERRC-LUZ. PRL8,28-62	
2.278	.121	.366	69.3200	.7900		BOWEN,PR2,2599-70	
2.299	.132	.385	100.1900	.8300		BOWEN,PR2,2599-70	
2.305	.135	.390	77.8000	3.6000		FERRC-LUZ. PRL8,28-62	
2.317	.142	.400	76.2000	6.5000		NORDIN PR123,2168-61	
2.323	.145	.405	69.8000	.6800		BOWEN,PR2,2599-70	
2.358	.164	.434	62.8000	4.6000		FERRC-LUZ. PRL8,28-62	
2.360	.165	.436	56.7000	2.6000		ARMENTER. NPB21,15-70	
2.365	.168	.440	58.4100	.5700		BOWEN,PR2,2599-70	
2.384	.178	.455	48.6000	1.9000		ARMENTER. NPB21,15-70	
2.410	.191	.475	48.4500	.4700		BOWEN,PR2,2599-70	
2.410	.191	.475	45.3000	1.1000		ARMENTER. NPB21,15-70	
2.436	.205	.495	42.3000	1.5000		ARMENTER. NPB21,15-70	
2.451	.213	.506	44.7100	.4500		BOWEN,PR2,2599-70	
2.460	.218	.513	50.1000	4.1000		FERRC-LUZ. PRL8,28-62	
2.462	.219	.514	40.7000	1.6000		ARMENTER. NPB21,15-70	
2.489	.234	.534	40.5000	1.6000		ARMENTER. NPB21,15-70	
2.492	.235	.536	42.1500	.3800		BOWEN,PR2,2599-70	
2.517	.248	.554	39.3000	1.4000		ARMENTER. NPB21,15-70	
2.534	.257	.566	39.1000	.3400		BOWEN,PR2,2599-70	
2.544	.263	.573	35.6000	1.3000		ARMENTER. NPB21,15-70	
2.568	.276	.590	32.9900	.8000		BUGG PR168,1466-68	
2.577	.280	.596	37.8000	.3300		BOWEN,PR2,2599-70	
2.578	.281	.597	36.5000	1.2000		ARMENTER. NPB21,15-70	
2.588	.286	.604	38.5900	1.9000		BUGG PR168,1466-68	
2.607	.296	.617	36.3000	1.2000		ARMENTER. NPB21,15-70	
2.612	.299	.620	32.4000	1.5000		BASTIEN PRL10,188-63	
2.616	.301	.623	34.4000	.6400		BUGG PR168,1466-68	
2.622	.304	.627	36.3600	.2800		BOWEN,PR2,2599-70	
2.622	.304	.627	36.3000	1.2000		ARMENTER. NPB21,15-70	
2.626	.307	.630	35.4000	3.0000		CHAMBE. PR125,1696-62	
2.637	.312	.637	32.7000	1.1000		ARMENTER. NPB21,15-70	
2.663	.326	.655	34.4400	.4800		BUGG PR168,1466-68	
2.666	.328	.657	35.4000	.3300		BOWEN,PR2,2599-70	
2.668	.329	.658	34.9000	1.1000		ARMENTER. NPB21,15-70	
2.697	.344	.677	33.7000	1.1000		ARMENTER. NPB21,15-70	
2.710	.351	.686	35.3300	.3900		BOWEN,PR2,2599-70	
2.712	.352	.687	34.1600	.3900		BUGG PR168,1466-68	
2.730	.362	.699	33.1000	1.1000		ARMENTER. NPB21,15-70	
2.744	.369	.708	32.6000	1.6000		BERTAN. PR177,2036-69	
2.750	.373	.712	35.3700	.3300		BUGG PR168,1466-68	
2.761	.378	.719	35.4000	1.2000		ARMENTER. NPB21,15-70	
2.770	.383	.725	33.3000	1.2000		BERTAN. PR177,2036-69	
2.787	.392	.736	35.6400	.3500		BUGG PR168,1466-68	
2.794	.396	.740	36.8000	1.2000		ARMENTER. NPB21,15-70	
2.795	.397	.741	31.9000	1.4000		BERTAN. PR177,2036-69	
2.812	.406	.752	36.4000	2.5000		CHAMBE. PR125,1696-62	
2.825	.413	.760	40.1000	1.3000		BASTIEN PRL10,188-63	
2.827	.413	.761	38.1000	1.2000		ARMENTER. NPB21,15-70	
2.836	.418	.767	38.5700	.3400		BUGG PR168,1466-68	
2.838	.419	.768	38.5000	1.8000		BERTAN. PR177,2036-69	
2.845	.423	.773	40.6000	1.7000		ARMENTER. NPB21,15-70	
2.852	.427	.777	40.7000	1.6600		ARMENTER. NPB8,233-68	
2.877	.440	.793	40.9000	1.4000		ARMENTER. NPB21,15-70	
2.879	.441	.794	40.9600	.2600		BUGG PR168,1466-68	
2.892	.448	.802	40.2000	1.5000		BERTAN. PR177,2036-69	
2.898	.451	.806	41.3000	1.7300		ARMENTER. NPB8,233-68	
2.919	.463	.819	40.6700	.3000		BUGG PR168,1466-68	
2.920	.463	.820	39.7000	1.3000		BERTAN. PR177,2036-69	
2.949	.479	.838	37.3000	1.5900		ARMENTER. NPB8,233-68	
2.951	.480	.839	39.8600	.3500		BUGG PR168,1466-68	
2.953	.481	.840	36.1000	1.7000		CHAMBE. PR125,1696-62	
2.969	.489	.850	40.6000	2.1000		BASTIEN PRL10,188-63	
2.974	.492	.853	38.1000	1.3400		ARMENTER. NPB8,233-68	
2.985	.498	.860	41.1300	.2900		BUGG PR168,1466-68	
3.008	.510	.874	41.3000	1.4100		ARMENTER. NPB8,233-68	
3.019	.516	.881	42.3600	.2600		BUGG PR168,1466-68	
3.041	.527	.894	42.7000	2.2000		CHAMBE. PR125,1696-62	
3.041	.527	.894	43.7000	1.7100		ARMENTER. NPB8,233-68	
3.049	.532	.899	43.4100	.2300		BUGG PR168,1466-68	
3.057	.536	.904	42.1000	1.5800		ARMENTER. NPB8,233-68	
3.077	.547	.916	43.2000	1.8000		ARMENTER. NPB8,233-68	
3.102	.560	.931	44.1000	1.8000		CHAMBE. PR125,1696-62	
3.108	.564	.935	42.4000	1.6100		ARMENTER. NPB8,233-68	
3.110	.564	.936	45.4600	.2800		BUGG PR168,1466-68	
3.140	.580	.954	42.9000	1.5700		ARMENTER. NPB8,233-68	
3.158	.590	.965	47.3300	.2600		BUGG PR168,1466-68	
3.165	.594	.969	47.1600	.8000		COCL PR1,1887-70	
3.167	.595	.970	43.2000	1.3200		ARMENTER. NPB8,233-68	
3.175	.599	.975	47.1900	.8000		CCCL PR1,1887-70	
3.183	.604	.980	47.1000	1.2000		CCCK PR123,320-61	
3.195	.610	.987	45.3000	2.1000		CHAMBE. PR125,1696-62	
3.202	.613	.991	49.7900	.2600		BUGG PR168,1466-68	
3.202	.613	.991	45.8000	1.8100		ARMENTER. NPB8,233-68	
3.251	.639	1.020	51.7000	.3900		BUGG PR168,1466-68	
3.254	.641	1.022	51.2700	.4200		COCL PR1,1887-70	
3.254	.641	1.022	47.7000	1.7200		ARMENTER. NPB8,233-68	
3.268	.648	1.030	48.4000	1.8000		CHAMBE. PR125,1696-62	
3.290	.660	1.043	52.1700	.3700		BUGG PR168,1466-68	
3.291	.661	1.044	51.9000	2.2700		ARMENTER. NPB8,233-68	
3.320	.676	1.061	50.3000	1.5800		ARMENTER. NPB8,233-68	
3.330	.682	1.067	49.4000	2.0000		CHAMBE. PR125,1696-62	
3.336	.685	1.070	49.3000	.3600		BUGG PR168,1466-68	
3.353	.694	1.080	50.5100	.2800		COCL PR1,1887-70	
3.353	.694	1.080	46.9000	2.0500		ARMENTER. NPB8,233-68	
3.375	.706	1.093	46.1300	.2700		BUGG PR168,1466-68	
3.387	.712	1.100	43.6000	1.6000		COCK PR123,320-61	
3.389	.713	1.101	44.5000	1.5000		CHAMBE. PR125,1696-62	
3.390	.714	1.102	43.5000	1.6100		ARMENTER. NPB8,233-68	
3.414	.727	1.116	44.1800	.2800		CCCL PR1,1887-70	
3.416	.727	1.117	40.9000	1.3900		ARMENTER. NPB8,233-68	
3.419	.729	1.119	42.2300	.2600		BUGG PR168,1466-68	
3.438	.739	1.130	43.7400	.2000		CCCL PR1,1887-70	

K-P

	S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 1								
TOTAL	3.445	.743	1.134	39.3000	1.5000		ARMENTER. NPB8,233-68	
(CONTINUATION)	3.462	.752	1.144	39.8000	.2800		BUGG PR168,1466-68	
	3.478	.760	1.153	40.5000	1.6500		ARMENTER. NPB8,233-68	
	3.506	.775	1.169	38.6700	.2600		BUGG PR168,1466-68	
	3.506	.775	1.169	39.1800	.2600		CCOL PR1,1887-70	
	3.514	.780	1.174	42.0000	1.7500		ARMENTER. NPB8,233-68	
	3.523	.784	1.179	39.0100	.1600		CCOL PR1,1887-70	
	3.530	.788	1.183	40.7000	1.4500		ARMENTER. NPB8,233-68	
	3.549	.798	1.194	36.9200	.2500		BUGG PR168,1466-68	
	3.592	.821	1.219	35.2100	.2500		BUGG PR168,1466-68	
	3.594	.822	1.220	35.5100	.1800		CCOL PR1,1887-70	
	3.604	.828	1.226	33.4000	2.1700		ARMENTER. NPB8,233-68	
	3.611	.832	1.230	35.4100	.1000		CCCL PR1,1887-70	
	3.611	.832	1.230	33.8000	.9000		CCOK PR123,320-61	
	3.636	.845	1.244	33.3900	.2200		BUGG PR168,1466-68	
	3.681	.869	1.270	32.5200	.1700		CCOL PR1,1887-70	
	3.688	.873	1.274	32.1100	.2300		BUGG PR168,1466-68	
	3.704	.881	1.283	32.5000	.0900		CCCL PR1,1887-70	
	3.744	.902	1.306	31.1700	.2200		BUGG PR168,1466-68	
	3.769	.916	1.320	31.0300	.1400		CCOL PR1,1887-70	
	3.778	.920	1.325	30.6000	.2000		BUGG PR168,1466-68	
	3.797	.931	1.336	31.1200	.0800		CCCL PR1,1887-70	
	3.822	.944	1.350	31.2000	.9000		CCOK PR123,320-61	
	3.857	.962	1.370	31.2700	.1100		CCOL PR1,1887-70	
	3.866	.967	1.375	30.9000	.1500		BUGG PR168,1466-68	
	3.882	.976	1.384	31.0900	.0800		CCCL PR1,1887-70	
	3.921	.996	1.406	31.6300	.1700		BUGG PR168,1466-68	
	3.970	1.023	1.434	31.8300	.0800		CCOL PR1,1887-70	
	3.984	1.030	1.442	32.2800	.1700		BUGG PR168,1466-68	
	4.052	1.066	1.480	32.5000	.8000		CCOK PR123,320-61	
	4.061	1.071	1.485	33.3500	.1700		BUGG PR168,1466-68	
	4.066	1.074	1.488	32.8300	.0800		CCOL PR1,1887-70	
	4.104	1.094	1.509	33.4700	.0800		CCOL PR1,1887-70	
	4.125	1.105	1.521	33.5300	.1600		BUGG PR168,1466-68	
	4.175	1.132	1.549	34.0000	.1000		CCOL PR1,1887-70	
	4.198	1.144	1.562	33.9700	.1600		BUGG PR168,1466-68	
	4.236	1.164	1.583	34.1700	.0800		CCCL PR1,1887-70	
	4.266	1.181	1.600	32.5000	.8000		CCOK PR123,320-61	
	4.291	1.194	1.614	34.4200	.1600		BUGG PR168,1466-68	
	4.333	1.216	1.637	34.0700	.0800		CCOL PR1,1887-70	
	4.379	1.241	1.663	34.1900	.1600		BUGG PR168,1466-68	
	4.423	1.264	1.687	33.8400	.0700		CCCL PR1,1887-70	
	4.464	1.286	1.710	33.6600	.1600		BUGG PR168,1466-68	
	4.500	1.305	1.730	32.5000	.6000		CCOK PR123,320-61	
	4.509	1.310	1.735	33.1900	.0700		CCOL PR1,1887-70	
	4.560	1.337	1.763	32.7700	.1600		BUGG PR168,1466-68	
	4.600	1.358	1.785	32.2600	.0700		CCOL PR1,1887-70	
	4.636	1.378	1.805	31.9200	.1600		BUGG PR168,1466-68	
	4.690	1.406	1.835	31.5300	.0700		CCOL PR1,1887-70	
	4.699	1.411	1.840	31.1900	.0700		CCOL PR1,1887-70	
	4.726	1.426	1.855	30.7200	.1600		BUGG PR168,1466-68	
	4.770	1.449	1.879	30.8500	.0700		CCOL PR1,1887-70	
	4.781	1.455	1.885	30.8100	.0700		CCOL PR1,1887-70	
	4.813	1.472	1.903	30.1800	.1600		BUGG PR168,1466-68	
	4.861	1.497	1.929	30.4900	.0700		CCOL PR1,1887-70	
	4.899	1.518	1.950	30.5000	.4000		CCOK PR123,320-61	
	4.904	1.521	1.953	30.4600	.1500		BUGG PR168,1466-68	
	4.963	1.552	1.985	30.1700	.0600		CCOL PR1,1887-70	
	4.999	1.571	2.005	30.3700	.1400		BUGG PR168,1466-68	
	5.054	1.600	2.035	29.9900	.0600		CCOL PR1,1887-70	
	5.085	1.617	2.052	29.8600	.1200		BUGG PR168,1466-68	
	5.136	1.644	2.080	29.8900	.0600		CCOL PR1,1887-70	
	5.180	1.667	2.104	29.7000	.1700		BUGG PR168,1466-68	
	5.216	1.687	2.124	29.8100	.0600		CCOL PR1,1887-70	
	5.280	1.721	2.159	29.8300	.1700		BUGG PR168,1466-68	
	5.289	1.726	2.164	29.7900	.0600		CCOL PR1,1887-70	
	5.366	1.767	2.206	29.8700	.0600		CCOL PR1,1887-70	
	5.368	1.768	2.207	30.0500	.1600		BUGG PR168,1466-68	
	5.429	1.800	2.240	29.7900	.0800		CCOL PR1,1887-70	
	5.447	1.810	2.250	29.7900	.1500		CCOL PR1,1887-70	
	5.460	1.817	2.257	29.4600	.1600		BUGG PR168,1466-68	
	5.540	1.860	2.301	29.6300	.0600		CCOL PR1,1887-70	
	5.553	1.866	2.308	29.3700	.1300		BUGG PR168,1466-68	
	5.630	1.908	2.350	29.4400	.0500		ABRAMS PR1,1917-70	
	5.632	1.908	2.351	29.3800	.1500		CCCL PR1,1887-70	
	5.641	1.913	2.356	28.8100	.1500		BUGG PR168,1466-68	
	5.707	1.949	2.392	29.0700	.0700		CCOL PR1,1887-70	
	5.722	1.956	2.400	29.1000	.0500		ABRAMS PR1,1917-70	
	5.730	1.960	2.404	28.8600	.1500		BUGG PR168,1466-68	
	5.764	1.979	2.423	28.8800	.0700		CCOL PR1,1887-70	
	5.814	2.005	2.450	28.8700	.0700		ABRAMS PR1,1917-70	
	5.845	2.022	2.467	28.5000	.1100		BUGG PR168,1466-68	
	5.869	2.035	2.480	26.9000	.5000		CCCK PR123,320-61	
	5.906	2.054	2.500	28.4600	.0600		ABRAMS PR1,1917-70	
	5.932	2.068	2.514	28.3700	.1000		BUGG PR168,1466-68	
	5.998	2.104	2.550	28.3000	.0600		ABRAMS PR1,1917-70	
	6.013	2.111	2.558	28.1300	.1100		BUGG PR168,1466-68	
	6.090	2.153	2.600	28.2100	.0600		ABRAMS PR1,1917-70	
	6.105	2.161	2.608	27.8800	.1100		BUGG PR168,1466-68	
	6.146	2.182	2.630	30.3000	1.2000		FICENEC PR175,1725-68	
	6.183	2.202	2.650	28.1000	.0600		ABRAMS PR1,1917-70	
	6.195	2.209	2.657	27.9600	.1000		BUGG PR168,1466-68	
	6.201	2.212	2.660	30.4000	1.0000		FICENEC PR175,1725-68	1
	6.219	2.221	2.670	27.4100	.8000		DIDDENS PR132,2721-63	
	6.275	2.251	2.700	28.0200	.0600		ABRAMS PR1,1917-70	
	6.275	2.251	2.700	30.9000	2.2000		FICENEC PR175,1725-68	
	6.367	2.300	2.750	27.8300	.0600		ABRAMS PR1,1917-70	
	6.460	2.349	2.800	27.7200	.0700		ABRAMS PR1,1917-70	
	6.552	2.399	2.850	27.7300	.0600		ABRAMS PR1,1917-70	
	6.607	2.428	2.880	26.6500	.9000		DIDDENS PR132,2721-63	
	6.644	2.448	2.900	27.5800	.0600		ABRAMS PR1,1917-70	
	6.737	2.497	2.950	27.5100	.0600		ABRAMS PR1,1917-70	
	6.774	2.517	2.970	25.3000	.4000		CCOK PR123,320-61	
	6.792	2.527	2.980	27.7600	.8000		DIDDENS PR132,2721-63	
	6.829	2.547	3.000	24.9000	2.0000		MERRILL NPB18,403-70	

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA

********** K-P **********

		S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 1									
TOTAL		6.829	2.547	3.000	27.4200	.0600		ABRAMS PR1,1917-70	
	(CONTINUATION)	6.922	2.596	3.050	27.2000	.0600		ABRAMS PR1,1917-70	
		6.996	2.635	3.090	26.2500	.8500		DIDDENS PR132,2721-63	
		7.015	2.645	3.100	27.0000	.0600		ABRAMS PR1,1917-70	
		7.107	2.695	3.150	26.9800	.0600		ABRAMS PR1,1917-70	
		7.182	2.734	3.190	26.7500	.8000		DIDDENS PR132,2721-63	
		7.200	2.744	3.200	26.7800	.0700		ABRAMS PR1,1917-70	
		7.293	2.793	3.250	26.7000	.0700		ABRAMS PR1,1917-70	
		7.386	2.843	3.300	26.7300	.0600		ABRAMS PR1,1917-70	
		7.386	2.843	3.300	27.0000	.7000		DIDDENS PR132,2721-63	
		7.757	3.041	3.500	27.1500	.7000		DIDDENS PR132,2721-63	
		8.147	3.249	3.710	26.9000	.7000		DIDDENS PR132,2721-63	
		8.538	3.457	3.920	25.9500	.7500		DIDDENS PR132,2721-63	
		8.650	3.517	3.980	25.4000	.7000		CCCK PR123,320-61	
		8.687	3.537	4.000	28.2000	1.9000		BAKER PR129,2285-63	
		8.929	3.666	4.130	25.1400	.6000		DIDDENS PR132,2721-63	
		8.967	3.685	4.150	29.6000	3.1000		VONDARDEL,484,ROCH60	
		9.321	3.874	4.340	25.8400	.6500		DIDDENS PR132,2721-63	
		10.104	4.292	4.760	24.7400	.7000		DIDDENS PR132,2721-63	
		10.366	4.431	4.900	26.7000	1.4000		VONDARDEL,484,ROCH60	
		10.889	4.710	5.180	24.0300	.7000		DIDDENS PR132,2721-63	
		11.487	5.028	5.500	24.3000	.8000		BAKER PR129,2285-63	
		12.421	5.526	6.000	24.0000	.3000		GALBR.PR138B,913-65	
		14.292	6.524	7.000	25.0000	.5000		BAKER PR129,2285-63	
		15.978	7.422	7.900	24.3000	1.4000		VONDARDEL,484.ROCH60	
		16.165	7.521	8.000	23.6000	.2000		GALBR.PR138B,913-65	
		17.101	8.021	8.500	24.6000	.8000		BAKER PR129,2285-63	
		19.912	9.518	10.000	22.5000	.2000		GALBR.PR138B,913-65	
		19.912	9.518	10.000	23.2000	.7000		BAKER PR129,2285-63	
		20.100	9.618	10.100	22.5000	.2000		BEUPRE,NPB30,381-71	
		22.724	11.017	11.500	23.3000	.8000		BAKER PR129,2285-63	
		23.661	11.516	12.000	22.9000	.7000		BAKER PR129,2285-63	
		23.661	11.516	12.000	21.6000	.2000		GALBR.PR138B,913-65	
		26.287	12.915	13.400	21.5000	.7000		BAKER PR129,2285-63	
		27.412	13.515	14.000	21.5000	.2000		GALBR.PR138B,913-65	
		28.349	14.015	14.500	21.6000	.8000		BAKER PR129,2285-63	
		30.788	15.314	15.800	21.9000	.8000		BAKER PR129,2285-63	
		31.163	15.514	16.000	21.3000	.4000		GALBR.PR138B,913-65	
		33.976	17.013	17.500	21.9000	.8000		BAKER PR129,2285-63	
		34.914	17.513	18.000	21.0000	.8000		GALBR.PR138B,913-65	
		36.978	18.613	19.100	21.6000	1.7000		BAKER PR129,2285-63	
		38.666	19.512	20.000	21.2000	.6000		ALLABY PL30B,500-69	
		38.666	19.512	20.000	22.4000	4.6000		GALBR.PR138B,913-65	
		40.542	20.512	21.000	21.0900	.1000		DENISOV,PL36B,528-71	S4
		44.294	22.511	23.000	20.8900	.0900		DENISOV,PL36B,528-71	S4
		48.046	24.511	25.000	20.8100	.0800		DENISOV,PL36B,528-71	S4
		48.046	24.511	25.000	20.7000	.4000		ALLABY PL30B,500-69	
		52.737	27.011	27.500	20.7200	.0800		DENISOV,PL36B,528-71	S4
		57.427	29.510	30.000	21.3000	.3000		ALLABY PL30B,500-69	
		60.242	31.010	31.500	20.5000	.0900		DENISOV,PL36B,528-71	S4
		63.994	33.010	33.500	20.5500	.0800		DENISOV,PL36B,528-71	S4
		66.809	34.510	35.000	20.8000	.3000		ALLABY PL30B,500-69	
		67.747	35.010	35.500	20.4300	.0800		DENISOV,PL36B,528-71	S4
		71.499	37.009	37.500	20.3900	.0800		DENISOV,PL36B,528-71	S4
		76.190	39.509	40.000	20.4900	.0800		DENISOV,PL36B,528-71	S4
		76.190	39.509	40.000	20.9000	.3000		ALLABY PL30B,500-69	
		80.881	42.009	42.500	20.3500	.0800		DENISOV,PL36B,528-71	S4
		85.572	44.509	45.000	20.4500	.0800		DENISOV,PL36B,528-71	S4
		85.572	44.509	45.000	20.6000	.3000		ALLABY PL30B,500-69	
		90.263	47.009	47.500	20.4500	.0800		DENISOV,PL36B,528-71	S4
		94.954	49.509	50.000	20.4000	.0800		DENISOV,PL36B,528-71	S4
		94.954	49.509	50.000	21.0000	.4000		ALLABY PL30B,500-69	
		99.645	52.009	52.500	20.3200	.1000		DENISOV,PL36B,528-71	S4
		104.337	54.508	55.000	20.2300	.1600		DENISOV,PL36B,528-71	S4
		104.337	54.508	55.000	21.5000	.6000		ALLABY PL30B,500-69	
	THRESHOLD	2.05	0.00	0.00				275 DATA POINTS LISTED	

FIT OF SIGMA AGAINST PLAB GEV/C

51 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .38
K = 26.28 +- .41 N = -.07 +- .00

..... REACTION 2									
K-P		2.053	.010	.030	313.5000	672.6000	127.1000	THOMAS,NPB13,385-69	
		2.056	.010	.050	103.6000	222.2000	42.0000	THOMAS,NPB13,385-69	
		2.060	.010	.070	44.8000	96.1000	18.2000	THOMAS,NPB13,385-69	
		2.066	.010	.090	71.5000	64.2000	23.0000	THOMAS,NPB13,385-69	
		2.074	.012	.110	92.8000	51.3000	24.2000	THOMAS,NPB13,385-69	
		2.074	.012	.110	87.2900	10.2300		SAKITT PR139B,719-65	1
		2.074	.013	.112	139.6000	ERROR	NOT GIVEN	HUMPHR. PR127,1305-62	1
		2.082	.017	.130	40.4000	29.5000	12.0000	THOMAS,NPB13,385-69	
		2.082	.017	.130	79.2200	7.6300		SAKITT PR139B,719-65	1
		2.086	.019	.138	90.0000	ERROR	NOT GIVEN	HUMPHR. PR127,1305-62	1
		2.093	.022	.150	41.4000	22.9000	10.9000	THOMAS,NPB13,385-69	
		2.093	.022	.150	69.6100	6.0100		SAKITT PR139B,719-65	1
		2.099	.026	.162	101.3000	ERROR	NOT GIVEN	HUMPHR. PR127,1305-62	1
		2.104	.028	.170	32.8000	24.0000	9.8000	THOMAS,NPB13,385-69	
		2.104	.028	.170	75.7600	5.3600		SAKITT PR139B,719-65	1
		2.116	.035	.188	71.3000	ERROR	NOT GIVEN	HUMPHR. PR127,1305-62	1
		2.117	.035	.190	59.0900	4.2000		SAKITT PR139B,719-65	1
		2.117	.035	.190	53.3000	26.5000	13.3000	THOMAS,NPB13,385-69	
		2.131	.043	.210	60.4900	4.1000		SAKITT PR139B,719-65	1
		2.131	.043	.210	53.3000	29.4000	14.0000	THOMAS,NPB13,385-69	
		2.133	.044	.212	47.4000	ERROR	NOT GIVEN	HUMPHR. PR127,1305-62	1
		2.146	.051	.230	62.9000	46.0000	18.7000	THOMAS,NPB13,385-69	
		2.146	.051	.230	55.6900	4.0600		SAKITT PR139B,719-65	1
		2.153	.054	.238	39.2000	ERROR	NOT GIVEN	HUMPHR. PR127,1305-62	1
		2.163	.060	.250	51.5000	4.2200		SAKITT PR139B,719-65	1
		2.173	.065	.262	44.2000	ERROR	NOT GIVEN	HUMPHR. PR127,1305-62	1
		2.180	.069	.270	58.0600	5.2000		SAKITT PR139B,719-65	1

FOOTNOTES

S4=SYSTEMATIC ERROR IS 0.4 PER CENT
1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

	S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 2								
K-P	2.199	.079	.290	38.2700	5.6800		SAKITT PR139B,719-65	1
(CONTINUATION)	2.202	.080	.293	47.8000	4.1000		FERRO-LUZ. PRL8,28-62	
	2.208	.084	.300	44.5000	6.4000		NORDIN PR123,2168-61	
	2.260	.111	.350	33.5000	3.5000		FERRO-LUZ. PRL8,28-62	
	2.305	.135	.390	34.7000	3.2000		FERRO-LUZ. PRL8,28-62	
	2.317	.142	.400	38.9000	4.7000		NORDIN PR123,2168-61	
	2.358	.164	.434	32.8000	3.9000		FERRO-LUZ. PRL8,28-62	
	2.360	.165	.436	25.8000	2.0000		ARMENTER. NPB21,15-70	
	2.384	.178	.455	23.8000	1.7000		ARMENTER. NPB21,15-70	
	2.410	.191	.475	23.1000	1.4000		ARMENTER. NPB21,15-70	
	2.436	.205	.495	21.5000	1.3000		ARMENTER. NPB21,15-70	
	2.460	.218	.513	27.6000	3.7000		FERRO-LUZ. PRL8,28-62	
	2.462	.219	.514	21.7000	1.4000		ARMENTER. NPB21,15-70	
	2.489	.234	.534	19.3000	1.3000		ARMENTER. NPB21,15-70	
	2.517	.248	.554	19.1000	1.2000		ARMENTER. NPB21,15-70	
	2.544	.263	.573	17.5000	1.1000		ARMENTER. NPB21,15-70	
	2.578	.281	.597	17.7000	1.1000		ARMENTER. NPB21,15-70	
	2.607	.296	.617	18.6000	1.1000		ARMENTER. NPB21,15-70	
	2.612	.299	.620	16.0000	1.0000		BASTIEN PRL10,188-63	
	2.637	.312	.637	16.0000	1.0000		ARMENTER. NPB21,15-70	
	2.668	.329	.658	16.4000	1.0000		ARMENTER. NPB21,15-70	
	2.671	.330	.660	12.1000	2.0000		HOLLEY PR154,1273-67	
	2.697	.344	.677	15.6000	1.0000		ARMENTER. NPB21,15-70	
	2.730	.362	.699	15.2000	1.0000		ARMENTER. NPB21,15-70	
	2.732	.363	.700	14.2000	2.1000		HOLLEY PR154,1273-67	
	2.744	.369	.708	13.5000	.9000		BERTAN. PR177,2036-69	
	2.761	.378	.719	14.2000	1.0000		ARMENTER. NPB21,15-70	
	2.770	.383	.725	11.5000	.8000		BERTAN. PR177,2036-69	
	2.794	.396	.740	15.9000	1.1000		ARMENTER. NPB21,15-70	
	2.794	.396	.740	14.0000	2.1000		HOLLEY PR154,1273-67	
	2.795	.397	.741	11.6000	.7000		BERTAN. PR177,2036-69	
	2.825	.413	.760	16.7000	1.0000		BASTIEN PRL10,188-63	
	2.827	.413	.761	17.3000	1.1000		ARMENTER. NPB21,15-70	
	2.838	.419	.768	15.2000	1.0000		BERTAN. PR177,2036-69	
	2.845	.423	.773	18.6000	1.6000		ARMENTER. NPB21,15-70	
	2.852	.427	.777	18.3000	.8000		ARMENTER. NPB8,233-68	
	2.852	.427	.777	16.0300	.9400		GELFAND EFINS66,81+PC	
	2.857	.429	.780	17.9000	2.6000		HOLLEY PR154,1273-67	
	2.877	.440	.793	20.5000	1.2000		ARMENTER. NPB21,15-70	
	2.892	.448	.802	19.3000	1.3000		BERTAN. PR177,2036-69	
	2.898	.451	.806	20.0000	1.0100		ARMENTER. NPB8,233-68	
	2.920	.463	.820	18.7000	.7000		SODICKS.PR133B,757-64	
	2.920	.463	.820	19.3000	2.8000		HOLLEY PR154,1273-67	
	2.949	.479	.838	19.8000	.9500		ARMENTER. NPB8,233-68	
	2.969	.489	.850	22.4000	2.0000		BASTIEN PRL10,188-63	
	2.974	.492	.853	19.1000	.8000		ARMENTER. NPB8,233-68	
	2.985	.498	.860	19.5000	2.8000		HOLLEY PR154,1273-67	
	3.008	.510	.874	20.1000	.7900		ARMENTER. NPB8,233-68	
	3.041	.527	.894	21.6000	.8800		ARMENTER. NPB8,233-68	
	3.051	.533	.900	21.5000	3.2000		HOLLEY PR154,1273-67	
	3.057	.536	.904	20.9000	.8600		ARMENTER. NPB8,233-68	
	3.077	.547	.916	20.4000	.9600		ARMENTER. NPB8,233-68	
	3.108	.564	.935	20.1000	.8000		ARMENTER. NPB8,233-68	
	3.117	.568	.940	21.8000	3.2000		HOLLEY PR154,1273-67	
	3.140	.580	.954	20.7000	.8600		ARMENTER. NPB8,233-68	
	3.167	.595	.970	20.4000	.8400		ARMENTER. NPB8,233-68	
	3.183	.604	.980	22.4000	3.3000		HOLLEY PR154,1273-67	
	3.202	.613	.991	21.4000	.8500		ARMENTER. NPB8,233-68	
	3.251	.639	1.020	20.8000	3.1000		HOLLEY PR154,1273-67	
	3.254	.641	1.022	22.1000	.9800		ARMENTER. NPB8,233-68	
	3.285	.657	1.040	23.3000	1.0000		SODICKS.PR133B,757-64	
	3.291	.661	1.044	21.5000	.8900		ARMENTER. NPB8,233-68	
	3.319	.676	1.060	21.2000	3.1000		HOLLEY PR154,1273-67	
	3.320	.676	1.061	20.6000	.8000		ARMENTER. NPB8,233-68	
	3.353	.694	1.080	18.7000	.8300		ARMENTER. NPB8,233-68	
	3.387	.712	1.100	18.3000	2.7000		HOLLEY PR154,1273-67	
	3.390	.714	1.102	18.6000	.8000		ARMENTER. NPB8,233-68	
	3.416	.727	1.117	17.6000	.7400		ARMENTER. NPB8,233-68	
	3.445	.743	1.134	17.0000	.8200		ARMENTER. NPB8,233-68	
	3.455	.749	1.140	17.0000	2.5000		HOLLEY PR154,1273-67	
	3.473	.758	1.150	18.3000	1.5000		GRAZIA. PR128,1868-62	
	3.473	.758	1.150	17.3000	1.1000		SODICKS.PR133B,757-64	
	3.478	.760	1.153	17.2000	.7600		ARMENTER. NPB8,233-68	
	3.514	.780	1.174	16.5000	.7900		ARMENTER. NPB8,233-68	
	3.525	.785	1.180	16.8000	2.5000		HOLLEY PR154,1273-67	
	3.530	.788	1.183	15.9000	.7500		ARMENTER. NPB8,233-68	
	3.594	.822	1.220	15.7000	2.3000		HOLLEY PR154,1273-67	
	3.604	.828	1.226	11.8000	.8300		ARMENTER. NPB8,233-68	
	3.664	.859	1.260	15.2000	.7000		SODICKS.PR133B,757-64	
	3.664	.859	1.260	14.0000	2.1000		HOLLEY PR154,1273-67	
	3.669	.862	1.263	10.8700	.5500		LITCHFIE,NPB30,125-71	
	3.734	.897	1.300	12.0000	1.8000		HOLLEY PR154,1273-67	
	3.762	.912	1.316	11.2000	.5300		LITCHFIE,NPB30,125-71	
	3.786	.925	1.330	9.7400	.3000		TROWER PR170,1207-68	
	3.804	.934	1.340	14.4000	2.2000		HOLLEY PR154,1273-67	
	3.853	.961	1.368	10.3000	.5100		LITCHFIE,NPB30,125-71	
	3.875	.972	1.380	16.6000	2.7000		HOLLEY PR154,1273-67	
	3.880	.975	1.383	10.5000	.6000		DAUM NPB6,273-68	
	3.936	1.005	1.415	8.8300	.4100		LITCHFIE,NPB30,125-71	
	3.968	1.022	1.433	8.6000	.6000		DAUM NPB6,273-68	
	4.025	1.052	1.465	9.1100	.4200		LITCHFIE,NPB30,125-71	
	4.057	1.069	1.483	8.3000	.6000		DAUM NPB6,273-68	
	4.111	1.098	1.513	7.7000	.3000		LITCHFIE,NPB30,125-71	
	4.148	1.118	1.534	8.8000	.6000		DAUM NPB6,273-68	
	4.168	1.128	1.545	8.0600	.2700		LITCHFIE,NPB30,125-71	
	4.238	1.165	1.584	8.7000	.6000		DAUM NPB6,273-68	
	4.277	1.186	1.606	8.8600	.3300		LITCHFIE,NPB30,125-71	
	4.327	1.213	1.634	9.2000	.5000		DAUM NPB6,273-68	
	4.360	1.230	1.652	8.4000	.2900		LITCHFIE,NPB30,125-71	
	4.417	1.261	1.684	8.9000	.6000		DAUM NPB6,273-68	
	4.455	1.281	1.705	9.0800	.3400		LITCHFIE,NPB30,125-71	
	4.507	1.309	1.734	9.5000	.8000		DAUM NPB6,273-68	
	4.516	1.314	1.739	8.5100	.3500		LITCHFIE,NPB30,125-71	
	4.598	1.357	1.784	9.0000	.6000		DAUM NPB6,273-68	
	4.627	1.373	1.800	8.1300	.3100		LITCHFIE,NPB30,125-71	

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

		S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 2									
K-P		4.705	1.414	1.843	7.8600	.2900		LITCHFIE,NPB30,125-71	
(CONTINUATION)		4.779	1.454	1.884	9.0000	.5000		DAUM NPB6,273-68	
		4.870	1.502	1.934	7.9000	.6000		DAUM NPB6,273-68	
		4.961	1.551	1.984	7.8000	.6000		DAUM NPB6,273-68	
		4.990	1.566	2.000	7.4600	.3000		CRITT.PRL12,429-64	
		4.990	1.566	2.000	7.1800	.2100		DICKENSON PL23,505-66	
		5.052	1.599	2.034	7.1000	.7000		DAUM NPB6,273-68	
		5.143	1.648	2.084	7.4000	.7000		DAUM NPB6,273-68	
		5.234	1.697	2.134	7.1000	.7000		DAUM NPB6,273-68	
		5.309	1.737	2.175	7.9000	.6000		DAUM NPB6,273-68	
		5.429	1.800	2.240	6.1600	.7000		DICKENSON PL23,505-66	
		5.509	1.843	2.284	7.3000	.5000		DAUM NPB6,273-68	
		5.584	1.883	2.325	6.5000	.6000		DAUM NPB6,273-68	
		5.674	1.931	2.374	6.6000	.7000		DAUM NPB6,273-68	
		6.201	2.212	2.660	6.0400	.3000		FICENEC PR175,1725-68	1
		6.792	2.527	2.980	4.9500	.2200		FOCACCI PL19,441-65	
		6.829	2.547	3.000	5.2800	.2300		BADIER CEA R3037-66	
		6.829	2.547	3.000	4.9500	.2200		MERRILL,NPB18,403-70	
		6.829	2.547	3.000	5.3200	.2300		BADIER CEA N532-65	
		7.683	3.001	3.460	4.9400	.3900		GORDON PL21,117-66	
		7.757	3.041	3.500	4.9000	.4000		MUSGRAVE RPP/H/29-67	
		8.873	3.636	4.100	4.3000	.4000		MOTT PL23,171-66	
		9.806	4.133	4.600	4.2000	.3000		SCHROED.PR176,1648-68	
		11.487	5.028	5.500	4.1000	.3000		MOTT PL23,171-66	
		14.667	6.723	7.200	4.2300	.8500		FOLEY PRL11,503-63	
		18.038	8.520	9.000	3.9500	.7800		FOLEY PRL11,503-63	
		19.912	9.518	10.000	3.1500	.0800		BARTSCH,NPB29,398-71	
		23.436	11.396	11.880	3.2000	.9000		FOLEY PRL15,45-65	*
		27.881	13.765	14.250	2.8600	.0900		MILLER,PL34B,230-71	
		30.994	15.424	15.910	2.7000	.9000		FOLEY PRL15,45-65	*
	THRESHOLD	2.05	0.00	0.00				162 DATA POINTS LISTED	

FIT OF SIGMA AGAINST PLAB GEV/C

9 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. =1.00
K = 7.17 +- 1.65 N = -.35 +- .10

..... REACTION 3									
PK- (BACKWARD SCATTERING)		8.873	3.636	4.100	4.3000	.4000		MOTT,NWTUN,67	
		11.487	5.028	5.500	4.1000	.4000		MOTT,NWTUN,67	
	THRESHOLD	2.05	0.00	0.00				2 DATA POINTS LISTED	
..... REACTION 4									
0 PRONGS		19.912	9.518	10.000	.7600	.1000		ABCLV AMSTERDAM-71	
	THRESHOLD	2.05	0.00	0.00					
..... REACTION 5									
0 PRONGS,V0		8.873	3.636	4.100	.9850	ERROR NOT GIVEN		HODGE BAPS12,505-67	
		11.487	5.028	5.500	.5000	ERROR NOT GIVEN		HODGE BAPS12,505-67	
	THRESHOLD	3.72	.89	1.29				2 DATA POINTS LISTED	
..... REACTION 6									
0 PRONGS,2V0		24.786	12.116	12.600	.9000	MICROB ERROR NOT GIVEN		LACH BAPS12,540-67	
	THRESHOLD	4.45	1.28	1.70					
..... REACTION 7									
0 PRONGS,3V0		24.786	12.116	12.600	.3000	MICROB ERROR NOT GIVEN		LACH BAPS12,540-67	
	THRESHOLD	4.45	1.28	1.70					
..... REACTION 8									
0 PRONGS,K0		20.100	9.618	10.100	.6000	.0600		BEAUPRE NPB30,381-71	
	THRESHOLD	3.71	.88	1.29					
..... REACTION 9									
2 PRONGS		6.201	2.212	2.660	16.8000	.6000		FICENEC PL25B,369-67	1
		19.912	9.518	10.000	10.3800	.2500		ABCLV AMSTERDAM-71	
	THRESHOLD	2.05	.00	.04				2 DATA POINTS LISTED	
..... REACTION 10									
2 PRONGS,Z0		6.201	2.212	2.660	2.1800	.5500		FICENEC PR175,1725-68	1
	THRESHOLD	2.93	.47	.83					
..... REACTION 11									
2 PRONGS,2V0		24.786	12.116	12.600	.9000	MICROB ERROR NOT GIVEN		LACH BAPS12,540-67	
	THRESHOLD	5.04	1.60	2.03					
..... REACTION 12									
2 PRONGS,3V0		24.786	12.116	12.600	.3000	MICROB ERROR NOT GIVEN		LACH BAPS12,540-67	
	THRESHOLD	5.71	1.95	2.39					
..... REACTION 13									
2 PRONGS,K0		3.594	.822	1.220	1.3300	.1000		HUWE PR181,1824-69	
		3.769	.916	1.320	1.3300	.1000		HUWE PR181,1824-69	
		3.945	1.010	1.420	1.6800	.1400		HUWE PR181,1824-69	
		4.105	1.095	1.510	2.0000	.1100		HUWE PR181,1824-69	
		4.266	1.181	1.600	1.5800	.1300		HUWE PR181,1824-69	
		4.428	1.267	1.690	1.8700	.1300		HUWE PR181,1824-69	
		20.100	9.618	10.100	3.6600	.2400		BEAUPRE NPB30,381-71	
	THRESHOLD	3.71	.89	1.29				7 DATA POINTS LISTED	
..... REACTION 14									
2 PRONGS INELASTIC		4.990	1.566	2.000	12.4900	.3600		DICKENSON PL23,505-66	
		5.429	1.800	2.240	12.0000	1.2000		DICKENSON PL23,505-66	
	THRESHOLD	2.47	.22	.52				2 DATA POINTS LISTED	

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA
*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS

K-P

		S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 15											
4 PRONGS		19.912	9.518	10.000		8.4700		.1000		ABCLV AMSTERDAM-71	
		24.786	12.116	12.600		5.6000		.2000		LUDLAM BAPS12,540-67	
	THRESHOLD	2.93	.47	.83						2 DATA POINTS LISTED	
..... REACTION 16											
4 PRONGS,VO		4.034	1.057	1.470		.0500		.0200		CCOPER,298,CERN62	
		24.786	12.116	12.600	U	1.0000	MICROB			LACH BAPS12,540-67	
	THRESHOLD	4.88	1.51	1.94						2 DATA POINTS LISTED	
..... REACTION 17											
4 PRONGS,2VO		24.786	12.116	12.600		.3000	MICROB	ERROR NOT GIVEN		LACH BAPS12,540-67	
	THRESHOLD	6.37	2.30	2.75							
..... REACTION 18											
4 PRONGS,KO		20.100	9.618	10.100		2.7900		.1800		BEAUPRE NP830,381-71	
	THRESHOLD	4.87	1.50	1.93							
..... REACTION 19											
6 PRONGS		19.912	9.518	10.000		2.6900		.0500		ABCLV AMSTERDAM-71	
	THRESHOLD	2.05	0.00	0.00							
..... REACTION 20											
6 PRONGS,KO		20.100	9.618	10.100		.5000		.0400		BEAUPRE NP830,381-71	
	THRESHOLD	6.19	2.20	2.65							
..... REACTION 21											
8 PRONGS		19.912	9.518	10.000		.2860		.0250		ABCLV AMSTERDAM-71	
	THRESHOLD	2.05	0.00	0.00							
..... REACTION 22											
8 PRONGS,KO		20.100	9.618	10.100		.0300		.0100		BEAUPRE NP830,381-71	
	THRESHOLD	7.66	2.99	3.45							
..... REACTION 23											
INELASTIC		2.574	.279	.594		14.5000		1.0000		BERTAN. PR177,2036-69	
		2.683	.337	.668		14.5000		1.0000		BERTAN. PR177,2036-69	
		2.744	.369	.708		16.5000		1.2000		BERTAN. PR177,2036-69	
		2.770	.383	.725		18.9000		1.0000		BERTAN. PR177,2036-69	
		2.795	.397	.741		18.2000		1.0000		BERTAN. PR177,2036-69	
		2.838	.419	.768		20.5000		1.4000		BERTAN. PR177,2036-69	
		2.892	.448	.802		16.2000		1.0000		BERTAN. PR177,2036-69	
		2.920	.463	.820		16.6000		1.0000		BERTAN. PR177,2036-69	
		20.100	9.618	10.100		19.4000		.2000		BEAUPRE NP830,381-71	
	THRESHOLD	2.47	.22	.52						9 DATA POINTS LISTED	
..... REACTION 24											
PPK-AP		20.100	9.618	10.100	U	2.5000	MICROB	2.0000		ADERHOLZ NPB14,255-69	
		24.786	12.116	12.600	U	2.5000	MICROB			LACH BAPS12,540-67	
	THRESHOLD	10.94	4.74	5.21						2 DATA POINTS LISTED	
..... REACTION 25											
PPKOPI-AP		24.786	12.116	12.600	U	3.4000	MICROB			LACH BAPS12,540-67	
	THRESHOLD	11.89	5.24	5.72							
..... REACTION 26											
PK+K-K-		19.912	9.518	10.000		.0300		.0040		ADERHOLZ,NPB14,255-69	
		20.100	9.618	10.100		.0300		.0040		ADERHOLZ NPB14,255-69	
	THRESHOLD	5.86	2.03	2.47						2 DATA POINTS LISTED	
..... REACTION 27											
PK-PI+PI-		3.594	.822	1.220		.0370		.0050		WOJCIC. PR135B,495-64	
		3.604	.828	1.226	U	.1000				ARMENTER. NPB8,233-68	
		3.999	1.038	1.450		.1000		.0100		ALMEIDA PL9,204-64	
		4.105	1.095	1.510		.1200		.0100			
		4.266	1.181	1.600		.1800		.0200			
		4.446	1.276	1.700		.3100		.0200			
		4.627	1.373	1.800		.4300		.0300		COLT. PR153,1403-67PC	
		4.808	1.469	1.900		.5800		.0400		SMITH UCLA(THESIS)	
		4.990	1.566	2.000		.6270		.0200		DAUBER PL24B,525-67	
		5.429	1.800	2.240		.4760		.0580		LONDON PR143,1034-66	
		6.829	2.547	3.000		.9500		.1000		COLTON NP B17,117-70	
		6.829	2.547	3.000		.9500		.1000		MERRILL,NPB18,403-70	
		7.757	3.041	3.500		1.3600		.1400		MUSGRAVE RPP/H/29-67	
		10.552	4.531	5.000		.7500		ERROR NOT GIVEN		URVATER BAPS12,540-67	
		11.487	5.028	5.500		1.0700		.0200		PARK PRL20,171-68	
		12.421	5.526	6.000		.7900		.1000		COLLEY NC59A,519-69	
		20.100	9.618	10.100		.8830		.0220		ADERHOLZ NPB14,255-69	
		24.786	12.116	12.600		.7000		.0500		ANDREWS PRL22,731-69	
	THRESHOLD	2.93	.47	.83						18 DATA POINTS LISTED	
..... REACTION 28											
PK-PI+PI-PIO		6.829	2.547	3.000		.4500		.0800		MERRILL,NPB18,403-70	
		9.806	4.133	4.600		.7600		.0900		JUHALA PR184,1461-69	
		10.179	4.332	4.800		.8300		.1200		JUHALA PR184,1461-69	1
		10.552	4.531	5.000		.9300		.1200		JUHALA PR184,1461-69	
		20.100	9.618	10.100		.8200		.0200		ABCLV 68	
		24.786	12.116	12.600		.7800		.2000		LACH HEID 67	
	THRESHOLD	3.43	.73	1.13						6 DATA POINTS LISTED	

FIT OF SIGMA AGAINST PLAB GEV/C

5 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .95

K = .85 +- .40 N = -.02 +- .21

FOOTNOTES

U=UPPER LIMIT

1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

		S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 29										
PK-PIO		2.489	.234	.534	0.0000	MICROB	10.0000		ARMENTER. NPB21,15-70	$
		2.517	.248	.554	.0100		.0100		ARMENTER. NPB21,15-70	
		2.544	.263	.573	0.0000	MICROB	10.0000		ARMENTER. NPB21,15-70	$
		2.578	.281	.597	0.0000	MICROB	20.0000		ARMENTER. NPB21,15-70	$
		2.607	.296	.617	.0200		.0200		ARMENTER. NPB21,15-70	
		2.612	.299	.620	0.0000	MICROB	30.0000		BASTIEN PRL10,188-63	$
		2.637	.312	.637	.0300		.0200		ARMENTER. NPB21,15-70	
		2.668	.329	.658	.0300		.0200		ARMENTER. NPB21,15-70	
		2.697	.344	.677	.0600		.0300		ARMENTER. NPB21,15-70	
		2.730	.362	.699	.0200		.0200		ARMENTER. NPB21,15-70	
		2.761	.378	.719	.1100		.0600		ARMENTER. NPB21,15-70	
		2.794	.396	.740	.1300		.0500		ARMENTER. NPB21,15-70	
		2.825	.413	.760	.1500		.1000		BASTIEN PRL1C,188-63	
		2.827	.413	.761	.2400		.0800		ARMENTER. NPB21,15-70	
		2.845	.423	.773	.3000		.0600		ARMENTER. NPB21,15-70	
		2.852	.427	.777	.2600		.0500		CONFORTO NPB8,265-68	
		2.852	.427	.777	.2800		.0500		BURKHARD,NPB14,106-70	
		2.852	.427	.777	.2700		.0500		ARMENTER. NPB8,233-68	
		2.877	.440	.793	.3500		.0700		ARMENTER. NPB21,15-70	
		2.898	.451	.806	.3400		.0800		CONFORTO NPB8,265-68	
		2.898	.451	.806	.3600		.0900		ARMENTER. NPB8,233-68	
		2.898	.451	.806	.3400		.0800		BURKHARD,NPB14,106-70	
		2.949	.479	.838	.4300		.0900		CONFORTO NPB8,265-68	
		2.949	.479	.838	.4400		.0800		ARMENTER. NPB8,233-68	
		2.949	.479	.838	.4300		.0900		BURKHARD,NPB14,106-70	
		2.969	.489	.850	.3000		.1000		BASTIEN PRL10,188-63	
		2.974	.492	.853	.6100		.0900		CONFORTO NPB8,265-68	
		2.974	.492	.853	.5600		.0900		BURKHARD,NPB14,106-70	
		2.974	.492	.853	.6200		.0800		ARMENTER. NPB8,233-68	
		3.008	.510	.874	.6100		.0800		CONFORTO NPB8,265-68	
		3.008	.510	.874	.6400		.0800		BURKHARD,NPB14,106-70	
		3.008	.510	.874	.6400		.0800		ARMENTER. NPB8,233-68	
		3.041	.527	.894	.5900		.0800		CONFORTO NPB8,265-68	
		3.041	.527	.894	.5800		.0800		BURKHARD,NPB14,106-70	
		3.041	.527	.894	.6000		.0800		ARMENTER. NPB8,233-68	
		3.057	.536	.904	.8400		.0900		BURKHARD,NPB14,106-70	
		3.057	.536	.904	.7900		.0900		ARMENTER. NPB8,233-68	
		3.057	.536	.904	.7800		.0900		CONFORTO NPB8,265-68	
		3.077	.547	.916	.7500		.1200		CONFORTO NPB8,265-68	
		3.077	.547	.916	.7600		.1200		BURKHARD,NPB14,106-70	
		3.077	.547	.916	.7500		.1200		ARMENTER. NPB8,233-68	
		3.108	.564	.935	.9400		.1000		ARMENTER. NPB8,233-68	
		3.108	.564	.935	.8100		.0900		BURKHARD,NPB14,106-70	
		3.108	.564	.935	.8900		.0900		CONFORTO NPB8,265-68	
		3.140	.580	.954	.8100		.0900		CONFORTO NPB8,265-68	
		3.140	.580	.954	.8200		.0900		BURKHARD,NPB14,106-70	
		3.140	.580	.954	.8300		.0900		ARMENTER. NPB8,233-68	
		3.167	.595	.970	.9300		.1000		ARMENTER. NPB8,233-68	
		3.167	.595	.970	.7600		.0900		BURKHARD,NPB14,106-70	
		3.167	.595	.970	.9400		.0900		CONFORTO NPB8,265-68	
		3.202	.613	.991	.9700		.0800		CONFORTO NPB8,265-68	
		3.202	.613	.991	.9900		.1000		ARMENTER. NPB8,233-68	
		3.202	.613	.991	.9000		.0800		BURKHARD,NPB14,106-70	
		3.254	.641	1.022	1.0300		.1100		BURKHARD,NPB14,106-70	
		3.254	.641	1.022	1.2200		.1100		ARMENTER. NPB8,233-68	
		3.254	.641	1.022	1.2000		.1100		CONFORTO NPB8,265-68	
		3.291	.661	1.044	1.0300		.1000		ARMENTER. NPB8,233-68	
		3.291	.661	1.044	1.0300		.1000		CONFORTO NPB8,265-68	
		3.291	.661	1.044	.9300		.1000		BURKHARD,NPB14,106-70	
		3.320	.676	1.061	1.1800		.0800		BURKHARD,NPB14,106-70	
		3.320	.676	1.061	1.1500		.0800		CONFORTO NPB8,265-68	
		3.320	.676	1.061	1.2100		.0900		ARMENTER. NPB8,233-68	
		3.353	.694	1.080	1.2600		.1100		ARMENTER. NPB8,233-68	
		3.353	.694	1.080	1.2000		.1100		CONFORTO NPB8,265-68	
		3.353	.694	1.080	1.1200		.1100		BURKHARD,NPB14,106-70	
		3.390	.714	1.102	1.4400		.1200		ARMENTER. NPB8,233-68	
		3.390	.714	1.102	1.3900		.1100		CONFORTO NPB8,265-68	
		3.390	.714	1.102	1.3400		.1100		BURKHARD,NPB14,106-70	
		3.416	.727	1.117	1.4500		.1100		CONFORTO NPB8,265-68	
		3.416	.727	1.117	1.5100		.1100		ARMENTER. NPB8,233-68	
		3.416	.727	1.117	1.2300		.1100		BURKHARD,NPB14,106-70	
		3.445	.743	1.134	1.3200		.1300		BURKHARD,NPB14,106-70	
		3.445	.743	1.134	1.3100		.1300		CONFORTO NPB8,265-68	
		3.445	.743	1.134	1.4200		.1300		ARMENTER. NPB8,233-68	
		3.473	.758	1.150	1.0000		.3000		GRAZIA. PR128,1868-62	
		3.478	.760	1.153	1.8300		.1200		ARMENTER. NPB8,233-68	
		3.478	.760	1.153	1.8000		.1200		CONFORTO NPB8,265-68	
		3.478	.760	1.153	1.6300		.1200		BURKHARD,NPB14,106-70	
		3.514	.780	1.174	1.6000		.1400		BURKHARD,NPB14,106-70	
		3.514	.780	1.174	1.6200		.1400		CONFORTO NPB8,265-68	
		3.514	.780	1.174	1.6300		.1200		ARMENTER. NPB8,233-68	
		3.530	.788	1.183	1.4100		.1300		BURKHARD,NPB14,106-70	
		3.530	.788	1.183	1.4700		.1200		ARMENTER. NPB8,233-68	
		3.530	.788	1.183	1.4100		.1300		CONFORTO NPB8,265-68	
		3.604	.828	1.226	1.5000		.2300		BURKHARD,NPB14,106-70	
		3.604	.828	1.226	1.6800		.2300		CONFORTO NPB8,265-68	
		3.604	.828	1.226	1.6500		.2100		ARMENTER. NPB8,233-68	
		3.786	.925	1.330	1.3000		.0800		TROWER PR170,1207-68	
		4.990	1.566	2.000	1.2900		.1000		DICKENSON PL23,505-66	
		5.429	1.800	2.240	1.2400		.2000		DICKENSON PL23,505-66	
		6.201	2.212	2.660	1.4800		.1400		FICENEC PR175,1725-68	1
		6.802	2.532	2.985	.8500		.0800		FOCARDI PL16,351-65	
		6.829	2.547	3.000	.8500		.1200		MERRILL,NPB18,403-70	
		7.757	3.041	3.500	.4200		.0400		MUSGRAVE RPP/H/29-67	
		20.100	9.618	10.100	.2800		.0100		ABCLV 68	
	THRESHOLD	2.47	.22	.52					95 DATA POINTS LISTED	
..... REACTION 30										
PK-2PI+2PI-		20.100	9.618	10.100	.2000		.0200		ABCLV COLL 68	
	THRESHOLD	3.97	1.02	1.43						
..... REACTION 31										
PK-2PI+2PI-PIO		20.100	9.618	10.100	.4800		.0300		ABCLV COLL 68	
	THRESHOLD	4.55	1.33	1.76						

FOOTNOTES

$=DATA POINT NOT USED IN FITTING OR PLOTTING
1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR + -	REFERENCE	FOOT-NOTES
..... REACTION 32								
PK-Z0	3.786	.925	1.330	.1000		.0200	TROWER PR17C,1207-68	
THRESHOLD	2.93	.47	.83					
..... REACTION 33								
PK-KSKS	9.153	3.785	4.250	1.4000	MICROB	.8000	ABRAMS PR175,1697-68	
THRESHOLD	5.89	2.04	2.49					
..... REACTION 34								
PK-KSKSPI0	9.153	3.785	4.250	.9000	MICROB	.6000	ABRAMS PR175,1697-68	
THRESHOLD	6.58	2.42	2.87					
..... REACTION 35								
PK-KSKSZ0	9.153	3.785	4.250	.5000	MICROB	.5000	ABRAMS PR175,1697-68	
THRESHOLD	7.32	2.81	3.27					
..... REACTION 36								
PK-OM	19.912	9.518	10.000	.0770		.0060	ADERHOLZ,NPB14,255-69	
THRESHOLD	4.91	1.52	1.95					
..... REACTION 37								
PKOPI+PI-PI-	6.829	2.547	3.000	.1540		.0160	MERRILL,NPB18,403-70	
	7.757	3.041	3.500	.2200		.0200	MUSGRAVE RPP/H/29-67	
	9.153	3.785	4.250	.3900		.0350	YODH VIENNA64-68	
	12.421	5.526	6.000	.2720		.0440	GOLDSACK,NPB29,529-71	
	20.100	9.618	10.100	.2900		.0200	ABOLV COLL 68	
THRESHOLD	3.43	.73	1.13				5 DATA POINTS LISTED	
..... REACTION 38								
PKOPI+PI-PI- (NON RESON.)	12.421	5.526	6.000	0.0000	MICROB	5.0000	GOLDSACK,NPB29,529-70	$
THRESHOLD	3.43	.73	1.13					
..... REACTION 39								
PKOPI+PI-PI-PI0	6.829	2.547	3.000	7.0000	MICROB	3.0000	MERRILL,NPB18,403-70	
	7.757	3.041	3.500	.0900		.0100	MUSGRAVE RPP/H/29-67	
	12.421	5.526	6.000	.3860		.0620	GOLDSACK,NPB29,529-71	
	20.100	9.618	10.100	.4700		.0300	ABOLV COLL 68	
THRESHOLD	3.97	1.02	1.43				4 DATA POINTS LISTED	
..... REACTION 40								
PKOPI+PI-PI-PI0 (NON RES.)	12.421	5.526	6.000	0.0000	MICROB	4.0000	GOLDSACK,NPB29,529-71	$
THRESHOLD	3.95	1.01	1.42					
..... REACTION 41								
PKOPI-	2.489	.234	.534	0.0000	MICROB	10.0000	ARMENTER. NPB21,15-70	$
	2.517	.248	.554	0.0000	MICROB	10.0000	ARMENTER. NPB21,15-70	$
	2.544	.263	.573	0.0000	MICROB	10.0000	ARMENTER. NPB21,15-70	$
	2.578	.281	.597	0.0000	MICROB	10.0000	ARMENTER. NPB21,15-70	$
	2.607	.296	.617	.0200		.0100	ARMENTER. NPB21,15-70	
	2.612	.299	.620	0.0000	MICROB	30.0000	BASTIEN PRL1C,188-63	$
	2.637	.312	.637	.0100		.0100	ARMENTER. NPB21,15-70	
	2.668	.329	.658	0.0000	MICROB	10.0000	ARMENTER. NPB21,15-70	$
	2.697	.344	.677	.0100		.0100	ARMENTER. NPB21,15-70	
	2.730	.362	.699	.0400		.0200	ARMENTER. NPB21,15-70	
	2.761	.378	.719	.0500		.0300	ARMENTER. NPB21,15-70	
	2.794	.396	.740	.0700		.0300	ARMENTER. NPB21,15-70	
	2.825	.413	.760	.0400		.0300	BASTIEN PRL1C,188-63	
	2.827	.413	.761	.1200		.0500	ARMENTER. NPB21,15-70	
	2.845	.423	.773	.0700		.0300	ARMENTER. NPB21,15-70	
	2.852	.427	.777	.1400		.0500	CONFORTO NPB8,265-68	
	2.852	.427	.777	.1100		.1500	ARMENTER. NPB8,233-68	
	2.877	.440	.793	.1500		.0500	ARMENTER. NPB21,15-70	
	2.898	.451	.806	.2100		.1600	ARMENTER. NPB8,233-68	
	2.898	.451	.806	.2700		.0900	CONFORTO NPB8,265-68	
	2.949	.479	.838	.1500		.2200	ARMENTER. NPB8,233-68	
	2.949	.479	.838	.2200		.0800	CONFORTO NPB8,265-68	
	2.969	.489	.850	.1000		.0600	BASTIEN PRL1C,188-63	
	2.974	.492	.853	.2600		.0700	CONFORTO NPB8,265-68	
	2.974	.492	.853	.2700		.0700	ARMENTER. NPB8,233-68	
	3.008	.510	.874	.3000		.1000	ARMENTER. NPB8,233-68	
	3.008	.510	.874	.3400		.0700	CONFORTO NPB8,265-68	
	3.041	.527	.894	.4000		.0800	CONFORTO NPB8,265-68	
	3.041	.527	.894	.2700		.2900	ARMENTER. NPB8,233-68	
	3.057	.536	.904	.3200		.0700	CONFORTO NPB8,265-68	
	3.057	.536	.904	.3200		.1300	ARMENTER. NPB8,233-68	
	3.077	.547	.916	.2900		.2900	ARMENTER. NPB8,233-68	
	3.077	.547	.916	.4400		.1100	CONFORTO NPB8,265-68	
	3.108	.564	.935	.3400		.0700	CONFORTO NPB8,265-68	
	3.108	.564	.935	.3600		.0800	ARMENTER. NPB8,233-68	
	3.140	.580	.954	.5600		.0900	CONFORTO NPB8,265-68	
	3.140	.580	.954	.4600		.2300	ARMENTER. NPB8,233-68	
	3.167	.595	.970	.3900		.0700	CONFORTO NPB8,265-68	
	3.167	.595	.970	.3400		.1600	ARMENTER. NPB8,233-68	
	3.202	.613	.991	.5800		.2100	ARMENTER. NPB8,233-68	
	3.202	.613	.991	.6800		.0900	CONFORTO NPB8,265-68	
	3.254	.641	1.022	.9600		.1200	CONFORTO NPB8,265-68	
	3.254	.641	1.022	.8000		.4200	ARMENTER. NPB8,233-68	
	3.291	.661	1.044	1.3600		.1300	CONFORTO NPB8,265-68	
	3.291	.661	1.044	1.0800		.6000	ARMENTER. NPB8,233-68	
	3.302	.667	1.050	.7800		.1100	WOJCIC. PR135B,484-64	
	3.320	.676	1.061	1.2500		.2400	ARMENTER. NPB8,233-68	
	3.320	.676	1.061	1.2900		.1100	CONFORTO NPB8,265-68	
	3.353	.694	1.080	1.3200		.1400	CONFORTO NPB8,265-68	

FOOTNOTES

$=DATA POINT NOT USED IN FITTING OR PLOTTING

K-P

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 41										
PKOPI-	3.353	.694	1.080		1.1000		.5300		ARMENTER. NPB8,233-68	
(CONTINUATION)	3.390	.714	1.102		1.6700		.1500		CONFORTO NPB8,265-68	
	3.390	.714	1.102		1.6100		.2400		ARMENTER. NPB8,233-68	
	3.404	.721	1.110		1.5100		.2000		WOJCIC. PR135B,484-64	
	3.416	.727	1.117		1.6900		.3100		ARMENTER. NPB8,233-68	
	3.416	.727	1.117		1.7400		.1400		CONFORTO NPB8,265-68	
	3.445	.743	1.134		1.8200		.1800		CONFORTO NPB8,265-68	
	3.445	.743	1.134		1.6500		.4600		ARMENTER. NPB8,233-68	
	3.473	.758	1.150		2.0000		.3000		FRIED.PRL16,485-66	
	3.478	.760	1.153		1.7500		.8600		ARMENTER. NPB8,233-68	
	3.478	.760	1.153		2.1400		.1700		CONFORTO NPB8,265-68	
	3.514	.780	1.174		2.4400		.2100		CONFORTO NPB8,265-68	
	3.514	.780	1.174		2.3400		.3400		ARMENTER. NPB8,233-68	
	3.530	.788	1.183		1.0000		.2400		ARMENTER. NPB8,233-68	
	3.530	.788	1.183		1.9700		.1800		CONFORTO NPB8,265-68	
	3.577	.813	1.210		1.4900		.1200		WOJCIC. PR135B,484-64	
	3.604	.828	1.226		2.0500		.5100		ARMENTER. NPB8,233-68	
	3.604	.828	1.226		1.8400		.3000		CONFORTO NPB8,265-68	
	3.769	.916	1.320		1.4400		.1200		WOJCIC. PR135B,484-64	
	3.786	.925	1.330		1.5100		.1100		TROWER PR170,1207-68	
	3.945	1.010	1.420		1.8100		.1500		WOJCIC. PR135B,484-64	
	4.034	1.057	1.470		2.0000		.3000		COOPER,298,CERN62	
	4.088	1.085	1.500		1.7300		.1200		WOJCIC. PR135B,484-64	
	4.266	1.181	1.600		1.8500		.2000		WOJCIC. PR135B,484-64	
	4.428	1.267	1.690		2.2400		.2500		WOJCIC. PR135B,484-64	
	4.990	1.566	2.000		1.7800		.1300		DICKENSON PL23,505-66	
	5.172	1.663	2.100		2.0500		.1000		FRIED.PRL16,485-66	
	5.429	1.800	2.240		1.2600		.2000		DICKENSON PL23,505-66	
	5.429	1.800	2.240		1.3870		.1000		LONDON PR143,1034-66	
	5.814	2.005	2.450		1.7900		.1000		FRIED.PRL16,485-66	
	6.164	2.192	2.640		1.4500		.0900		FRIED.PRL16,485-66	
	6.201	2.212	2.660		1.6600		.1700		FICENEC PR175,1725-68	1
	6.802	2.532	2.985		1.3200		.1400		FOCARDI PL16,351-65	
	6.829	2.547	3.000		1.0980		.0520		MERRILL,NPB18,403-70	
	7.757	3.041	3.500		.8800		.0500		MUSGRAVE RPP/H/29-67	
	8.873	3.636	4.100		.7300		.0980		SCHWEIN.PR166,1317-68	
	9.750	4.103	4.570		.7040		.1240		KANG PR176,1587-68	
	11.487	5.028	5.500		.4120		.0410		SCHWEIN.PR166,1317-68	
	20.100	9.618	10.100		.2200		.0200		ABCLV COLL 68	
THRESHOLD	2.47	.22	.52						88 DATA POINTS LISTED	
..... REACTION 42										
PKOPI-PIO	5.429	1.800	2.240		.6880		.0620		LONDON PR143,1034-66	
	6.829	2.547	3.000		1.0420		.0520		COLTON NP B17,117-70	
	6.829	2.547	3.000		1.0420		.0520		MERRILL,NPB18,403-70	
	7.757	3.041	3.500		1.1200		.0700		MUSGRAVE RPP/H/29-67	
	11.487	5.028	5.500		.3400		ERROR NOT GIVEN		ATHENS-60	
	12.421	5.526	6.000		.7500		.1500		COLLEY NC59A,519-69	
	20.100	9.618	10.100		.5500		.0300		ABCLV COLL 68	
THRESHOLD	2.93	.47	.83						7 DATA POINTS LISTED	
..... REACTION 43										
PKOPI-ZO	3.786	.925	1.330		.0800		.0300		TROWER PR170,1207-68	
	6.829	2.547	3.000		.1530		.0190		MERRILL,NPB18,403-70	
THRESHOLD	3.43	.73	1.13						2 DATA POINTS LISTED	
..... REACTION 44										
PKO2PI+3PI-	20.100	9.618	10.100		.0760		.0250		ABCLV COLL 68	
THRESHOLD	4.55	1.33	1.76							
..... REACTION 45										
(P/N)KOKOK	12.421	5.526	6.000		.0190		.0080		SCOTTER NC62A,1057-69	
THRESHOLD	5.89	2.04	2.49							
..... REACTION 46										
(P/N)KOKOKMPI	12.421	5.526	6.000		8.0000 MICROB		5.0000		SCOTTER NC62A,1057-69	
THRESHOLD	5.89	2.04	2.49							
..... REACTION 47										
PKSKSKSPI-	9.153	3.785	4.250		1.0000 MICROB		ERROR NOT GIVEN		ABRAMS PR175,1697-68	
THRESHOLD	6.60	2.42	2.88							
..... REACTION 48										
(P/N)K	2.744	.369	.708		16.1000		1.0000		BERTAN. PR177,2036-69	A
	2.770	.383	.725		14.4000		.7000		BERTAN. PR177,2036-69	A
	2.795	.397	.741		13.7000		.8000		BERTAN. PR177,2036-69	A
	2.838	.419	.768		18.0000		1.1000		BERTAN. PR177,2036-69	A
	2.892	.448	.802		24.0000		1.1000		BERTAN. PR177,2036-69	A
	2.920	.463	.820		23.1000		.8000		BERTAN. PR177,2036-69	A
THRESHOLD	2.07	.01	.10						6 DATA POINTS LISTED	
..... REACTION 49										
PETK-	8.315	3.338	3.800		.0130		.0040		CARMONY PRL18,615-67	
	24.786	12.116	12.600		.0470		.0110		LACH HEID 67	
THRESHOLD	3.93	1.00	1.41						2 DATA POINTS LISTED	
..... REACTION 50										
PETK-=PK-PI+PI-PIO	10.179	4.332	4.800		.0270		.0090		JUHALA PR184,1461-69	1
THRESHOLD	3.93	1.00	1.41							
..... REACTION 51										
(P/N)K725	3.786	.925	1.330	U	.0650				FICENEC PR169,1034-68	W
THRESHOLD	2.77	.38	.72							

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA
A=SUM OF ALL FINAL STATES WHICH INCLUDE THE GIVEN PARTICLES
W=A TRUE AND U TRUE
U=UPPER LIMIT

K-P

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 52									
PRH+K-PI-	10.179	4.332	4.800	.0740		.0190		JUHALA PR184,1461-69	1
THRESHOLD	5.44	1.81	2.25						
..... REACTION 53									
PRH-K-PI+	10.179	4.332	4.800	.0450		.0150		JUHALA PR184,1461-69	1
THRESHOLD	5.44	1.81	2.25						
..... REACTION 54									
PRH-KO	7.757	3.041	3.500	.1400		.0500		MUSGRAVE RPP/H/29-67	
	12.421	5.526	6.000	.0600		.0300		CCLLEY NC59A,519-69	
THRESHOLD	4.80	1.47	1.90					2 DATA POINTS LISTED	
..... REACTION 55									
PRHOK-	7.757	3.041	3.500	.0900		.0400		MUSGRAVE RPP/H/29-67	
	12.421	5.526	6.000	.0400		.0200		CCLLEY NC59A,519-69	
THRESHOLD	4.80	1.47	1.90					2 DATA POINTS LISTED	
..... REACTION 56									
PRHOKOPI-	12.421	5.526	6.000	.0680		.0160		GOLDSACK,NPB29,529-71	
THRESHOLD	5.44	1.81	2.25						
..... REACTION 57									
POMK-	8.315	3.338	3.800	.0760		.0110		CARMONY PRL18,615-67	
	20.100	9.618	10.100	.0770		.0060		ADERHOLZ NPB14,255-69	
	24.786	12.116	12.600	.0350		.0050		LACH HEID 67	
THRESHOLD	4.91	1.52	1.95					3 DATA POINTS LISTED	
..... REACTION 58									
POMK-=PK-PI+PI-PIO	10.179	4.332	4.800	.1200		.0250		JUHALA PR184,1461-69	1
THRESHOLD	4.91	1.52	1.95						
..... REACTION 59									
POMK- (NON RESONANT)	8.315	3.338	3.800	6.0000	MICROB	10.0000		CARMONY PRL18,615-67	
THRESHOLD	4.91	1.52	1.95						
..... REACTION 60									
POMKOPI-	7.757	3.041	3.500	.0700		.0300		MUSGRAVE RPP/H/29-67	
	12.421	5.526	6.000	.0660		.0150		GOLDSACK,NPB29,529-71	
THRESHOLD	5.55	1.86	2.30					2 DATA POINTS LISTED	
..... REACTION 61									
PK*-890	3.473	.758	1.150	1.3500		.3000		GRAZIA. PR128,1868-62	
	3.786	.925	1.330	1.6600		.0900		FICENEC PR169,1034-68	
	4.627	1.373	1.800	1.8900		.1400		SMITH,380,ATHENS65	*
	4.899	1.518	1.950	1.8800		.1500		SMITH,380,ATHENS65	*
	4.990	1.566	2.000	1.3000		.0800		DICKENSON PL23,505-66	
	5.172	1.663	2.100	2.0100		.1200		FRIED.PRL16,485-66	*
	5.429	1.800	2.240	1.3750		.1390		LONDON PR143,1034-66	
	5.814	2.005	2.450	1.6500		.1200		FRIED.PRL16,485-66	*
	6.164	2.192	2.640	1.2450		.0750		FRIED.PRL16,485 66	*
	6.829	2.547	3.000	.8390		.0460		BADIER CEA R3037-66	
	7.757	3.041	3.500	.7600		.0600		MUSGRAVE RPP/H/29-67	
	8.873	3.636	4.100	.5000		.0620		SCHWEIN.PR166,1317-68	*
	9.750	4.103	4.570	.4200		.4300		KANG PR176,1587-68	*
	9.806	4.133	4.600	.2500		.0200		CARMONY NPB12,9-69	
	11.487	5.028	5.500	.2790		.0260		SCHWEIN.PR166,1317-68	*
	12.421	5.526	6.000	.1650		.0380		CCLLEY NC53A,522-68	
	20.100	9.618	10.100	.0920		.0090		ADERHOLZ NPB7,111-68	
	20.100	9.618	10.100	.1400		.0020		ABCLV AMSTERDAM-71	
THRESHOLD	3.34	.69	1.07					18 DATA POINTS LISTED	
				FIT OF SIGMA AGAINST PLAB GEV/C					
				7 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .46					
				K = 1.60 +- .54 N = -1.08 +- .15					
..... REACTION 62									
P(K*890PI)-	11.487	5.028	5.500	1.1800		.0700		WANGLER BAPS12,505-67	
THRESHOLD	3.87	.97	1.38						
..... REACTION 63									
PK*-890=PK-PIO	3.786	.925	1.330	.6000		.0400		FICENEC PR169,1034-68	
	6.201	2.212	2.660	.5100		.0370		FICENEC PR175,1725-68	1
THRESHOLD	3.34	.69	1.07					2 DATA POINTS LISTED	
..... REACTION 64									
PK*-890=PKOPI-	3.473	.758	1.150	1.3000		.3000		ALSTON,291,CERN62	
	3.786	.925	1.330	1.0600		.0700		FICENEC PR169,1034-68	
	4.627	1.373	1.800	1.2600		.0900		SMITH,380,ATHENS65	
	4.899	1.518	1.950	1.2500		.1000		SMITH,380,ATHENS65	
	5.172	1.663	2.100	1.3400		.0800		FRIED.PRL16,485-66	
	5.814	2.005	2.450	1.1000		.0800		FRIED.PRL16,485-66	
	6.164	2.192	2.640	.8300		.0500		FRIED.PRL16,485-66	
	6.201	2.212	2.660	.9340		.0600		FICENEC PR175,1725-68	1
	6.829	2.547	3.000	.7600		.1500		BARLOUTA. PL12,352-64	
	8.873	3.636	4.100	.3330		.0410		SCHWEIN.PR166,1317-68	
	9.750	4.103	4.570	.2790		.0290		KANG PR176,1587-68	
	11.487	5.028	5.500	.1860		.0170		SCHWEIN.PR166,1317-68	
	12.421	5.526	6.000	.1100		.0250		CCLLEY NC53A,522-68	
THRESHOLD	3.34	.69	1.07					13 DATA POINTS LISTED	

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA
*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS

K-P

	S	K.ENERGY	PLAB		CROSS SECTION	ERROR +	ERROR -		REFERENCE	FOOT-NOTES
..... REACTION 65										
PK*-890PI+PI-	7.757	3.041	3.500		.2900	.1500			MUSGRAVE RPP/H/29-67	
THRESHOLD	4.44	1.28	1.70							
..... REACTION 66										
PK*-890PI+PI-=PK-PI+PI-PIO	10.179	4.332	4.800		.0590	.0150			JUHALA PR184,1461-69	1
THRESHOLD	4.44	1.27	1.69							
..... REACTION 67										
PK*-890PI+PI-=PK0PI+PI-PI-	12.421	5.526	6.000		.0670	.0180			GOLDSACK,NPB29,529-71	
THRESHOLD	4.44	1.28	1.70							
..... REACTION 68										
PK*-PI+PI-PIO(K*-=K0PI-)	12.421	5.526	6.000		.1930	.0190			GOLDSACK,NPB29,529-71	
THRESHOLD	5.03	1.59	2.02							
..... REACTION 69										
PK*-890PIO	5.429	1.800	2.240		.3000	.0600			LONDON PR143,1034-66	
	7.757	3.041	3.500		.6400	.0800			MUSGRAVE RPP/H/29-67	
	12.421	5.526	6.000		.4000	.1000			PALER NPB10,221-69	
THRESHOLD	3.87	.97	1.38						3 DATA POINTS LISTED	
..... REACTION 70										
PK*-890PIO=PK0PI-PIO	12.421	5.526	6.000		.1250	.0400			COLLEY NC59A,519-69	
THRESHOLD	3.87	.97	1.38							
..... REACTION 71										
PK*-890RHO=PK0PI+PI-PI-	12.421	5.526	6.000		.0470	.0170			GOLDSACK,NPB29,529-71	
THRESHOLD	6.70	2.48	2.93							
..... REACTION 72										
PK*-890OM=PK0PI+PI-PI-PIO	12.421	5.526	6.000		.0500	.0120			GOLDSACK,NPB29,529-71	
THRESHOLD	6.82	2.54	3.00							
..... REACTION 73										
PK*0890PI-	5.429	1.800	2.240		.1770	.0440			LONDON PR143,1034-66	
	7.757	3.041	3.500		.7800	.0900			MUSGRAVE RPP/H/29-67	
	12.421	5.526	6.000		.4000	.1000			PALER NPB10,221-69	
THRESHOLD	3.87	.97	1.38						3 DATA POINTS LISTED	
..... REACTION 74										
PK*0890PI-=PK-PI+PI-	4.990	1.566	2.000		.0210	.0110			DAUBER PR153,1403-67	
	12.421	5.526	6.000		.1100	.0300			COLLEY NC59A,519-69	
THRESHOLD	3.87	.97	1.38						2 DATA POINTS LISTED	
..... REACTION 75										
PK*0890PI-=PK0PI-PIO	12.421	5.526	6.000		.0450	.0200			COLLEY NC59A,519-69	
THRESHOLD	3.87	.97	1.38							
..... REACTION 76										
PK*0890PI-PIO=PK-PI+PI-PIO	10.179	4.332	4.800		.1570	.0300			JUHALA PR184,1461-69	1
THRESHOLD	4.42	1.26	1.68							
..... REACTION 77										
PDELK-=PK-PI+PI-PIO	10.179	4.332	4.800		.0210	.0070			JUHALA PR184,1461-69	1
THRESHOLD	5.82	2.01	2.45							
..... REACTION 78										
(P/N)K*	3.786	.925	1.330		3.7000	.1700			FICENEC PR169,1034-68	A
THRESHOLD	3.38	.71	1.10							
..... REACTION 79										
PPHIK-=PK+K-K-	20.100	9.618	10.100		.0160	.0030			ADERHOLZ NPB14,255-69	
THRESHOLD	6.01	2.11	2.56							
..... REACTION 80										
PA10K-=PK-PI+PI-PIO	10.179	4.332	4.800		.0870	.0220			JUHALA PR184,1461-69	1
THRESHOLD	6.41	2.32	2.77							
..... REACTION 81										
PFK-=PK+K-K-	20.100	9.618	10.100	U	2.0000	MICROB			ADERHOLZ NPB14,255-69	
THRESHOLD	7.19	2.74	3.20							
..... REACTION 82										
PA20K-=PK-PI+PI-PIO	10.179	4.332	4.800		.0250	.0110			JUHALA PR184,1461-69	1
THRESHOLD	7.46	2.88	3.34							
..... REACTION 83										
PK*-1320	20.100	9.618	10.100		.5750	.0720			BARTSCH NPB8,9-68	
THRESHOLD	5.10	1.62	2.06							
..... REACTION 84										
PK*-1320=PK-PI+PI-	20.100	9.618	10.100		.2670	.0360			BARTSCH NPB8,9-68	
THRESHOLD	5.10	1.62	2.06							

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA
A=SUM OF ALL FINAL STATES WHICH INCLUDE THE GIVEN PARTICLES
U=UPPER LIMIT

K-P

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 85										
PK*-1320=PK-PIOPIO	20.100	9.618	10.100		.0780		.0160		BARTSCH NPB8,9-68	
THRESHOLD	5.10	1.62	2.06							
..... REACTION 86										
PK*-1320=PKOPI-PIO	20.100	9.618	10.100		.2230		.C36C		BARTSCH NPB8,9-68	
THRESHOLD	5.10	1.62	2.06							
..... REACTION 87										
PK*-1320=PKPI	20.100	9.618	10.100	U	.0100				BARTSCH NPB8,9-68	
THRESHOLD	5.10	1.62	2.06							
..... REACTION 88										
PK*-1320=PKPIPI (DIRECT)	20.100	9.618	10.100		.1270		.0430		BARTSCH NPB8,9-68	
THRESHOLD	5.10	1.62	2.06							
..... REACTION 89										
PK*-1320=PK*890PI	20.100	9.618	10.100		.3220		.C55C		BARTSCH NPB8,9-68	
THRESHOLD	5.10	1.62	2.06							
..... REACTION 90										
PK*-1320=PRHK	20.100	9.618	10.100		.1190		.0190		BARTSCH NPB8,9-68	
THRESHOLD	5.10	1.62	2.06							
..... REACTION 91										
PK*-1320=POMK	20.100	9.618	10.100		7.0000	MICROB	3.CCCC		BARTSCH NPB8,9-68	
THRESHOLD	5.10	1.62	2.06							
..... REACTION 92										
PK*-1400	6.201	2.212	2.660		.3660		.1050		FICENEC PR175,1725-68	*
	6.802	2.532	2.985		.1600		.0800		FOCARDI PL16,351-65	
	6.829	2.547	3.000		.3200		.1600		BADIER PL19,612-65	*
	7.757	3.041	3.500		.5100		.1CCC		MUSGRAVE RPP/H/29-67	*
	8.873	3.636	4.100		.2570		.0570		SCHWEIN.PR166,1317-68	*
	11.487	5.028	5.500		.1570		.0240		SCHWEIN.PR166,1317-68	*
	12.421	5.526	6.000		.0940		.0300		COLLEY NC53A,522-68	*
	20.100	9.618	10.100		.0540		.0130		ADERHOLZ NPB7,111-68	
THRESHOLD	5.47	1.82	2.26						8 DATA POINTS LISTED	
..... REACTION 93										
PK*-1400=PK-PIO	6.201	2.212	2.660		.0560		.0210		FICENEC PR175,1725-68	1
THRESHOLD	5.47	1.82	2.26							
..... REACTION 94										
PK*-1400=PKOPI-	6.201	2.212	2.660		.1220		.0350		FICENEC PR175,1725-68	1
	6.829	2.547	3.000		.1080		.05CC		DERRICK PC	
	8.873	3.636	4.100		.0870		.0190		SCHWEIN.PR166,1317-68	
	11.487	5.028	5.500		.0530		.CC8C		SCHWEIN.PR166,1317-68	
	12.421	5.526	6.000		.0320		.C1CC		COLLEY NC53A,522-68	
THRESHOLD	5.47	1.82	2.26						5 DATA POINTS LISTED	
..... REACTION 95										
PK*-1400=PKPIPI	6.829	2.547	3.000		.2140		.0700		BADIER PL19,612-65	
THRESHOLD	5.47	1.82	2.26							
..... REACTION 96										
PK*-1400=PETK	6.829	2.547	3.000		8.0000	MICROB	8.CCCC		BADIER PL19,612-65	
THRESHOLD	5.47	1.82	2.26							
..... REACTION 97										
PK*-1400=P(KPI)-	6.829	2.547	3.000		.1600		.0800		BADIER PL19,612-65	
	7.757	3.041	3.500		.2600		.05C0		MUSGRAVE RPP/H/29-67	
	20.100	9.618	10.100		.0530		.CC7C		ABCLV AMSTERDAM-71	
THRESHOLD	5.47	1.82	2.26						3 DATA POINTS LISTED	
..... REACTION 98										
PK*-1400=PRHOK-	12.421	5.526	6.000		.0400		.0200		COLLEY NC59A,519-69	
THRESHOLD	5.47	1.82	2.26							
..... REACTION 99										
PK*-1400=PRHK	6.829	2.547	3.000		.0550		.C28C		BADIER PL19,612-65	
THRESHOLD	5.47	1.82	2.26							
..... REACTION 100										
PK*-1400=PK*890PI	6.829	2.547	3.000		.1750		.06C0		BADIER PL19,612-65	
	7.757	3.041	3.500		.1400		.0400		MUSGRAVE RPP/H/29-67	
	12.421	5.526	6.000		.2200		.C55C		COLLEY NC59A,519-69	
THRESHOLD	5.47	1.82	2.26						3 DATA POINTS LISTED	
..... REACTION 101										
PK*-1400=PK*0890PI-=PK-2PI	12.421	5.526	6.000		.1700		.0400		COLLEY NC59A,519-69	
THRESHOLD	5.47	1.82	2.26							
..... REACTION 102										
PK*-1400=POMK	6.829	2.547	3.000		.0310		.C2CC		BADIER PL19,612-65	
THRESHOLD	5.47	1.82	2.26							

FOOTNOTES

U=UPPER LIMIT
*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	REFERENCE	FOOT-NOTES
..... REACTION 103									
PK*-1790	20.100	9.618	10.100		.1710		.0390	BARTSCH NPB8,9-68	
THRESHOLD	7.44	2.87	3.33						
..... REACTION 104									
PK*-1790=PKPI	20.100	9.618	10.100	U	.0100			BARTSCH NPB8,9-68	
THRESHOLD	7.44	2.87	3.33						
..... REACTION 105									
PK*-1790=PK-PI+PI-	12.421	5.526	6.000	U	.0500			COLLEY NC59A,519-69	
	20.100	9.618	10.100		.0580		.0150	BARTSCH NPB8,9-68	
THRESHOLD	7.44	2.87	3.33					2 DATA POINTS LISTED	
..... REACTION 106									
PK*-1790=PK-PIOPIO	20.100	9.618	10.100		.0110		.0070	BARTSCH NPB8,9-68	
THRESHOLD	7.44	2.87	3.33						
..... REACTION 107									
PK*-1790=PKOPI-PIO	12.421	5.526	6.000	U	.0500			COLLEY NC59A,519-69	
	20.100	9.618	10.100		.0730		.0190	BARTSCH NPB8,9-68	
THRESHOLD	7.44	2.87	3.33					2 DATA POINTS LISTED	
..... REACTION 108									
PK*-1790=PKPIPI (DIRECT)	20.100	9.618	10.100		.0480		.0200	BARTSCH NPB8,9-68	
THRESHOLD	7.44	2.87	3.33						
..... REACTION 109									
PK*-1790=POMK	20.100	9.618	10.100		.0140		.0060	BARTSCH NPB8,9-68	
THRESHOLD	7.44	2.87	3.33						
..... REACTION 110									
PK*-1790=PRHK	20.100	9.618	10.100		.0190		.0140	BARTSCH NPB8,9-68	
THRESHOLD	7.44	2.87	3.33						
..... REACTION 111									
PK*-1790=PK*0890PI-	12.421	5.526	6.000	U	.0200			COLLEY NC59A,519-69	
THRESHOLD	7.44	2.87	3.33						
..... REACTION 112									
PK*-1790=PK*890PI	12.421	5.526	6.000	U	.0200			COLLEY NC59A,519-69	
	20.100	9.618	10.100		.0580		.0150	BARTSCH NPB8,9-68	
THRESHOLD	7.44	2.87	3.33					2 DATA POINTS LISTED	
..... REACTION 113									
PK*-1790=PK*890ET	20.100	9.618	10.100	U	8.0000	MICROB		BARTSCH NPB8,9-68	
THRESHOLD	7.44	2.87	3.33						
..... REACTION 114									
PK*-1790=PK*1400PI	20.100	9.618	10.100		.0320		.0250	BARTSCH NPB8,9-68	
THRESHOLD	7.44	2.87	3.33						
..... REACTION 115									
PK*-1790=PPHIK	20.100	9.618	10.100	U	8.0000	MICROB		BARTSCH NPB8,9-68	
THRESHOLD	7.44	2.87	3.33						
..... REACTION 116									
(P/N)KPI	3.786	.925	1.330		6.1700		.2600	FICENEC PR169,1034-68	
THRESHOLD	1.88	0.00	0.00						
..... REACTION 117									
(P/N)KOKOKPI	12.421	5.526	6.000		.0290		.0090	SCOTTER NC62A,1057-69	
THRESHOLD	6.58	2.42	2.87						
..... REACTION 118									
(PPIO/NPI+)KOPI-	4.034	1.057	1.470		.3000		.1000	COOPER,298,CERN62	
THRESHOLD	2.93	.47	.83						
..... REACTION 119									
NK+KSKSPI-	9.153	3.785	4.250		.5000	MICROB	.5000	ABRAMS PR175,1697-68	
THRESHOLD	6.59	2.42	2.87						
..... REACTION 120									
NK-PI+	2.489	.234	.534		0.0000	MICROB	20.0000	ARMENTER. NPB21,15-70	$
	2.517	.248	.554		0.0000	MICROB	10.0000	ARMENTER. NPB21,15-70	$
	2.544	.263	.573		.0200		.0200	ARMENTER. NPB21,15-70	
	2.578	.281	.597		.0200		.0200	ARMENTER. NPB21,15-70	
	2.607	.296	.617		0.0000	MICROB	10.0000	ARMENTER. NPB21,15-70	$
	2.612	.299	.620		.0600		.0600	BASTIEN PRL10,188-63	
	2.637	.312	.637		0.0000	MICROB	10.0000	ARMENTER. NPB21,15-70	$
	2.668	.329	.658		.0200		.0200	ARMENTER. NPB21,15-70	
	2.697	.344	.677		0.0000	MICROB	20.0000	ARMENTER. NPB21,15-70	$
	2.730	.362	.699		.0800		.0400	ARMENTER. NPB21,15-70	
	2.761	.378	.719		.1100		.0600	ARMENTER. NPB21,15-70	
	2.794	.396	.740		.1500		.0600	ARMENTER. NPB21,15-70	
	2.825	.413	.760		0.0000	MICROB	50.0000	BASTIEN PRL10,188-63	$

FOOTNOTES

U=UPPER LIMIT
$=DATA POINT NOT USED IN FITTING OR PLOTTING

********** K-P **********

		S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 120										
NK-PI+		2.827	.413	.761	.0900		.C5C0		ARMENTER. NPB21,15-70	
(CONTINUATION)		2.845	.423	.773	.2700		.C600		ARMENTER. NPB21,15-70	
		2.852	.427	.777	.2200		.0500		ARMENTER. NPB8,233-68	
		2.852	.427	.777	.2200		.0500		CONFORTO NPB8,265-68	
		2.877	.440	.793	.2700		.C600		ARMENTER. NPB21,15-70	
		2.898	.451	.806	.1600		.0500		ARMENTER. NPB8,233-68	
		2.898	.451	.806	.1400		.0500		CONFORTO NPB8,265-68	
		2.949	.479	.838	.3100		.0700		ARMENTER. NPB8,233-68	
		2.949	.479	.838	.3100		.C700		CONFORTO NPB8,265-68	
		2.969	.489	.850	.2000		.1000		BASTIEN PRL10,188-63	
		2.974	.492	.853	.3200		.0600		ARMENTER. NPB8,233-68	
		2.974	.492	.853	.2800		.C600		CONFORTO NPB8,265-68	
		3.008	.510	.874	.3700		.C600		CONFORTO NPB8,265-68	
		3.008	.510	.874	.3700		.0600		ARMENTER. NPB8,233-68	
		3.041	.527	.894	.3600		.0600		ARMENTER. NPB8,233-68	
		3.041	.527	.894	.3600		.C600		CONFORTO NPB8,265-68	
		3.057	.536	.904	.3900		.C600		ARMENTER. NPB8,233-68	
		3.057	.536	.904	.3500		.0600		CONFORTO NPB8,265-68	
		3.077	.547	.916	.4100		.0900		CONFORTO NPB8,265-68	
		3.077	.547	.916	.4100		.C800		ARMENTER. NPB8,233-68	
		3.108	.564	.935	.4700		.C600		ARMENTER. NPB8,233-68	
		3.108	.564	.935	.4500		.0600		CONFORTO NPB8,265-68	
		3.140	.580	.954	.6300		.0800		ARMENTER. NPB8,233-68	
		3.140	.580	.954	.5200		.0800		CONFORTO NPB8,265-68	
		3.167	.595	.970	.6200		.0800		CONFORTO NPB8,265-68	
		3.167	.595	.970	.6500		.0900		ARMENTER. NPB8,233-68	
		3.202	.613	.991	.7300		.0700		CONFORTO NPB8,265-68	
		3.202	.613	.991	.7900		.0900		ARMENTER. NPB8,233-68	
		3.254	.641	1.022	1.2100		.1100		CONFORTO NPB8,265-68	
		3.254	.641	1.022	1.2300		.1100		ARMENTER. NPB8,233-68	
		3.291	.661	1.044	1.3400		.1100		CONFORTO NPB8,265-68	
		3.291	.661	1.044	1.3100		.1100		ARMENTER. NPB8,233-68	
		3.320	.676	1.061	1.3100		.0900		ARMENTER. NPB8,233-68	
		3.320	.676	1.061	1.2500		.0900		CONFORTO NPB8,265-68	
		3.353	.694	1.080	1.2700		.1100		ARMENTER. NPB8,233-68	
		3.353	.694	1.080	1.2600		.1100		CONFORTO NPB8,265-68	
		3.390	.714	1.102	1.3000		.1100		CONFORTO NPB8,265-68	
		3.390	.714	1.102	1.3700		.1100		ARMENTER. NPB8,233-68	
		3.416	.727	1.117	1.4000		.1000		CONFORTO NPB8,265-68	
		3.416	.727	1.117	1.4700		.1000		ARMENTER. NPB8,233-68	
		3.445	.743	1.134	1.4600		.1400		CONFORTO NPB8,265-68	
		3.445	.743	1.134	1.5000		.1300		ARMENTER. NPB8,233-68	
		3.473	.758	1.150	2.1000		.4000		GRAZIA. PR128,1868-62	
		3.478	.760	1.153	1.6600		.1200		CONFORTO NPB8,265-68	
		3.478	.760	1.153	1.6000		.1100		ARMENTER. NPB8,233-68	
		3.514	.780	1.174	1.7600		.1400		ARMENTER. NPB8,233-68	
		3.514	.780	1.174	1.7500		.1400		CONFORTO NPB8,265-68	
		3.530	.788	1.183	2.0900		.1500		CONFORTO NPB8,265-68	
		3.530	.788	1.183	2.1200		.1500		ARMENTER. NPB8,233-68	
		3.604	.828	1.226	2.3800		.2800		CONFORTO NPB8,265-68	
		3.604	.828	1.226	2.4100		.3000		ARMENTER. NPB8,233-68	
		3.786	.925	1.330	1.8200		.1200		TROWER PR17C,1207-68	
		3.786	.925	1.330	1.8200		.1200		FICENEC PR169,1034-68	
		4.990	1.566	2.000	2.9400		.1500		DICKENSON PL23,505-66	
		5.429	1.800	2.240	1.8400		.2000		DICKENSON PL23,505-66	
		6.201	2.212	2.660	2.0500		.2100		FICENEC PR175,1725-68	1
		6.829	2.547	3.000	1.5500		.1800		GOLDBERG PL30B,434-69	
		6.829	2.547	3.000	1.5500		.1800		MERRILL,NPB18,403-70	
		7.757	3.041	3.500	.8600		.0800		MUSGRAVE RPP/H/29-67	
		8.873	3.636	4.100	1.3560		.1620		SCHWEIN.PR166,1317-68	
		9.750	4.103	4.570	1.2220		.1120		KANG PR176,1587-68	
		11.487	5.028	5.500	.8320		.1120		SCHWEIN.PR166,1317-68	
		20.100	9.618	10.100	.3500		.C140		ABCLV CCLL VIENNA 68	
	THRESHOLD	2.48	.23	.53					76 DATA POINTS LISTED	
..... REACTION 121										
NK-PI+PI+PI-		6.829	2.547	3.000	.2000		.0400		MERRILL,NPB18,403-70	
		9.806	4.133	4.600	.4200		.0600		JUHALA PR184,1461-69	
		10.179	4.332	4.800	.4100		.C700		JUHALA PR184,1461-69	1
		10.552	4.531	5.000	.3900		.C700		JUHALA PR184,1461-69	
		20.100	9.618	10.100	.4300		.0200		ABCLV CCLL 68	
	THRESHOLD	3.44	.74	1.13					5 DATA POINTS LISTED	
..... REACTION 122										
NK-PI+Z0		3.786	.925	1.330	.0900		.C200		TROWER PR17C,1207-68	
	THRESHOLD	3.44	.74	1.13						
..... REACTION 123										
NK-3PI+2PI-		20.100	9.618	10.100	.1750		.0210		ABCLV CCLL 68	
	THRESHOLD	4.55	1.33	1.76						
..... REACTION 124										
NK-KSKSPI+		9.153	3.785	4.250	.9000	MICROB	.6000		ABRAMS PR175,1697-68	
	THRESHOLD	6.59	2.42	2.87						
..... REACTION 125										
NKO		2.070	.010	.100	19.8000		3.7000		KITTEL PL21,349-66	
		2.072	.011	.107	28.4000		ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.078	.014	.120	23.9000		5.5000		ABRAMS PR139B,454-65	1
		2.086	.019	.138	18.9000		2.5000		KITTEL PL21,349-66	
		2.086	.019	.138	19.0000		ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.099	.026	.162	20.4000		ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.100	.026	.163	15.7000		1.8000		KITTEL PL21,349-66	
		2.107	.030	.175	13.8000		2.6000		ABRAMS PR139B,454-65	1
		2.116	.035	.188	13.2000		ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.116	.035	.188	12.6000		1.5000		KITTEL PL21,349-66	

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 125									
NKO									
(CONTINUATION)	2.133	.044	.212	13.8000		ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
	2.142	.049	.225	10.7000		2.1000		ABRAMS PR139B,454-65	1
	2.142	.049	.225	8.2000		1.7000		KITTEL PL21,349-66	
	2.153	.054	.238	19.4000		ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
	2.173	.065	.262	0.0000	MICROB	ERROR NOT GIVEN		HUMPHR. PR127,1305-62	$
	2.174	.066	.263	5.4000		1.7000		KITTEL PL21,349-66	
	2.202	.080	.293	8.0000		1.2000		FERRO-LUZ. PRL8,28-62	
	2.208	.084	.300	2.7000		2.7000		NORDIN PR123,2168-61	
	2.208	.084	.300	2.1000		2.0000		KITTEL PL21,349-66	
	2.260	.111	.350	8.0000		.7000		BERLEY,PR1,1996-70	
	2.260	.111	.350	5.1000		1.1000		FERRO-LUZ. PRL8,28-62	
	2.282	.123	.370	9.6000		.7000		BERLEY,PR1,1996-70	
	2.305	.135	.390	8.8000		.7000		FERRO-LUZ. PRL8,28-62	
	2.305	.135	.390	14.0000		1.7000		BERLEY,PR1,1996-70	
	2.305	.135	.390	9.3000		1.0000		BERLEY,PR1,1996-70	
	2.317	.142	.400	8.1000		3.7000		NORDIN PR123,2168-61	
	2.329	.148	.410	10.6000		.9000		BERLEY,PR1,1996-70	
	2.353	.161	.430	8.4000		1.3000		BERLEY,PR1,1996-70	
	2.358	.164	.434	6.0000		1.2000		FERRO-LUZ. PRL8,28-62	
	2.360	.165	.436	6.3200		.8900		ARMENTER. NPB21,15-70	
	2.384	.178	.455	5.2600		.4700		ARMENTER. NPB21,15-70	
	2.410	.191	.475	4.6200		.3700		ARMENTER. NPB21,15-70	
	2.436	.205	.495	4.4200		.4000		ARMENTER. NPB21,15-70	
	2.460	.218	.513	3.6000		.6000		FERRO-LUZ. PRL8,28-62	
	2.462	.219	.514	4.0400		.3700		ARMENTER. NPB21,15-70	
	2.489	.234	.534	4.2800		.4400		ARMENTER. NPB21,15-70	
	2.517	.248	.554	4.3900		.3400		ARMENTER. NPB21,15-70	
	2.544	.263	.573	3.9900		.3400		ARMENTER. NPB21,15-70	
	2.574	.279	.594	4.4000		.4400		BERTAN. PR177,2036-69	
	2.578	.281	.597	3.9000		.2700		ARMENTER. NPB21,15-70	
	2.607	.296	.617	3.5500		.2700		ARMENTER. NPB21,15-70	
	2.612	.299	.620	2.3000		.4000		BASTIEN PRL10,188-63	
	2.637	.312	.637	3.5000		.2500		ARMENTER. NPB21,15-70	
	2.656	.322	.650	5.0000		1.1000		BERTAN. PR177,2036-69	
	2.668	.329	.658	3.8500		.2700		ARMENTER. NPB21,15-70	
	2.683	.337	.668	3.4700		.3400		BERTAN. PR177,2036-69	
	2.697	.344	.677	3.5700		.2700		ARMENTER. NPB21,15-70	
	2.730	.362	.699	2.8800		.2400		ARMENTER. NPB21,15-70	
	2.744	.369	.708	2.5600		.3300		BERTAN. PR177,2036-69	
	2.761	.378	.719	2.6300		.2500		ARMENTER. NPB21,15-70	
	2.770	.383	.725	2.9000		.2500		BERTAN. PR177,2036-69	
	2.794	.396	.740	2.4500		.2100		ARMENTER. NPB21,15-70	
	2.795	.397	.741	2.0900		.2500		BERTAN. PR177,2036-69	
	2.825	.413	.760	3.8000		.3000		BASTIEN PRL10,188-63	
	2.827	.413	.761	2.8500		.2500		ARMENTER. NPB21,15-70	
	2.838	.419	.768	2.7900		.3300		BERTAN. PR177,2036-69	
	2.845	.423	.773	3.4100		.2700		ARMENTER. NPB21,15-70	
	2.852	.427	.777	3.8100		.4100		ARMENTER. NPB8,233-68	
	2.877	.440	.793	3.8300		.3000		ARMENTER. NPB21,15-70	
	2.892	.448	.802	4.6800		.3700		BERTAN. PR177,2036-69	
	2.898	.451	.806	4.7100		.4800		ARMENTER. NPB8,233-68	
	2.920	.463	.820	4.3500		.3900		BERTAN. PR177,2036-69	
	2.949	.479	.838	3.7600		.4200		ARMENTER. NPB8,233-68	
	2.969	.489	.850	4.0000		.3000		BASTIEN PRL10,188-63	
	2.974	.492	.853	4.1300		.3700		ARMENTER. NPB8,233-68	
	3.008	.510	.874	4.8400		.4200		ARMENTER. NPB8,233-68	
	3.041	.527	.894	4.8100		.4800		ARMENTER. NPB8,233-68	
	3.057	.536	.904	4.8500		.4600		ARMENTER. NPB8,233-68	
	3.077	.547	.916	5.4300		.5400		ARMENTER. NPB8,233-68	
	3.108	.564	.935	5.6800		.5200		ARMENTER. NPB8,233-68	
	3.140	.580	.954	4.7100		.4200		ARMENTER. NPB8,233-68	
	3.167	.595	.970	5.9100		.3800		ARMENTER. NPB8,233-68	
	3.202	.613	.991	5.6200		.5600		ARMENTER. NPB8,233-68	
	3.234	.630	1.010	6.0700		.2000		BRICMAN,PL31B,148-70	
	3.254	.641	1.022	6.6500		.5200		ARMENTER. NPB8,233-68	
	3.276	.653	1.035	6.8700		.2000		BRICMAN,PL31B,148-70	
	3.291	.661	1.044	8.3300		.7800		ARMENTER. NPB8,233-68	
	3.302	.667	1.050	6.7600		.2200		BRICMAN,PL31B,148-70	
	3.320	.676	1.061	8.3900		.5200		ARMENTER. NPB8,233-68	
	3.353	.694	1.080	7.5900		.7000		ARMENTER. NPB8,233-68	
	3.353	.694	1.080	6.3800		.2600		BRICMAN,PL31B,148-70	
	3.390	.714	1.102	6.2200		.5000		ARMENTER. NPB8,233-68	
	3.395	.717	1.105	5.8000		.2200		BRICMAN,PL31B,148-70	
	3.416	.727	1.117	4.7500		.3800		ARMENTER. NPB8,233-68	
	3.438	.739	1.130	5.1100		.1600		BRICMAN,PL31B,148-70	
	3.445	.743	1.134	4.5200		.4300		ARMENTER. NPB8,233-68	
	3.473	.758	1.150	5.3000		.5000		GRAZIA. PR128,1868-62	
	3.478	.760	1.153	4.2600		.4600		ARMENTER. NPB8,233-68	
	3.481	.762	1.155	4.0300		.1800		BRICMAN,PL31B,148-70	
	3.514	.780	1.174	4.1600		.4100		ARMENTER. NPB8,233-68	
	3.530	.788	1.183	4.3400		.3600		ARMENTER. NPB8,233-68	
	3.533	.790	1.185	3.3900		.1200		BRICMAN,PL31B,148-70	
	3.577	.813	1.210	2.9600		.1400		BRICMAN,PL31B,148-70	
	3.594	.822	1.220	2.8300		.1400		WOHL PRL17,107-66	
	3.594	.822	1.220	2.3000		.1000		FERRO-LUZ. 376,CERN62	
	3.604	.828	1.226	2.9400		.4900		ARMENTER. NPB8,233-68	
	3.620	.836	1.235	2.4600		.1200		BRICMAN,PL31B,148-70	
	3.669	.862	1.263	2.4980		.1660		LITCHFIE,NPB30,125-71	
	3.672	.864	1.265	2.1600		.0700		BRICMAN,PL31B,148-70	
	3.716	.887	1.290	1.7200		.0600		BRICMAN,PL31B,148-70	
	3.762	.912	1.316	1.5290		.1040		LITCHFIE,NPB30,125-71	
	3.769	.916	1.320	1.6900		.0300		BRICMAN,PL31B,148-70	
	3.786	.925	1.330	1.7800		.1700		TROWER PR170,1207-68	
	3.804	.934	1.340	1.6300		.0500		BRICMAN,PL31B,148-70	
	3.853	.961	1.368	1.9040		.1360		LITCHFIE,NPB30,125-71	
	3.857	.962	1.370	1.6700		.0500		BRICMAN,PL31B,148-70	
	3.892	.981	1.390	1.5500		.0400		BRICMAN,PL31B,148-70	
	3.936	1.005	1.415	1.8740		.1360		LITCHFIE,NPB30,125-71	
	3.945	1.010	1.420	1.6100		.0400		BRICMAN,PL31B,148-70	
	3.945	1.010	1.420	1.9000		.1200		WOHL PRL17,107-66	
	3.999	1.038	1.450	1.7700		.0400		BRICMAN,PL31B,148-70	
	4.025	1.052	1.465	1.9200		.0830		LITCHFIE,NPB30,125-71	
	4.043	1.062	1.475	1.7900		.0400		BRICMAN,PL31B,148-70	
	4.088	1.085	1.500	1.7400		.0400		BRICMAN,PL31B,148-70	
	4.105	1.095	1.510	1.8300		.0900		WOHL PRL17,107-66	

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA
$=DATA POINT NOT USED IN FITTING OR PLOTTING

K-P

	S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 125								
NKO								
(CONTINUATION)	4.111	1.098	1.513	1.8660	.1000		LITCHFIE,NPB30,125-71	
	4.132	1.109	1.525	1.7900	.0300		BRICMAN,PL31B,148-70	
	4.168	1.128	1.545	2.1350	.1150		LITCHFIE,NPB30,125-71	
	4.177	1.133	1.550	1.8200	.0400		BRICMAN,PL31B,148-70	
	4.222	1.157	1.575	1.8600	.0400		BRICMAN,PL31B,148-70	
	4.266	1.181	1.600	1.7600	.0300		BRICMAN,PL31B,148-70	
	4.266	1.181	1.600	1.9300	.1300		WOHL PRL17,107-66	
	4.277	1.186	1.606	1.6950	.1120		LITCHFIE,NPB30,125-71	
	4.320	1.209	1.630	1.8000	.0300		BRICMAN,PL31B,148-70	
	4.356	1.228	1.650	1.6900	.0400		BRICMAN,PL31B,148-70	
	4.360	1.230	1.652	1.8320	.0890		LITCHFIE,NPB30,125-71	
	4.410	1.257	1.680	1.6900	.0300		BRICMAN,PL31B,148-70	
	4.446	1.276	1.700	1.6600	.1000		WOHL PRL17,107-66	
	4.455	1.281	1.705	1.5600	.0300		BRICMAN,PL31B,148-70	
	4.455	1.281	1.705	1.6850	.0960		LITCHFIE,NPB30,125-71	
	4.500	1.305	1.730	1.5000	.0300		BRICMAN,PL31B,148-70	
	4.516	1.314	1.739	1.5020	.0840		LITCHFIE,NPB30,125-71	
	4.545	1.329	1.755	1.4100	.0300		BRICMAN,PL31B,148-70	
	4.600	1.358	1.785	1.3900	.0300		BRICMAN,PL31B,148-70	
	4.627	1.373	1.800	1.5300	.0900		SMITH,38D,ATHENS65	
	4.627	1.373	1.800	1.5500	.0900		DAUBER PR134B,1370-64	
	4.627	1.373	1.800	1.4510	.0970		LITCHFIE,NPB30,125-71	
	4.636	1.378	1.805	1.3400	.0300		BRICMAN,PL31B,148-70	
	4.663	1.392	1.820	1.2300	.0300		BRICMAN,PL31B,148-70	
	4.705	1.414	1.843	1.4230	.0920		LITCHFIE,NPB30,125-71	
	4.735	1.431	1.860	1.1700	.0200		BRICMAN,PL31B,148-70	
	4.754	1.440	1.870	1.1500	.0200		BRICMAN,PL31B,148-70	
	4.808	1.469	1.900	1.0900	.0200		BRICMAN,PL31B,148-70	
	4.853	1.494	1.925	1.0500	.0200		BRICMAN,PL31B,148-70	
	4.899	1.518	1.950	1.0100	.0200		BRICMAN,PL31B,148-70	
	4.899	1.518	1.950	1.3200	.0900		SMITH,38C,ATHENS65	
	4.944	1.542	1.975	.9910	.0180		BRICMAN,PL31B,148-70	
	4.990	1.566	2.000	.8120	.0950		BARGE PRL13,69-64	
	4.999	1.571	2.005	.9780	.0200		BRICMAN,PL31B,148-70	
	5.045	1.595	2.030	.9520	.0200		BRICMAN,PL31B,148-70	
	5.090	1.620	2.055	.8960	.0170		BRICMAN,PL31B,148-70	
	5.136	1.644	2.080	.8830	.0180		BRICMAN,PL31B,148-70	
	5.181	1.668	2.105	.8890	.0170		BRICMAN,PL31B,148-70	
	5.236	1.698	2.135	.9050	.0170		BRICMAN,PL31B,148-70	
	5.282	1.722	2.160	.8700	.0170		BRICMAN,PL31B,148-70	
	5.328	1.746	2.185	.8790	.0160		BRICMAN,PL31B,148-70	
	5.383	1.776	2.215	.8770	.0160		BRICMAN,PL31B,148-70	
	5.419	1.795	2.235	.8670	.0160		BRICMAN,PL31B,148-70	
	5.429	1.800	2.240	.7820	.0720		LONDON PR143,1034-66	
	5.520	1.849	2.290	.8370	.0180		BRICMAN,PL31B,148-70	
	5.612	1.898	2.340	.8280	.0160		BRICMAN,PL31B,148-70	
	5.713	1.952	2.395	.8030	.0150		BRICMAN,PL31B,148-70	
	5.805	2.001	2.445	.7570	.0150		BRICMAN,PL31B,148-70	
	5.814	2.005	2.450	.5200	.0700		BARBERO-G. ,699,DUB64	
	5.860	2.030	2.475	.7590	.0150		BRICMAN,PL31B,148-70	
	5.906	2.054	2.500	.7000	.0140		BRICMAN,PL31B,148-70	
	5.952	2.079	2.525	.6520	.0170		BRICMAN,PL31B,148-70	
	5.998	2.104	2.550	.6310	.0120		BRICMAN,PL31B,148-70	
	6.044	2.128	2.575	.6470	.0110		BRICMAN,PL31B,148-70	
	6.090	2.153	2.600	.6240	.0110		BRICMAN,PL31B,148-70	
	6.146	2.182	2.630	.6050	.0120		BRICMAN,PL31B,148-70	
	6.192	2.207	2.655	.5840	.0130		BRICMAN,PL31B,148-70	
	6.238	2.231	2.680	.5830	.0130		BRICMAN,PL31B,148-70	
	6.275	2.251	2.700	.3000	.0400		BARBERO-G. ,699,DUB64	
	6.376	2.305	2.755	.5580	.0120		BRICMAN,PL31B,148-70	
	6.570	2.408	2.860	.5030	.0100		BRICMAN,PL31B,148-70	
	6.765	2.512	2.965	.5120	.0090		BRICMAN,PL31B,148-70	
	6.829	2.547	3.000	.4300	.0350		MERRILL,NPB18,403-70	
	6.959	2.616	3.070	.4690	.0080		BRICMAN,PL31B,148-70	
	7.757	3.041	3.500	.4000	.0900		MUSGRAVE RPP/H/29-67	
	8.594	3.487	3.950	.2580	.0150		MOSCOSC,PL31B,513-70	
	8.873	3.636	4.100	.2630	.0280		HODGE BAPS12,505-67	
	10.552	4.531	5.000	.1510	.0180		ASTBURY PL23,396 66	
	11.487	5.028	5.500	.1210	.0080		HODGE BAPS12,505-67	
	12.421	5.526	6.000	.1000	.0200		COLLEY NC53A,522-68	
	14.480	6.623	7.100	.0990	.0080		ASTBURY PL23,396-66	
	15.603	7.222	7.700	.0710	.0130		BUFFING.PR176,1628-68	
	18.975	9.019	9.500	.0700	.0100		ASTBURY PL23,396-66	
	24.224	11.816	12.300	.0450	.0050		ASTBURY PL23,396-66	
THRESHOLD	2.06	.00	.05				189 DATA POINTS LISTED	

FIT OF SIGMA AGAINST PLAB GEV/C

8 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .84

K = 1.56 +- .69 N = -1.43 +- .24

..... REACTION 126								
NKOPI+PI+PI-PI-	6.829	2.547	3.000	5.0000	MICROB	3.0000	MERRILL,NPB18,403-70	
	7.757	3.041	3.500	.0600		.0100	MUSGRAVE RPP/H/29-67	
	12.421	5.526	6.000	.1060		.0280	GOLDSACK,NPB29,529-71	
	20.100	9.618	10.100	.2100		.0200	ABCLV CCLL 68	
THRESHOLD	3.98	1.03	1.44				4 DATA POINTS LISTED	
..... REACTION 127								
NKOPI+PI+PI-PI- (NON RES.)	12.421	5.526	6.000	.2600		.0550	GOLDSACK,NPB29,529-71	
THRESHOLD	3.98	1.03	1.44					
..... REACTION 128								
NKOPI+PI-	5.429	1.800	2.240	.6320		.0570	LONDON PR143,1034-66	
	6.829	2.547	3.000	1.0120		.0510	MERRILL,NPB18,403-70	
	6.829	2.547	3.000	1.0120		.0510	COLTON NP B17,117-70	
	7.757	3.041	3.500	1.1400		.0600	MUSGRAVE RPP/H/29-67	
	12.421	5.526	6.000	.6000		.1200	COLLEY NC59A,519-69	
	20.100	9.618	10.100	.3100		.0200	ABCLV CCLL 68	
THRESHOLD	2.94	.47	.83				6 DATA POINTS LISTED	

K-P

		S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 129										
NKOPIO		2.489	.234	.534	0.0000	MICROB	20.0000		ARMENTER. NPB21,15-70	$
		2.517	.248	.554	.0200		.0200		ARMENTER. NPB21,15-70	
		2.544	.263	.573	.0400		.0400		ARMENTER. NPB21,15-70	
		2.574	.279	.594	0.0000	MICROB	100.0000		BERTAN. PR177,2036-69	$
		2.578	.281	.597	.0600		.0300		ARMENTER. NPB21,15-70	
		2.607	.296	.617	.0600		.0300		ARMENTER. NPB21,15-70	
		2.612	.299	.620	0.0000	MICROB	30.0000		BASTIEN PRL10,188-63	$
		2.637	.312	.637	.0300		.0200		ARMENTER. NPB21,15-70	
		2.656	.322	.650	.1500		.1500		BERTAN. PR177,2036-69	
		2.668	.329	.658	.0100		.0100		ARMENTER. NPB21,15-70	
		2.683	.337	.668	.0700		.0400		BERTAN. PR177,2036-69	
		2.697	.344	.677	.0100		.0100		ARMENTER. NPB21,15-70	
		2.730	.362	.699	.0600		.0300		ARMENTER. NPB21,15-70	
		2.744	.369	.708	.1200		.0600		BERTAN. PR177,2036-69	
		2.761	.378	.719	.1900		.0600		ARMENTER. NPB21,15-70	
		2.770	.383	.725	.0800		.0300		BERTAN. PR177,2036-69	
		2.794	.396	.740	.1200		.0400		ARMENTER. NPB21,15-70	
		2.795	.397	.741	.1500		.0600		BERTAN. PR177,2036-69	
		2.825	.413	.760	0.0000	MICROB	50.0000		BASTIEN PRL10,188-63	$
		2.827	.413	.761	.2600		.0700		ARMENTER. NPB21,15-70	
		2.838	.419	.768	.0600		.0400		BERTAN. PR177,2036-69	
		2.845	.423	.773	.1500		.0500		ARMENTER. NPB21,15-70	
		2.877	.440	.793	.2200		.0600		ARMENTER. NPB21,15-70	
		2.892	.448	.802	.2900		.0700		BERTAN. PR177,2036-69	
		2.920	.463	.820	.2600		.0800		BERTAN. PR177,2036-69	
		2.969	.489	.850	.3000		.1000		BASTIEN PRL10,188-63	
		3.473	.758	1.150	1.3000		.3000		GRAZIA. PR128,1868-62	
	THRESHOLD	2.48	.23	.53					27 DATA POINTS LISTED	
..... REACTION 130										
NKSKSKS		9.153	3.785	4.250	1.4000	MICROB	1.0000		ABRAMS PR175,1697-68	
	THRESHOLD	5.91	2.06	2.50						
..... REACTION 131										
NRHOKO		7.757	3.041	3.500	.0800		.0700		MUSGRAVE RPP/H/29-67	
		12.421	5.526	6.000	.0450		.0350		COLLEY NC59A,519-69	
	THRESHOLD	4.81	1.47	1.90					2 DATA POINTS LISTED	
..... REACTION 132										
NK*-89OPI+		5.429	1.800	2.240	.2020		.0390		LONDON PR143,1034-66	
		7.757	3.041	3.500	.6700		.0800		MUSGRAVE RPP/H/29-67	
		11.487	5.028	5.500	.4400		.0480		WANGLER BAPS12,505-67	
		12.421	5.526	6.000	.2750		.0750		PALER NPB10,221-69	
	THRESHOLD	3.88	.98	1.38					4 DATA POINTS LISTED	
..... REACTION 133										
NK*-89OPI+=NKOPI+PI-		12.421	5.526	6.000	.0800		.0300		COLLEY NC59A,519-69	
	THRESHOLD	3.88	.98	1.38						
..... REACTION 134										
NK*-8902PI+PI-(K*-=KOPI-)		12.421	5.526	6.000	.0990		.0260		GOLDSACK,NPB29,529-71	
	THRESHOLD	5.05	1.60	2.03						
..... REACTION 135										
NK*0890		3.473	.758	1.150	.9000		.1500		GRAZIA. PR128,1868-62	
		3.786	.925	1.330	2.0400		.1400		FICENEC PR169,1034-68	
		4.899	1.518	1.950	1.4000		.3200		SMITH,380,ATHENS65	*
		4.990	1.566	2.000	1.8700		.1000		DICKENSON PL23,505-66	
		5.429	1.800	2.240	.5500		.3000		DICKENSON PL23,505-66	
		6.802	2.532	2.985	.8000		.1100		VERGLAS NC41A,629-66	*
		7.757	3.041	3.500	.5700		.0800		MUSGRAVE RPP/H/29-67	
		8.873	3.636	4.100	.5560		.0620		SCHWEIN.PR166,1317-68	*
		9.750	4.103	4.570	.4080		.0510		KANG PR176,1587-68	*
		11.487	5.028	5.500	.3800		.0480		SCHWEIN.PR166,1317-68	*
		20.100	9.618	10.100	.0580		.0100		ADERHOLZ NPB7,111-68	
		20.100	9.618	10.100	.0960		.0050		ABCLV AMSTERDAM-71	
		22.162	10.717	11.200	.0530		.0080		HYAMS NPB7,1-68	
	THRESHOLD	3.35	.69	1.08					13 DATA POINTS LISTED	
					FIT OF SIGMA AGAINST PLAB GEV/C					
					6 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .83					
					K = 12.54 +- 5.62 N = -2.18 +- .22					
..... REACTION 136										
NK*0890=NK-PI+		3.786	.925	1.330	1.3600		.0900		FICENEC PR169,1034-68	
		4.899	1.518	1.950	.9300		.2100		SMITH,380,ATHENS65	
		6.201	2.212	2.660	.9380		.0450		FICENEC PR175,1725-68	1
		6.802	2.532	2.985	.5300		.0700		VERGLAS NC41A,629-66	
		8.873	3.636	4.100	.3700		.0410		SCHWEIN.PR166,1317-68	
		9.750	4.103	4.570	.3060		.0340		KANG PR176,1587-68	
		11.487	5.028	5.500	.2530		.0320		SCHWEIN.PR166,1317-68	
	THRESHOLD	3.35	.69	1.08					7 DATA POINTS LISTED	
..... REACTION 137										
NK*0890PI+PI-=NK-PI+PI+PI-		10.179	4.332	4.800	.1190		.0200		JUHALA PR184,1461-69	1
	THRESHOLD	4.44	1.27	1.70						
..... REACTION 138										
NK*0890PI-=NK-PI+PI-		6.829	2.547	3.000	.1700		.0200		HABER,NPB17,289-70	
	THRESHOLD	3.88	.98	1.38						
..... REACTION 139										
NDELK-=NK-PI+PI+PI-		10.179	4.332	4.800	.0240		.0080		JUHALA PR184,1461-69	1
	THRESHOLD	5.82	2.01	2.45						

FOOTNOTES

$=DATA POINT NOT USED IN FITTING OR PLOTTING
*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 140										
NK*01400	6.802	2.532	2.985		.2100		.0600		FOCARDI PL16,351-65	*
	7.757	3.041	3.500		.7700		.1200		MUSGRAVE RPP/H/29-67	*
	8.873	3.636	4.100		.4500		.0900		SCHWEIN.PR166,1317-68	*
	9.750	4.103	4.570		.7100		.0900		KANG PR176,1587-68	*
	11.487	5.028	5.500		.2350		.0450		SCHWEI. PR166,1317-68	*
	12.421	5.526	6.000		.3300		.0900		CCLLEY NC59A,519-69	*
	20.100	9.618	10.100		.0780		.0140		ADERHOLZ NPB7,111-68	
THRESHOLD	5.48	1.83	2.27						7 DATA POINTS LISTED	
					FIT OF SIGMA AGAINST PLAB GEV/C					
					5 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .32					
					K = 20.91 +- 18.28 N = -2.42 +- .50					
..... REACTION 141										
NK*01400=NK-PI+	6.201	2.212	2.660		.0950		.0250		FICENEC PR175,1725-68	1
	6.802	2.532	2.985		.0690		.0280		FOCARDI PL16,351-65	
	8.873	3.636	4.100		.2140		.0330		SCHWEIN.PR166,1317-68	
	9.750	4.103	4.570		.2360		.0280		KANG PR176,1587-68	
	11.487	5.028	5.500		.1140		.0210		SCHWEIN.PR166,1317-68	
THRESHOLD	5.48	1.83	2.27						5 DATA POINTS LISTED	
..... REACTION 142										
NK*01400=NK0PI+PI-	8.873	3.636	4.100		.1190		.0260		SCHWEIN.PR166,1317-68	
	11.487	5.028	5.500		.0480		.0090		SCHWEIN.PR166,1317-68	
THRESHOLD	5.48	1.83	2.27						2 DATA POINTS LISTED	
..... REACTION 143										
NK*01400=NK0PI+PI-(DIRECT)	8.873	3.636	4.100	U	.0330				SCHWEIN.PR166,1317-68	
	11.487	5.028	5.500	U	.0100				SCHWEIN.PR166,1317-68	
THRESHOLD	5.47	1.82	2.26						2 DATA POINTS LISTED	
..... REACTION 144										
NK*01400=N(KPI)0	7.757	3.041	3.500		.5000		.0800		MUSGRAVE RPP/H/29-67	
	20.100	9.618	10.100		5.4000	MICROB	5.0000		ABCLV AMSTERDAM-71	
	8.873	3.636	4.100		.3020		.0550		DAVIS BER66	
	11.487	5.028	5.500		.1760		.0410		DAVIS BER66	
THRESHOLD	5.48	1.83	2.27						4 DATA POINTS LISTED	
..... REACTION 145										
NK*01400=NRH0K0	8.873	3.636	4.100		.0360		.0270		SCHWEIN.PR166,1317-68	
	11.487	5.028	5.500		.0110		.0080		SCHWEIN.PR166,1317-68	
THRESHOLD	5.48	1.83	2.27						2 DATA POINTS LISTED	
..... REACTION 146										
NK*01400=NK*-890PI+=NK02PI	8.873	3.636	4.100		.0830		.0200		SCHWEI. PR166,1317-68	
	11.487	5.028	5.500		.0330		.0050		SCHWEI. PR166,1317-68	
	12.421	5.526	6.000		.0800		.0200		CCLLEY NC59A,519-69	
THRESHOLD	5.47	1.82	2.26						3 DATA POINTS LISTED	
..... REACTION 147										
NK*01400=NK*890PI	7.757	3.041	3.500		.1600		.0600		MUSGRAVE RPP/H/29-67	
THRESHOLD	5.47	1.82	2.26							
..... REACTION 148										
NK*01790=NK0PI+PI-	12.421	5.526	6.000	U	.0500				CCLLEY NC59A,519-69	
THRESHOLD	7.45	2.88	3.34							
..... REACTION 149										
NK*01790=NK*(+,-)890PI	12.421	5.526	6.000	U	.0200				CCLLEY NC59A,519-69	
THRESHOLD	7.45	2.88	3.33							
..... REACTION 150										
N***1236K-PI-	4.990	1.566	2.000		.2750		.0150		DAUBER PR153,1403-67	
	5.429	1.800	2.240		.0890		.0220		LONDON PR143,1034-66	
	7.757	3.041	3.500		.4200		.0500		MUSGRAVE RPP/H/29-67	
	12.421	5.526	6.000		.2800		.0500		PALER NPB10,221-69	
THRESHOLD	3.50	.77	1.16						4 DATA POINTS LISTED	
..... REACTION 151										
N***1236K-PI-PI0	10.179	4.332	4.800		.1200		.0220		JUHALA PR184,1461-69	1
THRESHOLD	4.04	1.06	1.47							
..... REACTION 152										
N***1236K0PI-PI-	12.421	5.526	6.000		.0350		.0120		GOLDSACK,NPB29,529-71	
THRESHOLD	4.04	1.06	1.47							
..... REACTION 153										
N***1236K0PI-PI-PI0	12.421	5.526	6.000		.0770		.0190		GOLDSACK,NPB29,529-71	
THRESHOLD	4.62	1.37	1.80							
..... REACTION 154										
N***1236K*-890PI-(K*=K0PI)	12.421	5.526	6.000		.0540		.0130		GOLDSACK,NPB29,529-71	
THRESHOLD	5.13	1.64	2.08							
..... REACTION 155										
N***K*-PI-PI0(K*-=K0PI-)	12.421	5.526	6.000		6.0000	MICROB	19.0000		GOLDSACK,NPB29,529-71	
THRESHOLD	5.76	1.98	2.42							

FOOTNOTES

*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
1=AVERAGE VALUE OVER A BAND OF MOMENTA
U=UPPER LIMIT

K-P

		S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 156										
N*+1236K-		3.786	.925	1.330	.2200		.0430		FICENEC PR169,1034-68	*
		4.899	1.518	1.950	0.0000	MICROB	300.0000		SMITH,380,ATHENS65	$
		6.201	2.212	2.660	.7100		.0500		FICENEC PR175,1725-68	*
		6.829	2.547	3.000	.3650		.1000		BADIER CEA R3037-66	
		8.873	3.636	4.100	.0660		.0600		SCHWEIN.PR166,1317-68	*
		11.487	5.028	5.500	.0630		.0600		SCHWEIN.PR166,1317-68	*
		20.100	9.618	10.100	.0350		.0040		ADERHOLZ NPB7,111-68	
	THRESHOLD	2.99	.50	.86					7 DATA POINTS LISTED	
..... REACTION 157										
N*+1236K-=PK-PI0		3.786	.925	1.330	.1900		.0300		FICENEC PR169,1034-68	
		6.201	2.212	2.660	.3520		.0330		FICENEC PR175,1725-68	1
	THRESHOLD	2.99	.50	.86					2 DATA POINTS LISTED	
..... REACTION 158										
N*+1236K-=NK-PI+		3.786	.925	1.330	.0300		.0300		FICENEC PR169,1034-68	
		6.201	2.212	2.660	.3550		.0350		FICENEC PR175,1725-68	1
		8.873	3.636	4.100	.0220		.0200		SCHWEIN.PR166,1317-68	
		11.487	5.028	5.500	.0210		.0200		SCHWEIN.PR166,1317-68	
	THRESHOLD	2.99	.50	.86					4 DATA POINTS LISTED	
..... REACTION 159										
N*+1236K-PI+PI-=PK-2PIPI0		10.179	4.332	4.800	.0660		.0220		JUHALA PR184,1461-69	1
	THRESHOLD	4.03	1.06	1.47						
..... REACTION 160										
N*+1236K-PI+PI-=NK-2PI+PI-		10.179	4.332	4.800	.0290		.0090		JUHALA PR184,1461-69	1
	THRESHOLD	4.04	1.06	1.47						
..... REACTION 161										
N*+1236K0PI-		5.429	1.800	2.240	.1360		.0280		LONDON PR143,1034-66	
		7.757	3.041	3.500	.3500		.0800		MUSGRAVE RPP/H/29-67	
	THRESHOLD	3.50	.77	1.16					2 DATA POINTS LISTED	
..... REACTION 162										
N*+1236K0PI-=PK0PI-PI0		12.421	5.526	6.000	.0650		.0200		COLLEY NC59A,519-69	
	THRESHOLD	3.50	.77	1.16						
..... REACTION 163										
N*+1236K0PI-=NK0PI+PI-		12.421	5.526	6.000	.0850		.0300		COLLEY NC59A,519-69	
	THRESHOLD	3.50	.77	1.16						
..... REACTION 164										
N*+1236K*-890		6.829	2.547	3.000	.3500		.1320		BADIER CEA R3037-66	
	THRESHOLD	4.52	1.32	1.74						
..... REACTION 165										
N*+1236K*-890=PK0PI-PI0		6.829	2.547	3.000	.1770		.0390		COLTON,NPB17,117-70	
		12.421	5.526	6.000	.0450		.0250		COLLEY NC59A,519-69	
	THRESHOLD	4.52	1.32	1.74					2 DATA POINTS LISTED	
..... REACTION 166										
N*+1236K*-890=NK0PI+PI-		6.829	2.547	3.000	.0690		.0310		COLTON,NPB17,117-70	
		12.421	5.526	6.000	.0250		.0200		COLLEY NC59A,519-69	
	THRESHOLD	4.52	1.32	1.74					2 DATA POINTS LISTED	
..... REACTION 167										
N*+1236K*-890=N*+K0PI-		4.627	1.373	1.800	.1100		.0900		SMITH,380,ATHENS65	
		4.899	1.518	1.950	.3500		.1100		SMITH,380,ATHENS65	
	THRESHOLD	4.52	1.32	1.74					2 DATA POINTS LISTED	
..... REACTION 168										
N*+1236K*-PI+PI-(K*=K0PI-)		12.421	5.526	6.000	.0180		.0200		GOLDSACK,NPB29,529-71	
	THRESHOLD	5.79	1.99	2.44						
..... REACTION 169										
N*-1236K-PI+=NK-PI+PI-		6.829	2.547	3.000	.1400		.0200		HABER,NPB17,289-70	
	THRESHOLD	3.50	.77	1.16						
..... REACTION 170										
N*-1236K-PI+PI+=NK-2PI+PI-		10.179	4.332	4.800	.0700		.0120		JUHALA PR184,1461-69	1
	THRESHOLD	4.04	1.06	1.47						
..... REACTION 171										
N*-1236K0PI+		5.429	1.800	2.240	.0390		.0190		LONDON PR143,1034-66	
		7.757	3.041	3.500	.1600		.0400		MUSGRAVE RPP/H/29-67	
		12.421	5.526	6.000	.0250		.0150		COLLEY NC59A,519-69	
	THRESHOLD	3.50	.77	1.16					3 DATA POINTS LISTED	
..... REACTION 172										
N*-1236K0PI+PI+PI-		12.421	5.526	6.000	.0360		.0250		GOLDSACK,NPB29,529-71	
	THRESHOLD	4.62	1.37	1.80						
..... REACTION 173										
N*-1236K*0890=NK-PI+PI-		6.829	2.547	3.000	.9300		.0700		HABER,NPB17,289-70	
	THRESHOLD	4.52	1.32	1.74						

FOOTNOTES

*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
$=DATA POINT NOT USED IN FITTING OR PLOTTING
1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

	S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	REFERENCE	FOOT-NOTES
..... REACTION 174							
N*01236K-PI+	7.757	3.041	3.500	.2800	.1200	MUSGRAVE RPP/H/29-67	
THRESHOLD	3.50	.77	1.16				
..... REACTION 175							
N*01236K-PI+=PK-PI+PI-	4.990	1.566	2.000	.0360	.0110	DAUBER PR153,1403-67	
	12.421	5.526	6.000	.1500	.0600	COLLEY NC59A,519-69	
THRESHOLD	3.50	.77	1.16			2 DATA POINTS LISTED	
..... REACTION 176							
N*01236K0	3.786	.925	1.330	.1500	.0600	FICENEC PR169,1034-68	*
	4.627	1.373	1.800	.3600	.1200	SMITH,380,ATHENS65	*
	4.899	1.518	1.950	.6300	.1500	SMITH,380,ATHENS65	*
	5.429	1.800	2.240	.2100	.0950	GALLOWAY NPB8,545-68	
	6.829	2.547	3.000	.3350	.0610	BADIER CEA R3037-66	
	8.873	3.636	4.100	.0360	.0360	SCHWEIN.PR166,1317-68	*
	11.487	5.028	5.500	.0450	.0150	SCHWEIN.PR166,1317-68	*
THRESHOLD	2.99	.50	.86			7 DATA POINTS LISTED	
..... REACTION 177							
N*01236K0=PK0PI-	3.786	.925	1.330	.0500	.0200	FICENEC PR169,1034-68	
	4.627	1.373	1.800	.1200	.0400	SMITH,380,ATHENS65	
	4.899	1.518	1.950	.2100	.0500	SMITH,380,ATHENS65	
	6.829	2.547	3.000	.1000	.0400	BARLOUTA. PL12,352-64	
	8.873	3.636	4.100	.0120	.0120	SCHWEIN.PR166,1317-68	
	11.487	5.028	5.500	.0150	.0050	SCHWEIN.PR166,1317-68	
THRESHOLD	2.99	.50	.86			6 DATA POINTS LISTED	
..... REACTION 178							
N*01236K0PI0=PK0PI-PI0	12.421	5.526	6.000	.0400	.0150	COLLEY NC59A,519-69	
THRESHOLD	3.50	.77	1.16				
..... REACTION 179							
N*01236K*0890	6.829	2.547	3.000	.3500	.1320	BADIER CEA R3037-66	
THRESHOLD	4.52	1.32	1.74				
..... REACTION 180							
N*01236K*0890=PK-PI+PI-	4.899	1.518	1.950	.1100	.0400	SMITH,380,ATHENS65	
	4.990	1.566	2.000	.1250	.0110	DAUBER PR153,1403-67	
	6.829	2.547	3.000	.0750	.0190	COLTON,NPB17,117-70	
THRESHOLD	4.52	1.32	1.74			3 DATA POINTS LISTED	
..... REACTION 181							
N*01236K*0890=PK0PI-PI0	6.829	2.547	3.000	.0310	.0310	COLTON,NPB17,117-70	
THRESHOLD	4.52	1.32	1.74				
..... REACTION 182							
N*1236K	3.786	.925	1.330	.3800	.0600	FICENEC PR169,1034-68	A
THRESHOLD	2.99	.50	.86				
..... REACTION 183							
N*(0,+)K*(0,-)890	7.757	3.041	3.500	.4600	.1600	MUSGRAVE RPP/H/29-67	
THRESHOLD	4.52	1.32	1.74				
..... REACTION 184							
N+1400K-=NK-PI+	6.201	2.212	2.660	.0510	.0470	FICENEC PR175,1725-68	1
THRESHOLD	3.59	.82	1.22				
..... REACTION 185							
N+1525K*-890=(P/N)PIK0PI-	6.829	2.547	3.000	1.0200	.1300	BADIER,650,DUB64	
THRESHOLD	5.83	2.02	2.46				
..... REACTION 186							
N01525K*0890=PK(0,-)PIPI-	6.829	2.547	3.000	.4350	.1100	BADIER,650,DUB64	
THRESHOLD	5.83	2.02	2.46				
..... REACTION 187							
N+1688K-=PK-PI+PI-	4.990	1.566	2.000	.0630	.0190	DAUBER PR153,1403-67	
THRESHOLD	4.76	1.44	1.87				
..... REACTION 188							
N+1688K-=NK-PI+	6.201	2.212	2.660	.0610	.0240	FICENEC PR175,1725-68	1
THRESHOLD	4.76	1.44	1.87				
..... REACTION 189							
N+1688K*-890	7.757	3.041	3.500	.2800	.0900	MUSGRAVE RPP/H/29-67	
THRESHOLD	6.65	2.45	2.90				
..... REACTION 190							
N01688K0=PK0PI-	6.201	2.212	2.660	.0970	.0390	FICENEC PR175,1725-68	1
THRESHOLD	4.76	1.44	1.87				
..... REACTION 191							
N01688K*0890	7.757	3.041	3.500	.1400	.1000	MUSGRAVE RPP/H/29-67	
THRESHOLD	6.65	2.45	2.90				
..... REACTION 192							
LPAP	20.100	9.618	10.100	6.1000 MICROB	1.1000	ABCLV AMSTERDAM-71	
THRESHOLD	8.96	3.68	4.15				

FOOTNOTES

*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
A=SUM OF ALL FINAL STATES WHICH INCLUDE THE GIVEN PARTICLES
1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

		S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 193											
LPPI+PI-AP		20.100	9.618	10.100		6.5000	MICROB	1.6000		ABCLV AMSTERDAM-71	
		24.786	12.116	12.600	U	1.9000	MICROB			LACH BAPS12,540-67	
	THRESHOLD	10.70	4.61	5.08						2 DATA POINTS LISTED	
..... REACTION 194											
LPK+K-AP		24.786	12.116	12.600	U	1.9000	MICROB			LACH BAPS12,540-67	
	THRESHOLD	15.83	7.34	7.82							
..... REACTION 195											
LLAL		20.100	9.618	10.100		1.0000	MICROB	ERROR NOT GIVEN		BARTSCH NPB4,326-68	A
	THRESHOLD	11.19	4.87	5.34							
..... REACTION 196											
LPIO		2.202	.080	.293		5.2000		.9000		FERRO-LUZ. PRL8,28-62	
		2.208	.084	.300		4.8000		2.6000		NORDIN PR123,2168-61	
		2.260	.111	.350		4.5000		1.0000		FERRO-LUZ. PRL8,28-62	
		2.260	.111	.350		5.6000		.7000		BERLEY,PR1,1996-70	
		2.282	.123	.370		5.7000		.6000		BERLEY,PR1,1996-70	
		2.305	.135	.390		4.5000		.7000		BERLEY,PR1,1996-70	
		2.305	.135	.390		5.7000		.6000		BERLEY,PR1,1996-70	
		2.305	.135	.390		3.1000		.3000		FERRO-LUZ. PRL8,28-62	
		2.317	.142	.400		5.4000		2.2000		NORDIN PR123,2168-61	
		2.329	.148	.410		4.8000		.5000		BERLEY,PR1,1996-70	
		2.353	.161	.430		4.2000		.6000		BERLEY,PR1,1996-70	
		2.358	.164	.434		3.2000		.7000		FERRO-LUZ. PRL8,28-62	
		2.360	.165	.436		3.5200		.7000		ARMENTER. NPB21,15-70	
		2.384	.178	.455		4.0300		.4500		ARMENTER. NPB21,15-70	
		2.410	.191	.475		2.9700		.3000		ARMENTER. NPB21,15-70	
		2.436	.205	.495		3.2600		.3800		ARMENTER. NPB21,15-70	
		2.460	.218	.513		1.9000		.4000		FERRO-LUZ. PRL8,28-62	
		2.462	.219	.514		2.6900		.3700		ARMENTER. NPB21,15-70	
		2.489	.234	.534		2.9100		.4300		ARMENTER. NPB21,15-70	
		2.517	.248	.554		3.0900		.3400		ARMENTER. NPB21,15-70	
		2.544	.263	.573		2.4100		.3200		ARMENTER. NPB21,15-70	
		2.574	.279	.594		2.7800		.5500		BERTAN. PR177,2036-69	
		2.578	.281	.597		2.5700		.2500		ARMENTER. NPB21,15-70	
		2.607	.296	.617		2.3900		.2600		ARMENTER. NPB21,15-70	
		2.612	.299	.620		1.9000		.3000		BASTIEN PRL10,188-63	
		2.637	.312	.637		2.8600		.2400		ARMENTER. NPB21,15-70	
		2.668	.329	.658		2.6100		.2500		ARMENTER. NPB21,15-70	
		2.683	.337	.668		2.5100		.3300		BERTAN. PR177,2036-69	
		2.697	.344	.677		2.7500		.2600		ARMENTER. NPB21,15-70	
		2.730	.362	.699		2.3400		.2400		ARMENTER. NPB21,15-70	
		2.744	.369	.708		2.3800		.4200		BERTAN. PR177,2036-69	
		2.761	.378	.719		3.0800		.3100		ARMENTER. NPB21,15-70	
		2.770	.383	.725		2.5600		.3600		BERTAN. PR177,2036-69	
		2.794	.396	.740		2.9300		.2600		ARMENTER. NPB21,15-70	
		2.795	.397	.741		2.4300		.3800		BERTAN. PR177,2036-69	
		2.825	.413	.760		2.6000		.2000		BASTIEN PRL10,188-63	
		2.827	.413	.761		2.9000		.3000		ARMENTER. NPB21,15-70	
		2.838	.419	.768		2.4600		.5200		BERTAN. PR177,2036-69	
		2.845	.423	.773		3.1000		.3200		ARMENTER. NPB21,15-70	
		2.852	.427	.777		3.1000		.2700		ARMENTER. NPB8,233-68	
		2.877	.440	.793		3.1400		.3300		ARMENTER. NPB21,15-70	
		2.892	.448	.802		2.4300		.5200		BERTAN. PR177,2036-69	
		2.898	.451	.806		2.8000		.2800		ARMENTER. NPB8,233-68	
		2.920	.463	.820		2.5800		.5600		BERTAN. PR177,2036-69	
		2.949	.479	.838		2.7000		.2200		ARMENTER. NPB8,233-68	
		2.969	.489	.850		2.7000		.2000		BASTIEN PRL10,188-63	
		2.974	.492	.853		2.6100		.2000		ARMENTER. NPB8,233-68	
		3.008	.510	.874		3.2300		.2500		ARMENTER. NPB8,233-68	
		3.041	.527	.894		3.2800		.3000		ARMENTER. NPB8,233-68	
		3.057	.536	.904		3.0000		.2700		ARMENTER. NPB8,233-68	
		3.077	.547	.916		3.8300		.3400		ARMENTER. NPB8,233-68	
		3.108	.564	.935		2.9500		.2600		ARMENTER. NPB8,233-68	
		3.140	.580	.954		2.9000		.2300		ARMENTER. NPB8,233-68	
		3.167	.595	.970		3.0600		.1900		ARMENTER. NPB8,233-68	
		3.202	.613	.991		2.9700		.2900		ARMENTER. NPB8,233-68	
		3.254	.641	1.022		2.4800		.2100		ARMENTER. NPB8,233-68	
		3.291	.661	1.044		2.7500		.2600		ARMENTER. NPB8,233-68	
		3.320	.676	1.061		2.1400		.1400		ARMENTER. NPB8,233-68	
		3.353	.694	1.080		2.1500		.2100		ARMENTER. NPB8,233-68	
		3.390	.714	1.102		1.6900		.1500		ARMENTER. NPB8,233-68	
		3.416	.727	1.117		1.5800		.1300		ARMENTER. NPB8,233-68	
		3.445	.743	1.134		1.3900		.1400		ARMENTER. NPB8,233-68	
		3.473	.758	1.150		2.1000		.3500		GRAZIA. PR128,1868-62	
		3.478	.760	1.153		1.4700		.1600		ARMENTER. NPB8,233-68	
		3.514	.780	1.174		1.4700		.1400		ARMENTER. NPB8,233-68	
		3.530	.788	1.183		1.7700		.1600		ARMENTER. NPB8,233-68	
		3.594	.822	1.220		1.5800		.0700		WOHL PRL17,107-66	
		3.604	.828	1.226		.8800		.1600		ARMENTER. NPB8,233-68	
		3.669	.862	1.263		1.2570		.0900		BERTHON,NPB20,476-70	
		3.762	.912	1.316		1.1790		.0730		BERTHON,NPB20,476-70	
		3.786	.925	1.330		1.1200		.1400		TROWER PR170,1207-68	
		3.853	.961	1.368		1.3180		.0880		BERTHON,NPB20,476-70	
		3.936	1.005	1.415		1.1080		.0810		BERTHON,NPB20,476-70	
		3.945	1.010	1.420		1.3700		.0700		WOHL PRL17,107-66	
		4.025	1.052	1.465		1.1770		.0510		BERTHON,NPB20,476-70	
		4.105	1.095	1.510		1.3700		.0600		WOHL PRL17,107-66	
		4.111	1.098	1.513		1.1500		.0620		BERTHON,NPB20,476-70	
		4.168	1.128	1.545		1.0570		.0610		BERTHON,NPB20,476-70	
		4.266	1.181	1.600		1.1000		.0700		WOHL PRL17,107-66	
		4.277	1.186	1.606		.9880		.0660		BERTHON,NPB20,476-70	
		4.360	1.230	1.652		.9470		.0500		BERTHON,NPB20,476-70	
		4.446	1.276	1.700		.9400		.0500		WOHL PRL17,107-66	
		4.455	1.281	1.705		.8100		.0510		BERTHON,NPB20,476-70	
		4.482	1.296	1.720		.9300		.0800			
		4.516	1.314	1.739		.6620		.0430		BERTHON,NPB20,476-70	

FOOTNOTES

U=UPPER LIMIT
A=SUM OF ALL FINAL STATES WHICH INCLUDE THE GIVEN PARTICLES

K-P

		S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 196									
LPIO		4.627	1.373	1.800	.6400	.0500		SMITH,380,ATHENS65	
(CONTINUATION)		4.627	1.373	1.800	.7750	.0550		BERTHON,NPB2C,476-70	
		4.705	1.414	1.843	.5550	.0430		BERTHON,NPB2C,476-70	
		4.899	1.518	1.950	.5300	.0500		SMITH,380,ATHENS65	
		6.829	2.547	3.000	.1380	.0150		MERRILL,NPB18,403-70	
		7.757	3.041	3.500	.1150	.0400		HAQUE PR152,1148-66	
		12.421	5.526	6.000	.0240	.0060		CCLLEY NC53A,522-68	
		20.100	9.618	10.100	.0240	.0070		ABCLV AMSTERDAM-71	
	THRESHOLD	1.58	0.00	0.00				93 DATA POINTS LISTED	
..... REACTION 197									
LPIOPIO		2.202	.080	.293	.3000	.2000		FERRO-LUZ. PRL8,28-62	
		2.260	.111	.350	1.9000	.6000		FERRO-LUZ. PRL8,28-62	
		2.305	.135	.390	1.5000	.2000		FERRO-LUZ. PRL8,28-62	
		2.358	.164	.434	.8000	.4000		FERRO-LUZ. PRL8,28-62	
		2.460	.218	.513	1.1000	.3000		FERRO-LUZ. PRL8,28-62	
	THRESHOLD	1.95	0.00	0.00				5 DATA POINTS LISTED	
..... REACTION 198									
LZO		2.360	.165	.436	1.5400	.3300		ARMENTER. NPB21,15-70	
		2.384	.178	.455	.7800	.2100		ARMENTER. NPB21,15-70	
		2.410	.191	.475	.8400	.1600		ARMENTER. NPB21,15-70	
		2.436	.205	.495	.7600	.1900		ARMENTER. NPB21,15-70	
		2.462	.219	.514	.9600	.1800		ARMENTER. NPB21,15-70	
		2.489	.234	.534	.7800	.2200		ARMENTER. NPB21,15-70	
		2.517	.248	.554	.9500	.1700		ARMENTER. NPB21,15-70	
		2.544	.263	.573	1.0300	.1800		ARMENTER. NPB21,15-70	
		2.578	.281	.597	1.0700	.1400		ARMENTER. NPB21,15-70	
		2.607	.296	.617	.8900	.1400		ARMENTER. NPB21,15-70	
		2.637	.312	.637	.6900	.1200		ARMENTER. NPB21,15-70	
		2.668	.329	.658	.9700	.1300		ARMENTER. NPB21,15-70	
		2.697	.344	.677	.7200	.1200		ARMENTER. NPB21,15-70	
		2.730	.362	.699	.5500	.1200		ARMENTER. NPB21,15-70	
		2.761	.378	.719	.8400	.1500		ARMENTER. NPB21,15-70	
		2.794	.396	.740	.8200	.1300		ARMENTER. NPB21,15-70	
		2.825	.413	.760	6.0000	.4000		BASTIEN,PRL8,114,61	
		2.827	.413	.761	.6800	.1500		ARMENTER. NPB21,15-70	
		2.845	.423	.773	1.1000	.1700		ARMENTER. NPB21,15-70	
		2.852	.427	.777	2.2100	.1600		ARMENTER. NPB8,233-68	
		2.877	.440	.793	.9600	.1700		ARMENTER. NPB21,15-70	
		2.898	.451	.806	1.3200	.0700		ARMENTER. NPB8,233-68	
		2.949	.479	.838	1.2700	.1100		ARMENTER. NPB8,233-68	
		2.969	.489	.850	4.1000	.4000		BASTIEN,PRL8,114,61	
		2.974	.492	.853	1.1600	.0600		ARMENTER. NPB8,233-68	
		3.008	.510	.874	1.5400	.1100		ARMENTER. NPB8,233-68	
		3.041	.527	.894	1.7500	.1300		ARMENTER. NPB8,233-68	
		3.057	.536	.904	1.6900	.1400		ARMENTER. NPB8,233-68	
		3.077	.547	.916	2.1000	.1700		ARMENTER. NPB8,233-68	
		3.108	.564	.935	2.0100	.1700		ARMENTER. NPB8,233-68	
		3.140	.580	.954	1.9400	.1300		ARMENTER. NPB8,233-68	
		3.167	.595	.970	2.1200	.1200		ARMENTER. NPB8,233-68	
		3.202	.613	.991	2.2400	.2000		ARMENTER. NPB8,233-68	
		3.254	.641	1.022	2.3500	.1600		ARMENTER. NPB8,233-68	
		3.291	.661	1.044	2.7600	.2200		ARMENTER. NPB8,233-68	
		3.320	.676	1.061	2.6800	.1400		ARMENTER. NPB8,233-68	
		3.353	.694	1.080	2.5800	.1900		ARMENTER. NPB8,233-68	
		3.390	.714	1.102	1.5700	.0900		ARMENTER. NPB8,233-68	
		3.416	.727	1.117	1.9800	.1300		ARMENTER. NPB8,233-68	
		3.445	.743	1.134	1.7700	.1400		ARMENTER. NPB8,233-68	
		3.478	.760	1.153	2.2500	.1800		ARMENTER. NPB8,233-68	
		3.514	.780	1.174	3.1100	.2400		ARMENTER. NPB8,233-68	
		3.530	.788	1.183	2.0100	.1400		ARMENTER. NPB8,233-68	
		3.604	.828	1.226	1.6600	.2000		ARMENTER. NPB8,233-68	
		20.100	9.618	10.100	.2900	.0660		ABCLV AMSTERDAM-71	
	THRESHOLD	1.95	0.00	0.00				45 DATA POINTS LISTED	
..... REACTION 199									
LPI+PI-		2.202	.080	.293	.1500	.1000		FERRO-LUZ. PRL8,28-62	
		2.208	.084	.300	.9000	.9000		NORDIN PR123,2168-61	
		2.260	.111	.350	.9000	.3000		FERRO-LUZ. PRL8,28-62	
		2.305	.135	.390	1.6000	.2000		FERRO-LUZ. PRL8,28-62	
		2.317	.142	.400	1.1000	.8000		NORDIN PR123,2168-61	
		2.358	.164	.434	1.5000	.4000		FERRO-LUZ. PRL8,28-62	
		2.360	.165	.436	1.4800	.2600		ARMENTER. NPB21,15-70	
		2.384	.178	.455	1.2300	.1400		ARMENTER. NPB21,15-70	
		2.410	.191	.475	1.3500	.1300		ARMENTER. NPB21,15-70	
		2.436	.205	.495	1.5200	.1500		ARMENTER. NPB21,15-70	
		2.460	.218	.513	2.0000	.4000		FERRO-LUZ. PRL8,28-62	
		2.462	.219	.514	1.6200	.1600		ARMENTER. NPB21,15-70	
		2.489	.234	.534	1.5600	.1800		ARMENTER. NPB21,15-70	
		2.517	.248	.554	1.7700	.1500		ARMENTER. NPB21,15-70	
		2.544	.263	.573	1.6300	.1500		ARMENTER. NPB21,15-70	
		2.574	.279	.594	2.1000	.3000		BERTAN. PR177,2036-69	
		2.578	.281	.597	1.8200	.1300		ARMENTER. NPB21,15-70	
		2.607	.296	.617	1.8500	.1300		ARMENTER. NPB21,15-70	
		2.612	.299	.620	1.7000	.3000		BASTIEN PRL10,188-63	
		2.637	.312	.637	1.7300	.1200		ARMENTER. NPB21,15-70	
		2.656	.322	.650	2.3000	.5000		BERTAN. PR177,2036-69	
		2.668	.329	.658	2.0400	.1400		ARMENTER. NPB21,15-70	
		2.683	.337	.668	2.2000	.4000		BERTAN. PR177,2036-69	
		2.697	.344	.677	2.1200	.1500		ARMENTER. NPB21,15-70	
		2.730	.362	.699	2.2800	.1600		ARMENTER. NPB21,15-70	
		2.744	.369	.708	3.0000	.3500		BERTAN. PR177,2036-69	
		2.761	.378	.719	2.8000	.2000		ARMENTER. NPB21,15-70	
		2.794	.396	.740	2.9400	.1800		ARMENTER. NPB21,15-70	
		2.795	.397	.741	3.1900	.3000		BERTAN. PR177,2036-69	
		2.825	.413	.760	4.3000	.3000		BASTIEN PRL10,188-63	
		2.827	.413	.761	3.0200	.2000		ARMENTER. NPB21,15-70	

K-P

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 199									
LPI+PI-	2.838	.419	.768	3.6400		.3000		BERTAN. PR177,2036-69	
(CONTINUATION)	2.845	.423	.773	3.1000		.2CCC		ARMENTER. NPB21,15-70	
	2.852	.427	.777	2.9400		.2800		ARMENTER. NPB8,233-68	
	2.877	.440	.793	3.4400		.2300		ARMENTER. NPB21,15-70	
	2.892	.448	.802	3.9700		.3000		BERTAN. PR177,2036-69	
	2.898	.451	.806	3.2800		.3300		ARMENTER. NPB8,233-68	
	2.920	.463	.820	3.2600		.35CC		BERTAN. PR177,2036-69	
	2.949	.479	.838	2.7800		.3300		ARMENTER. NPB8,233-68	
	2.969	.489	.850	3.5000		.3000		BASTIEN PRL10,188-63	
	2.974	.492	.853	3.3300		.2500		ARMENTER. NPB8,233-68	
	3.008	.510	.874	3.8100		.2300		ARMENTER. NPB8,233-68	
	3.041	.527	.894	3.8800		.32CC		ARMENTER. NPB8,233-68	
	3.057	.536	.904	3.5600		.2300		ARMENTER. NPB8,233-68	
	3.077	.547	.916	3.5000		.2700		ARMENTER. NPB8,233-68	
	3.108	.564	.935	3.7800		.23CC		ARMENTER. NPB8,233-68	
	3.140	.580	.954	3.6000		.3000		ARMENTER. NPB8,233-68	
	3.167	.595	.970	3.4800		.2100		ARMENTER. NPB8,233-68	
	3.202	.613	.991	3.7700		.2100		ARMENTER. NPB8,233-68	
	3.254	.641	1.022	3.7000		.2600		ARMENTER. NPB8,233-68	
	3.291	.661	1.044	4.5000		.3400		ARMENTER. NPB8,233-68	
	3.320	.676	1.061	4.1100		.2600		ARMENTER. NPB8,233-68	
	3.353	.694	1.080	3.8300		.3000		ARMENTER. NPB8,233-68	
	3.390	.714	1.102	3.4100		.2600		ARMENTER. NPB8,233-68	
	3.416	.727	1.117	3.2800		.23CC		ARMENTER. NPB8,233-68	
	3.445	.743	1.134	3.0300		.2600		ARMENTER. NPB8,233-68	
	3.473	.758	1.150	3.1000		.4000		GRAZIA. PR128,1868-62	S
	3.478	.760	1.153	3.1000		.28CC		ARMENTER. NPB8,233-68	
	3.514	.780	1.174	3.2400		.33CC		ARMENTER. NPB8,233-68	
	3.530	.788	1.183	3.3800		.2800		ARMENTER. NPB8,233-68	
	3.594	.822	1.220	2.7800		.1700		HUWE PR181,1824-69	
	3.604	.828	1.226	3.1400		.48CC		ARMENTER. NPB8,233-68	
	3.769	.916	1.32C	2.6600		.16CC		HUWE PR181,1824-69	
	3.786	.925	1.330	2.4800		.25CC		TROWER PR170,1207-68	
	3.786	.925	1.330	2.4800		.25CC		GORDON NC61A,353-69	
	3.945	1.010	1.420	2.4400		.18CC		HUWE PR181,1824-69	
	4.034	1.057	1.470	2.0000		.3CCC		COOPER,298,CERN62	
	4.105	1.095	1.510	2.3200		.1200		HUWE PR181,1824-69	
	4.266	1.181	1.600	2.0900		.1400		HUWE PR181,1824-69	
	4.428	1.267	1.690	1.9800		.12CC		HUWE PR181,1824-69	
	5.429	1.800	2.240	.9340		.0550		LONDON PR143,1034-66	
	5.814	2.005	2.450	.6800		.0400		ROSS,642,DUB64	
	6.829	2.547	3.000	.5050		.0400		MERRILL,NPB18,403-70	
	7.757	3.041	3.500	.3300		ERROR NOT GIVEN		HAQUE,654,DUB64	
	8.873	3.636	4.100	.3050		.0530		MOTT PR177,1966-69	
	11.487	5.028	5.500	.1350		.0120		MOTT PR177,1966-69	
	12.421	5.526	6.000	.0760		.0150		SISTERSON NPB6,205-68	
	20.100	9.618	10.100	.0420		.CC40		ABCLV AMSTERDAM-71	
THRESHOLD	1.95	0.00	0.00					78 DATA POINTS LISTED	
..... REACTION 200									
LPI+PI- (NON RESONANT)	3.611	.832	1.230	.2400		.1500		HUWE PR181,1824-69	1
	3.786	.925	1.330	.8200		.14CC		GORDON NC61A,353-69	
	3.857	.962	1.370	.0500		.1700		HUWE PR181,1824-69	1
	4.141	1.114	1.530	.3500		.1500		HUWE PR181,1824-69	1
	4.392	1.248	1.670	.8700		.1600		HUWE PR181,1824-69	1
THRESHOLD	1.95	0.00	0.00					5 DATA POINTS LISTED	
..... REACTION 201									
LPI+PI-PIO	2.360	.165	.436	0.0000	MICROB	10.0000		ARMENTER. NPB21,15-70	$
	2.384	.178	.455	0.0000	MICROB	10.0000		ARMENTER. NPB21,15-70	$
	2.410	.191	.475	0.0000	MICROB	10.0000		ARMENTER. NPB21,15-70	$
	2.436	.205	.495	0.0000	MICROB	10.0000		ARMENTER. NPB21,15-70	$
	2.462	.219	.514	0.0000	MICROB	10.0000		ARMENTER. NPB21,15-70	$
	2.489	.234	.534	0.0000	MICROB	10.0000		ARMENTER. NPB21,15-70	$
	2.517	.248	.554	0.0000	MICROB	10.0000		ARMENTER. NPB21,15-70	$
	2.544	.263	.573	0.0000	MICROB	10.0000		ARMENTER. NPB21,15-70	$
	2.574	.279	.594	0.0000	MICROB	60.0000		BERTAN. PR177,2036-69	$
	2.578	.281	.597	0.0000	MICROB	10.0000		ARMENTER. NPB21,15-70	$
	2.607	.296	.617	0.0000	MICROB	10.0000		ARMENTER. NPB21,15-70	$
	2.612	.299	.620	0.0000	MICROB	30.0000		BASTIEN PRL10,188-63	$
	2.637	.312	.637	.0100		.0100		ARMENTER. NPB21,15-70	
	2.656	.322	.650	0.0000	MICROB	100.0000		BERTAN. PR177,2036-69	$
	2.668	.329	.658	0.0000	MICROB	10.0000		ARMENTER. NPB21,15-70	$
	2.683	.337	.668	0.0000	MICROB	50.0000		BERTAN. PR177,2036-69	$
	2.697	.344	.677	.0100		.0100		ARMENTER. NPB21,15-70	
	2.730	.362	.699	.0100		.01CC		ARMENTER. NPB21,15-70	
	2.744	.369	.708	0.0000	MICROB	60.CCCC		BERTAN. PR177,2036-69	$
	2.761	.378	.719	.0900		.0300		ARMENTER. NPB21,15-70	
	2.770	.383	.725	.0800		.0300		BERTAN. PR177,2036-69	
	2.794	.396	.740	.1700		.0300		ARMENTER. NPB21,15-70	
	2.795	.397	.741	.3200		.08CC		BERTAN. PR177,2036-69	
	2.825	.413	.760	.2500		.05CC		BASTIEN PRL10,188-63	
	2.827	.413	.761	.2300		.0400		ARMENTER. NPB21,15-70	
	2.838	.419	.768	.3200		.C7CC		BERTAN. PR177,2036-69	
	2.845	.423	.773	.14CC		.C3CC		ARMENTER. NPB21,15-70	
	2.852	.427	.777	.1300		.0500		BURKHARD,NPB14,106-70	
	2.877	.440	.793	.0900		.0300		ARMENTER. NPB21,15-70	
	2.892	.448	.802	.1400		.05CC		BERTAN. PR177,2036-69	
	2.898	.451	.806	.0900		.C4CC		ARMENTER. NPB8,233-68	
	2.898	.451	.806	.0900		.0400		BURKHARD,NPB14,106-70	
	2.920	.463	.820	.1000		.0400		BERTAN. PR177,2036-69	
	2.949	.479	.838	.0500		.03CC		BURKHARD,NPB14,106-70	
	2.969	.489	.850	.1500		.05CC		BASTIEN PRL10,188-63	
	2.974	.492	.853	.1000		.0300		BURKHARD,NPB14,106-70	
	3.008	.510	.874	.1300		.0300		BURKHARD,NPB14,106-70	
	3.041	.527	.894	.2600		.06CC		BURKHARD,NPB14,106-70	
	3.057	.536	.904	.3100		.05CC		BURKHARD,NPB14,106-70	
	3.077	.547	.916	.2900		.0600		BURKHARD,NPB14,106-70	
	3.108	.564	.935	.3100		.0500		BURKHARD,NPB14,106-70	

FOOTNOTES

S=STATISTICAL ERROR ONLY
1=AVERAGE VALUE OVER A BAND OF MOMENTA
$=DATA POINT NOT USED IN FITTING OR PLOTTING

K-P

		S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 201										
LPI+PI-PIO		3.140	.580	.954	.2600		.0600		BURKHARD,NPB14,106-70	
(CONTINUATION)		3.167	.595	.970	.2800		.0500		BURKHARD,NPB14,106-70	
		3.202	.613	.991	.3400		.0500		BURKHARD,NPB14,106-70	
		3.254	.641	1.022	.4500		.0700		BURKHARD,NPB14,106-70	
		3.291	.661	1.044	.3800		.0700		BURKHARD,NPB14,106-70	
		3.320	.676	1.061	.3700		.0600		BURKHARD,NPB14,106-70	
		3.353	.694	1.080	.3100		.0600		BURKHARD,NPB14,106-70	
		3.390	.714	1.102	.3300		.0600		BURKHARD,NPB14,106-70	
		3.416	.727	1.117	.3100		.0500		BURKHARD,NPB14,106-70	
		3.445	.743	1.134	.3600		.0900		BURKHARD,NPB14,106-70	
		3.478	.760	1.153	.3400		.0700		BURKHARD,NPB14,106-70	
		3.514	.780	1.174	.5600		.1000		BURKHARD,NPB14,106-70	
		3.530	.788	1.183	.3400		.0600		BURKHARD,NPB14,106-70	
		3.594	.822	1.220	.6800		.0500		HUWE PR181,1824-69	
		3.604	.828	1.226	.4600		.1400		BURKHARD,NPB14,106-70	
		3.769	.916	1.320	1.5100		.1000		HUWE PR181,1824-69	
		3.945	1.010	1.420	2.1200		.1600		HUWE PR181,1824-69	
		4.034	1.057	1.470	1.8000		.3000		COOPER,298,CERN62	
		4.105	1.095	1.510	2.4700		.1200		HUWE PR181,1824-69	
		4.266	1.181	1.600	2.1900		.1500		HUWE PR181,1824-69	
		4.428	1.267	1.690	2.8300		.1700		HUWE PR181,1824-69	
		5.172	1.663	2.100	1.9800		.2000		FLATTE PR155,1517-67	
		5.814	2.005	2.450	1.7800		.0700		RCSS,642,DUB64	
		6.090	2.153	2.600	1.5500		1.1600		FLATTE PR155,1517-67	
		6.829	2.547	3.000	1.0500		.1000		MERRILL,NPB18,403-70	
		7.757	3.041	3.500	1.4000		ERROR NOT GIVEN		HAQUE,654,DUB64	
		8.873	3.636	4.100	1.0500		.2140		MOTT PR177,1966-69	
		11.487	5.028	5.500	.4650		.0850		MOTT PR177,1966-69	
		12.421	5.526	6.000	.3700		.0900		SISTERSON NP86,205-68	
		20.100	9.618	10.100	.0980		.0100		ABCLV AMSTERDAM-71	
	THRESHOLD	2.36	.16	.43					71 DATA POINTS LISTED	
..... REACTION 202										
LPI+PI-ZO		20.100	9.618	10.100	.6900		.0700		ABCLV AMSTERDAM-71	
	THRESHOLD	2.80	.40	.74						
..... REACTION 203										
LPI+PI+PI-PI-		4.990	1.566	2.000	.0760		.0040		DAUBER PL24B,525-67	
		6.829	2.547	3.000	.1570		.0120		MERRILL,NPB18,403-70	
		7.757	3.041	3.500	.1100		ERROR NOT GIVEN		HAQUE,654,DUB64	
		12.421	5.526	6.000	.1070		.0200		ALLISON PL25B,619-67	
		20.100	9.618	10.100	.0590		.0060		ABCLV AMSTERDAM-71	
	THRESHOLD	2.81	.40	.75					5 DATA POINTS LISTED	
..... REACTION 204										
LPI+PI+PI-PI-PIO		6.829	2.547	3.000	.1200		.0110		MERRILL,NPB18,403-70	
		7.757	3.041	3.500	.1600		ERROR NOT GIVEN		HAQUE,654,DUB64	
		12.421	5.526	6.000	.3450		.0300		ALLISON PL25B,619-67	
		20.100	9.618	10.100	.1580		.0160		ABCLV AMSTERDAM-71	
	THRESHOLD	3.29	.66	1.05					4 DATA POINTS LISTED	
..... REACTION 205										
LPI+PI+PI-PI-ZO		20.100	9.618	10.100	.6290		.0600		ABCLV AMSTERDAM-71	
	THRESHOLD	3.81	.94	1.34						
..... REACTION 206										
L3PI+3PI-		20.100	9.618	10.100	.0210		.0004		ABCLV AMSTERDAM-71	
	THRESHOLD	3.81	.94	1.35						
..... REACTION 207										
L3PI+3PI-PIO		20.100	9.618	10.100	.0650		.0060		ABCLV AMSTERDAM-71	
	THRESHOLD	4.38	1.24	1.66						
..... REACTION 208										
L3PI+3PI-ZO		20.100	9.618	10.100	.1410		.0140		ABCLV AMSTERDAM-71	
	THRESHOLD	4.97	1.55	1.99						
..... REACTION 209										
L4PI+4PI-		20.100	9.618	10.100	4.0000	MICROB	2.0000		ABCLV AMSTERDAM-71	
	THRESHOLD	4.98	1.56	1.99						
..... REACTION 210										
L4PI+4PI-PIO		20.100	9.618	10.100	4.0000	MICROB	2.0000		ABCLV AMSTERDAM-71	
	THRESHOLD	5.62	1.90	2.35						
..... REACTION 211										
L4PI+4PI-ZO		20.100	9.618	10.100	.0100		.0050		ABCLV AMSTERDAM-71	
	THRESHOLD	6.29	2.26	2.71						
..... REACTION 212										
LK+K-		5.429	1.800	2.240	.0520		.0070		LONDON PR143,1034-66	
		6.053	2.133	2.580	.0513		ERROR NOT GIVEN		SMITH PRL14,25-65	1
		6.829	2.547	3.000	.0510		.0060		MERRILL,NPB18,403-70	
		8.873	3.636	4.100	.0590		.0130		MOTT PR177,1966-69	
		11.487	5.028	5.500	.0350		.0050		MOTT PR177,1966-69	
		20.100	9.618	10.100	8.4000	MICROB	1.3000		ABCLV AMSTERDAM-71	
	THRESHOLD	4.42	1.26	1.69					6 DATA POINTS LISTED	
..... REACTION 213										
LK+K- (NON PHI)		5.172	1.663	2.100	.0200		.0040		LINDSEY PR147,913-66	
		6.053	2.133	2.580	.0430		.0060		LINDSEY PR147,913-66	1
	THRESHOLD	4.42	1.26	1.69					2 DATA POINTS LISTED	

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 214									
LK+K- (NO PHI,F*)	12.421	5.526	6.000	.0210		.0050		SCOTTER NC62A,1057-69	
THRESHOLD	4.42	1.26	1.69						
..... REACTION 215									
LK+K-PI+PI- (NO PHI)	12.421	5.526	6.000	.0250		.0060		SCOTTER NC62A,1057-69	
THRESHOLD	5.66	1.93	2.37						
..... REACTION 216									
LK+K-PIO	6.053	2.133	2.580	4.5000	MICROB	ERROR NOT GIVEN		SMITH PRL14,25 65	1
THRESHOLD	5.03	1.59	2.02						
..... REACTION 217									
LK+KOPI+PI-PI-	12.421	5.526	6.000	7.0000	MICROB	4.0000		SCOTTER NC62A,1057-69	
THRESHOLD	6.37	2.30	2.75						
..... REACTION 218									
LK+KOPI-	6.053	2.133	2.580	2.3000	MICROB	ERROR NOT GIVEN		SMITH PRL14,25-65	1
	9.153	3.785	4.250	.0252		.0048		ABRAMS PR175,1697-68	
THRESHOLD	5.03	1.59	2.02					2 DATA POINTS LISTED	
..... REACTION 219									
LK+KOPI-PIO	9.153	3.785	4.250	7.4000	MICROB	2.6000		ABRAMS PR175,1697-68	
	12.421	5.526	6.000	.0350		.0110		SCOTTER NC62A,1057-69	
THRESHOLD	5.68	1.93	2.38					2 DATA PCINTS LISTED	
..... REACTION 220									
LK+KOPI-ZO	9.153	3.785	4.250	2.0000	MICROB	ERROR NOT GIVEN		ABRAMS PR175,1697-68	
THRESHOLD	6.37	2.30	2.75						
..... REACTION 221									
LK+KO4PI	12.421	5.526	6.000	3.0000	MICROB	2.0000		SCOTTER NC62A,1057-69	
THRESHOLD	7.08	2.68	3.13						
..... REACTION 222									
LK-KOPI+	6.053	2.133	2.580	.0350		ERROR NOT GIVEN		SMITH PRL14,25-65	1
	9.153	3.785	4.250	.0262		.0052		ABRAMS PR175,1697-68	
THRESHOLD	5.03	1.59	2.02					2 DATA POINTS LISTED	
..... REACTION 223									
LK-KOPI+PIO	9.153	3.785	4.250	.0124		.0036		ABRAMS PR175,1697-68	
	12.421	5.526	6.000	.0420		.0120		SCOTTER NC62A,1057-69	
THRESHOLD	5.68	1.93	2.38					2 DATA POINTS LISTED	
..... REACTION 224									
LK-KOPI+ZO	9.153	3.785	4.250	4.0000	MICROB	ERROR NOT GIVEN		ABRAMS PR175,1697-68	
THRESHOLD	6.37	2.30	2.75						
..... REACTION 225									
LK-KO4PI	12.421	5.526	6.000	2.0000	MICROB	2.0000		SCOTTER NC62A,1057-69	
THRESHOLD	7.08	2.68	3.13						
..... REACTION 226									
LKOPI+PI-ZO	12.421	5.526	6.000	.0290		.0090		SCOTTER NC62A,1057-69	
THRESHOLD	4.70	1.41	1.84						
..... REACTION 227									
LKOZO	12.421	5.526	6.000	.1100		.0200		SCOTTER NC62A,1057-69	
THRESHOLD	3.57	.81	1.21						
..... REACTION 228									
LKOK(+,-)PI(-,+)	6.053	2.133	2.580	3.0000	MICROB	1.5000		LINDSEY PR147,913-66	1
THRESHOLD	5.02	1.58	2.02						
..... REACTION 229									
LKOKO	5.429	1.800	2.240	.0710		.0170		LONDON PR143,1034-66	
	6.053	2.133	2.580	.0519		ERROR NOT GIVEN		SMITH PRL14,25-65	1
	6.829	2.547	3.000	.0555		.0080		BADIER PL16,171-65	
THRESHOLD	4.42	1.26	1.69					3 DATA POINTS LISTED	
..... REACTION 230									
LKOKO (NON PHI)	5.172	1.663	2.100	.0260		.0060		LINDSEY PR147,913-66	
	6.053	2.133	2.580	.0800		.0120		LINDSEY PR147,913-66	1
THRESHOLD	4.46	1.28	1.71					2 DATA POINTS LISTED	
..... REACTION 231									
LKOKO (NO PHI,F*)	12.421	5.526	6.000	.0160		.0040		SCOTTER NC62A,1057-69	
THRESHOLD	4.46	1.28	1.71						
..... REACTION 232									
LKOKOPI+PI-PIO	12.421	5.526	6.000	.0130		.0080		SCOTTER NC62A,1057-69	
THRESHOLD	6.37	2.30	2.75						
..... REACTION 233									
LKOKOPIO	6.053	2.133	2.580	3.5000	MICROB	ERROR NOT GIVEN		SMITH PRL14,25-65	1
	12.421	5.526	6.000	.0390		.0140		SCOTTER NC62A,1057-69	
THRESHOLD	5.03	1.59	2.02					2 DATA POINTS LISTED	

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

		S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 234										
LKOKOZO		12.421	5.526	6.000	.0480		.0350		SCOTTER NC62A,1057-69	
	THRESHOLD	5.68	1.93	2.38						
..... REACTION 235										
LKSKS		6.829	2.547	3.000	9.0000	MICROB	2.0000		MERRILL,NPB18,403-70	
		9.153	3.785	4.250	9.8000	MICROB	2.4000		ABRAMS PRL18,620-67	
	THRESHOLD	4.45	1.28	1.70					2 DATA POINTS LISTED	
..... REACTION 236										
LKSKSPI+PI-		9.153	3.785	4.250	2.1000	MICROB	1.1000		ABRAMS PR175,1697-68	
	THRESHOLD	5.71	1.95	2.39						
..... REACTION 237										
LKSKSPIO		6.829	2.547	3.000	4.0000	MICROB	1.0000		MERRILL,NPB18,403-70	
		9.153	3.785	4.250	7.3000	MICROB	2.3000		ABRAMS PR175,1697-68	
	THRESHOLD	5.06	1.60	2.04					2 DATA POINTS LISTED	
..... REACTION 238										
LKSKSZO		9.153	3.785	4.250	5.2000	MICROB	2.0000		ABRAMS PR175,1697-68	
	THRESHOLD	5.71	1.95	2.39						
..... REACTION 239										
LKSKL		6.829	2.547	3.000	.0360		.0090		MERRILL,NPB18,403-70	
		9.153	3.785	4.250	.0300		.0043		ABRAMS PR175,1697-68	
	THRESHOLD	4.45	1.28	1.70					2 DATA POINTS LISTED	
..... REACTION 240										
LKSKL (NON PHI)		9.153	3.785	4.250	8.0000	MICROB	2.8000		ABRAMS PRL18,620-67	
	THRESHOLD	4.46	1.28	1.71						
..... REACTION 241										
LKOKOPI+PI- (NO PHI)		12.421	5.526	6.000	.0390		.0090		SCOTTER NC62A,1057-69	
	THRESHOLD	5.71	1.95	2.39						
..... REACTION 242										
LKSKLPI+PI-		9.153	3.785	4.250	2.8000	MICROB	1.8000		ABRAMS PR175,1697-68	
	THRESHOLD	5.71	1.95	2.39						
..... REACTION 243										
LET		2.770	.383	.725	1.0500		.1700		ARMENTER. NPB21,15-70	
		2.794	.396	.740	1.0100		.0900		ARMENTER. NPB21,15-70	
		2.795	.397	.741	.9300		.1400		BERTAN. PR177,2036-69	
		2.825	.413	.760	.6500		.1600		BASTIEN PRL8,114-62	*
		2.827	.413	.761	.9200		.0900		ARMENTER. NPB21,15-70	
		2.838	.419	.768	.7100		.1100		BERTAN. PR177,2036-69	
		2.845	.423	.773	.7500		.0800		ARMENTER. NPB21,15-70	
		2.877	.440	.793	.3700		.0700		ARMENTER. NPB21,15-70	
		2.892	.448	.802	.2100		.0900		BERTAN. PR177,2036-69	
		2.920	.463	.820	.0700		.0800		BERTAN. PR177,2036-69	
		2.969	.489	.850	.1700		.1000		BASTIEN PRL8,114-62	*
		3.051	.533	.900	0.0000	MICROB	ERROR NOT GIVEN		YODH,269,ATHENS65	$
		3.087	.552	.922	.1200		.0060		YODH,269,ATHENS65	
		3.117	.568	.940	.2300		.0560		YODH,269,ATHENS65	
		3.150	.586	.960	.1800		.0660		YODH,269,ATHENS65	
		3.192	.608	.985	.3700		.0760		YODH,269,ATHENS65	
		3.594	.822	1.220	.2050		.2500		BUTTON,307,CERN62	*
		3.594	.822	1.220	.2350		.0600		FLATTE PR163,1441-67	4
		3.594	.822	1.220	.4050		.0700		FLATTE PR163,1441-67	5
		3.786	.925	1.330	.2300		.0500		TROWER PR170,1207-68	
		3.945	1.010	1.420	.3600		.0700		FLATTE PR163,1441-67	5
		3.945	1.010	1.420	.1850		.0650		FLATTE PR163,1441-67	4
		4.105	1.095	1.510	.2550		.0250		FLATTE PR163,1441-67	4
		4.105	1.095	1.510	.2800		.0300		FLATTE PR163,1441-67	5
		4.266	1.181	1.600	.3950		.0800		FLATTE PR163,1441-67	5
		4.266	1.181	1.600	.1500		.0650		FLATTE PR163,1441-67	4
		4.446	1.276	1.700	.2350		.0650		FLATTE PR163,1441-67	5
		4.446	1.276	1.700	.3600		.0700		FLATTE PR163,1441-67	4
		4.627	1.373	1.800	.1800		.0400		SMITH,380,ATHENS65	
		4.899	1.518	1.950	.1000		.0300		SMITH,380,ATHENS65	
		5.429	1.800	2.240	.0310		.0100		LONDON PR143,1034-66	$
		6.829	2.547	3.000	.0590		.0130		BADIER CEA R3037-66	
		7.757	3.041	3.500	.0170		.0070		HAQUE PR152,1148-66	*
		8.873	3.636	4.100	.0480		.0300		MOTT PR177,1966-69	
		11.487	5.028	5.500	2.0000	MICROB	2.0000		MOTT PR177,1966-69	
		12.421	5.526	6.000	5.0000	MICROB	ERROR NOT GIVEN		COLLEY NC53A,522-68	
		20.100	9.618	10.100	4.0000	MICROB	4.0000		ADERHOLZ NPB5,606-68	
		20.100	9.618	10.100	.0380		.0018		ABCLV AMSTERDAM-71	
	THRESHOLD	2.77	.38	.73					38 DATA POINTS LISTED	
..... REACTION 244										
LET=NEUTRALS		2.761	.378	.719	.7900		.1400		ARMENTER. NPB21,15-70	
		2.794	.396	.740	.8000		.0800		ARMENTER. NPB21,15-70	
		2.827	.413	.761	.6600		.0800		ARMENTER. NPB21,15-70	
		2.845	.423	.773	.5900		.0700		ARMENTER. NPB21,15-70	
		2.877	.440	.793	.2800		.0600		ARMENTER. NPB21,15-70	
		3.594	.822	1.220	.1500		.0200		BUTTON,307,CERN62	
	THRESHOLD	2.77	.38	.73					6 DATA POINTS LISTED	

FOOTNOTES

*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
$=DATA POINT NOT USED IN FITTING OR PLOTTING
4=CROSS SECTION DEDUCED FROM THE CHARGED DECAY MODE OF THE ETA
5=CROSS SECTION DEDUCED FROM THE NEUTRAL DECAY MODE OF THE ETA

********** K-P **********

		S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 245											
LET=LPI+PI-PIO		2.825	.413	.760		.1500		.0500		BASTIEN PRL8,114-62	
		2.969	.489	.850	U	.0200		.0200		BASTIEN PRL8,114-62	
		3.594	.822	1.220		.0550		.0150		BUTTON,307,CERN62	
		7.757	3.041	3.500		5.0000	MICROB	2.0000		HAQUE PR152,1148-66	
		8.873	3.636	4.100		.0130		.0080		MOTT PR177,1966-69	
		11.487	5.028	5.500		.6000	MICROB	.6000		MOTT PR177,1966-69	
		12.421	5.526	6.000		1.2000	MICROB	ERROR NOT GIVEN		CCLLEY NC53A,522-68	
	THRESHOLD	2.77	.38	.73						7 DATA POINTS LISTED	
..... REACTION 246											
LET=LZO		2.825	.413	.760		.5000		.1500		BASTIEN PRL10,188-63	
		2.969	.489	.850		.1500		.1000		BASTIEN PRL10,188-63	
	THRESHOLD	2.77	.38	.73						2 DATA POINTS LISTED	
..... REACTION 247											
LETPI+PI-		8.873	3.636	4.100		.0720		.0200		MOTT PR177,1966-69	
		11.487	5.028	5.500		.0200		.0040		MOTT PR177,1966-69	
		20.100	9.618	10.100		.0200		.0080		ADERHOLZ NPB5,606-68	
	THRESHOLD	3.78	.92	1.33						3 DATA POINTS LISTED	
..... REACTION 248											
LETPI+PI-=LPI+PI+PI-PI-PIO		5.814	2.005	2.450		.0250		ERROR NOT GIVEN		KALBFLE. PRL12,527-64	
	THRESHOLD	3.78	.92	1.33							
..... REACTION 249											
LETPI+PI-=LPI+PI-ZO		8.873	3.636	4.100		.0230		.0060		MOTT PR177,1966-69	
		11.487	5.028	5.500		7.0000	MICROB	2.0000		MOTT PR177,1966-69	
	THRESHOLD	3.78	.92	1.33						2 DATA POINTS LISTED	
..... REACTION 250											
LRH+PI+2PI-		20.100	9.618	10.100		.0160		.0050		ADERHOLZ NPB5,606-68	
	THRESHOLD	5.27	1.71	2.15							
..... REACTION 251											
LRH+PI-		8.873	3.636	4.100		.0750		.0710		MOTT PR177,1966-69	
		11.487	5.028	5.500		.0440		.0330		MOTT PR177,1966-69	
	THRESHOLD	4.06	1.07	1.48						2 DATA POINTS LISTED	
..... REACTION 252											
LRH-PI+		8.873	3.636	4.100		.2670		.0700		MOTT PR177,1966-69	
		11.487	5.028	5.500		.0730		.0170		MOTT PR177,1966-69	
		20.100	9.618	10.100		.0130		.0050		ADERHOLZ NPB5,606-68	
	THRESHOLD	4.06	1.07	1.48						3 DATA POINTS LISTED	
..... REACTION 253											
LRH-PI+PI+PI-		20.100	9.618	10.100		.0160		.0050		ADERHOLZ NPB5,606-68	
	THRESHOLD	5.27	1.71	2.15							
..... REACTION 254											
LRHO		3.611	.832	1.230		0.0000	MICROB	70.0000		HUWE PR181,1824-69	$
		3.786	.925	1.330		.3600		.3600		GORDON NC61A,353-69	
		3.857	.962	1.370		.2900		.0900		HUWE PR181,1824-69	1
		4.141	1.114	1.530		.4600		.0900		HUWE PR181,1824-69	1
		4.392	1.248	1.670		.1400		.0900		HUWE PR181,1824-69	1
		4.627	1.373	1.800		.3900		.0600		SMITH,380,ATHENS65	
		4.899	1.518	1.950		.3300		.0400		SMITH,380,ATHENS65	
		5.429	1.800	2.240		.0830		.0140		LONDON PR143,1034-66	$
		6.829	2.547	3.000		.1100		.0250		BADIER CEA R3037-66	
		8.873	3.636	4.100		.0660		.0230		MOTT PR177,1966-69	
		11.487	5.028	5.500		.0220		.0040		MOTT PR177,1966-69	
		12.421	5.526	6.000		9.0000	MICROB	3.0000		CCLLEY NC53A,522-68	
		20.100	9.618	10.100		3.0000	MICROB	2.0000		ADERHOLZ NPB5,606-68	
		20.100	9.618	10.100		5.5000	MICROB	1.6000		ABCLV AMSTERDAM-71	
	THRESHOLD	3.52	.78	1.17						14 DATA POINTS LISTED	
..... REACTION 255											
LRHO (BACKWARD)		6.829	2.547	3.000		.0380		.0700		BADIER CEA N532-65	
		8.873	3.636	4.100		.0320		.0170		MOTT PR177,1966-69	
		11.487	5.028	5.500		7.0000	MICROB	3.0000		MOTT PR177,1966-69	
	THRESHOLD	3.52	.78	1.17						3 DATA POINTS LISTED	
..... REACTION 256											
LRHOPI+PI-PIO		20.100	9.618	10.100		.0210		.0090		ADERHOLZ NPB5,606 68	
	THRESHOLD	5.27	1.71	2.15							
..... REACTION 257											
LRHOPIO		8.873	3.636	4.100		.1060		.0820		MOTT PR177,1966-69	
		11.487	5.028	5.500		.0560		.0200		MOTT PR177,1966-69	
		20.100	9.618	10.100		.0100		.0040		ADERHOLZ NPB5,606-68	
	THRESHOLD	4.06	1.07	1.48						3 DATA POINTS LISTED	

FOOTNOTES

U=UPPER LIMIT
$=DATA POINT NOT USED IN FITTING OR PLOTTING
1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

		S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 258										
LOM		3.594	.822	1.220	0.0000	MICROB	60.0000		EBERH.PR145,1062-66	$
		3.769	.916	1.320	.8900		.0700		EBERH.PR145,1062-66	*
		3.945	1.010	1.420	1.0800		.0900		EBERH.PR145,1062-66	*
		4.105	1.095	1.510	.8830		.0460		MURRAY PL7,358-63	*
		4.105	1.095	1.510	1.0700		.0600		EBERH.PR145,1062-66	*
		4.266	1.181	1.600	.8700		.0600		EBERH.PR145,1062-66	*
		4.428	1.267	1.690	1.1200		.0700		EBERH.PR145,1062-66	*
		4.446	1.276	1.700	.6400		.1100		FLATTE PR155,1517-67	*
		4.627	1.373	1.800	.5500		.0500		SMITH,380,ATHENS65	
		4.899	1.518	1.950	.5600		.0500		SMITH,380,ATHENS65	
		5.172	1.663	2.100	.5100		.0600		FLATTE PR155,1517-67	*
		5.429	1.800	2.240	.2780		.0300		LONDON PR143,1034-66	$
		6.090	2.153	2.600	.2400		.0300		FLATTE PR155,1517-67	*
		6.829	2.547	3.000	.1340		.0180		HOOGLAND,NPB21,381-70	
		6.829	2.547	3.000	.1340		.0170		BADIER CEA R3037-66	
		7.757	3.041	3.500	.1000		.0100		HAQUE PR152,1148-66	*
		8.873	3.636	4.100	.0540		.0140		MOTT PR177,1966-69	
		11.487	5.028	5.500	.0210		.0030		MOTT PR177,1966-69	
		12.421	5.526	6.000	.0200		.0050		COLLEY NC53A,522-68	
		20.100	9.618	10.100	2.2000	MICROB	1.0000		ADERHOLZ NPB5,606-68	
		20.100	9.618	10.100	3.1000	MICROB	1.0000		ABOLV AMSTERDAM-71	
	THRESHOLD	3.60	.83	1.22					21 DATA POINTS LISTED	
..... REACTION 259										
LOM (FORWARD)		6.829	2.547	3.000	.0870		.0160		HOOGLAND,NPB21,38 -70	
	THRESHOLD	3.60	.83	1.22						
..... REACTION 260										
LOM (BACKWARD)		6.829	2.547	3.000	.0470		.0050		HOOGLAND,NPB21,381-70	
		6.829	2.547	3.000	.0470		.0500		BADIER CEA N532-65	
		8.873	3.636	4.100	3.0000	MICROB	3.0000		MOTT PR177,1966-69	
		11.487	5.028	5.500	4.0000	MICROB	2.0000		MOTT PR177,1966-69	
	THRESHOLD	3.60	.83	1.22					4 DATA POINTS LISTED	
..... REACTION 261										
LOM=LPI+PI-PIO		3.594	.822	1.220	0.0000	MICROB	50.0000		EBERH.PR145,1062-66	$
		3.769	.916	1.320	.8000		.0600		EBERH.PR145,1062-66	
		3.945	1.010	1.420	.9700		.0800		EBERH.PR145,1062-66	
		4.105	1.095	1.510	.8000		.0400		MURRAY PL7,358-63	
		4.105	1.095	1.510	.9600		.0500		EBERH.PR145,1062-66	
		4.266	1.181	1.600	.7800		.0500		EBERH.PR145,1062-66	
		4.428	1.267	1.690	1.0100		.0600		EBERH.PR145,1062-66	
		4.446	1.276	1.700	.5800		.1000		FLATTE PR155,1517-67	
		5.172	1.663	2.100	.4600		.0500		FLATTE PR155,1517-67	
		6.090	2.153	2.600	.2200		.0300		FLATTE PR155,1517-67	
		7.757	3.041	3.500	.0900		.0100		HAQUE PR152,1148-66	
		8.873	3.636	4.100	.0490		.0130		MOTT PR177,1966-69	
		11.487	5.028	5.500	.0190		.0030		MOTT PR177,1966-69	
		12.421	5.526	6.000	.0180		.0050		COLLEY NC53A,522-68	
	THRESHOLD	3.60	.83	1.22					14 DATA POINTS LISTED	
..... REACTION 262										
LOM=LZO		4.105	1.095	1.510	.0830		.0220		MURRAY PL7,358-63	
	THRESHOLD	3.60	.83	1.22						
..... REACTION 263										
LOMPI+PI-		20.100	9.618	10.100	.0150		.0040		ADERHOLZ NPB5,606-68	
	THRESHOLD	4.74	1.44	1.86						
..... REACTION 264										
LK*+890K-PIO		12.421	5.526	6.000	8.0000	MICROB	50.0000		SCOTTER NC62A,1057-69	
	THRESHOLD	6.96	2.62	3.07						
..... REACTION 265										
LK*+890KOPI-		12.421	5.526	6.000	.0120		.0600		SCOTTER NC62A,1057-69	
	THRESHOLD	6.96	2.62	3.07						
..... REACTION 266										
LK*+890(KPI)-		12.421	5.526	6.000	.0200		.0080		SCOTTER NC62A,1057-69	
	THRESHOLD	6.79	2.52	2.98						
..... REACTION 267										
LK*-890K+PIO		12.421	5.526	6.000	4.0000	MICROB	4.0000		SCOTTER NC62A,1057-69	
	THRESHOLD	6.96	2.62	3.07						
..... REACTION 268										
LK*-890KOPI+		12.421	5.526	6.000	.0130		.0060		SCOTTER NC62A,1057-69	
	THRESHOLD	6.96	2.62	3.07						
..... REACTION 269										
LK*-890(KPI)+		12.421	5.526	6.000	.0170		.0070		SCOTTER NC62A,1057-69	
	THRESHOLD	6.79	2.52	2.98						
..... REACTION 270										
LK*0890(KPI)0=LK+(KPI)OPI-		12.421	5.526	6.000	2.0000	MICROB	6.0000		SCOTTER NC62A,1057-69	
	THRESHOLD	6.79	2.52	2.98						

FOOTNOTES

$=DATA POINT NOT USED IN FITTING OR PLOTTING
*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS

K-P

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 271										
LK*0890(KPI)0=LK-(KPI)0PI+	12.421	5.526	6.000		.0190		.0070		SCOTTER NC62A,1057-69	
THRESHOLD	6.79	2.52	2.98							
..... REACTION 272										
LK*0890K+PI-=LK+K-PI+PI-	12.421	5.526	6.000		.0110		.0050		SCOTTER NC62A,1057-69	
THRESHOLD	6.97	2.62	3.08							
..... REACTION 273										
LK*0890K0PI0=LK+K0PI-PI0	12.421	5.526	6.000		2.0000	MICROB	5.0000		SCOTTER NC62A,1057-69	
THRESHOLD	6.97	2.62	3.08							
..... REACTION 274										
LK*0890K0PI0=LK-K0PI+PI0	12.421	5.526	6.000		8.0000	MICROB	6.0000		SCOTTER NC62A,1057-69	
THRESHOLD	6.97	2.62	3.08							
..... REACTION 275										
L(RHPI)0	12.421	5.526	6.000		.1000		.0400		PALER NPB10,221-69	
THRESHOLD	4.06	1.07	1.49							
..... REACTION 276										
LK*K	10.179	4.332	4.800		.0200		.0080		LONDON PC	1
THRESHOLD	6.33	2.28	2.73							
..... REACTION 277										
LXO	4.754	1.440	1.870		.0540		.0080		DAUBER PRL13,449-64	1
	5.814	2.005	2.450		.0560		ERROR NOT GIVEN		KALBFLE. PRL12,527-64	*
	6.829	2.547	3.000		.0770		.0150		BADIER CEA R3037-66	
	7.757	3.041	3.500		.0450		.0160		HAQUE PR152,1148-66	*
	8.873	3.636	4.100		.0510		.0170		MOTT PRL18,355-67	
	11.487	5.028	5.500		.0200		.0040		DAVIS PL27B,532-68	
	12.421	5.526	6.000		.0360		.0120		COLLEY NC53A,522-68	*
	20.100	9.618	10.100		5.7000	MICROB	3.4000		ADERHOLZ NPB5,606-68	*
	20.100	9.618	10.100		.0150		.0040		ABCLV AMSTERDAM-71	
THRESHOLD	4.37	1.23	1.66						9 DATA POINTS LISTED	
..... REACTION 278										
LXO (BACKWARD)	6.829	2.547	3.000		5.0000	MICROB	3.0000		BADIER CEA N532-65	
	8.873	3.636	4.100	U	.0100				MOTT PR177,1966-69	
	11.487	5.028	5.500	U	2.0000	MICROB			MOTT PR177,1966-69	
THRESHOLD	4.37	1.23	1.66						3 DATA POINTS LISTED	
..... REACTION 279										
LXO=LETPI+PI-	5.814	2.005	2.450		.0250		ERROR NOT GIVEN		KALBFLE. PRL12,527-64	
	7.757	3.041	3.500		.0200		.0070		HAQUE PR152,1148-66	
	20.100	9.618	10.100		2.5000	MICROB	1.5000		ADERHOLZ NPB5,606-68	
THRESHOLD	4.37	1.23	1.66						3 DATA POINTS LISTED	
..... REACTION 280										
LXO=LETPI+PI-=LPI+PI-Z0	12.421	5.526	6.000		.0130		.0050		COLLEY NC53A,522-68	
THRESHOLD	4.37	1.23	1.66							
..... REACTION 281										
LXO=LETPI+PI-=L2PI+2PI-PI0	12.421	5.526	6.000		3.0000	MICROB	1.0000		COLLEY NC53A,522-68	
THRESHOLD	4.37	1.23	1.66							
..... REACTION 282										
LPHI	4.808	1.469	1.900		.0600		.0700		SCHLEIN PRL10,368-63	*
	4.899	1.518	1.950		.0500		.0100		SMITH,38C,ATHENS65	
	5.172	1.663	2.100		.0820		.0110		LINDSEY PR147,913-66	
	5.429	1.800	2.240		.0730		.0080		LONDON PR143,1034-66	$
	5.777	1.986	2.430		.0630		.0110		LINDSEY PR147,913-66	
	6.053	2.133	2.580		.0870		.0120		LINDSEY PR147,913-66	
	6.109	2.162	2.610		.0690		.0090		LINDSEY PR147,913-66	
	6.238	2.231	2.680		.0770		.0110		LINDSEY PR147,913-66	
	6.829	2.547	3.000		.0540		.0080		HOOGLAND,NPB21,381-70	
	7.757	3.041	3.500		.0460		.0170		HAQUE PR152,1148-66	*
	8.873	3.636	4.100		.0430		.0150		MOTT PR177,1966-69	
	9.153	3.785	4.250		.0584		.0087		ABRAMS PRL18,620-67	*
	10.179	4.332	4.800		.0400		ERROR NOT GIVEN		LONDON PC	1
	11.487	5.028	5.500		.0140		.0040		MOTT PR177,1966-69	
	12.421	5.526	6.000		.0250		.0050		SCOTTER NC62A,1057-69	
	20.100	9.618	10.100		4.0000	MICROB	3.0000		ABCLV PC-68	
	20.100	9.618	10.100		5.3000	MICROB	1.8000		ABCLV AMSTERDAM-71	
THRESHOLD	4.56	1.34	1.76						17 DATA POINTS LISTED	
					FIT OF SIGMA AGAINST PLAB GEV/C					
					6 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .79					
					K = 2.89 +- 3.66 N = -2.77 +- .76					
..... REACTION 283										
LPHI (FORWARD)	6.829	2.547	3.000		.0505		.0070		HOOGLAND,NPB21,381-70	
THRESHOLD	4.56	1.34	1.76							

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA
*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
U=UPPER LIMIT
$=DATA POINT NOT USED IN FITTING OR PLOTTING

K-P

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 284										
LPHI (BACKWARD)	6.829	2.547	3.000		3.5000	MICROB	2.CCCC		HCCGLAND,NPB21,38 -70	
	8.873	3.636	4.100	U	6.0000	MICROB			MOTT PR177,1966-69	
	11.487	5.028	5.500	U	1.0000	MICROB			MOTT PR177,1966-69	
THRESHOLD	4.56	1.34	1.76						3 DATA POINTS LISTED	
..... REACTION 285										
LPHI=NEUTRALS	6.829	2.547	3.000		.0260		.C15C		BADIER PL17,337-65	
THRESHOLD	4.56	1.34	1.76							
..... REACTION 286										
LPHI=LPI+PI-PIO	6.829	2.547	3.000		.0400		.0070		BADIER PL17,337-65	
THRESHOLD	4.56	1.34	1.76							
..... REACTION 287										
LPHI=LK+K-	6.829	2.547	3.000		.0200		.005C		BADIER PL17,337-65	
	8.873	3.636	4.100		.0210		.C070		MOTT PR177,1966-69	
	11.487	5.028	5.500		7.0000	MICROB	2.COCO		MOTT PR177,1966-69	
	12.421	5.526	6.000		8.0000	MICROB	3.0000		SCOTTER NC62A,1057-69	
THRESHOLD	4.56	1.34	1.76						4 DATA POINTS LISTED	
..... REACTION 288										
LPHI=LKOKO	12.421	5.526	6.000		8.0000	MICROB	3.CCCC		CCLLEY NC53A,522-68	
THRESHOLD	4.56	1.34	1.76							
..... REACTION 289										
LPHI=LKSKL	6.829	2.547	3.000		.0180		.C04C		BADIER PL17,337-65	
	9.153	3.785	4.250		.0172		.C03C		ABRAMS PR175,1697-68	
	12.421	5.526	6.000		.0130		.CC4C		SCOTTER NC62A,1057-69	
	20.100	9.618	10.100		1.6000	MICROB	1.COOO		ABCLV PC68	
THRESHOLD	4.56	1.34	1.76						4 DATA POINTS LISTED	
..... REACTION 290										
LPHI=LKOKO/LK+K-	4.808	1.469	1.900		.0500		.C6CC		SCHLEIN PRL10,368-63	1
	7.757	3.041	3.500		.0400		.0150		HAQUE PR152,1148-66	
THRESHOLD	4.56	1.34	1.76						2 DATA POINTS LISTED	
..... REACTION 291										
LPHIPI+PI-	12.421	5.526	6.000		.0300		.0070		SCOTTER NC62A,1057-69	
THRESHOLD	5.83	2.02	2.46							
..... REACTION 292										
LPHIPI+PI-=LK+K-PI+PI-	12.421	5.526	6.000		.0170		.0050		SCOTTER NC62A,1057-69	
THRESHOLD	5.83	2.02	2.46							
..... REACTION 293										
LPHIPI+PI-=LKSKLPI+PI-	12.421	5.526	6.000		9.0000	MICROB	3.CCOC		SCOTTER NC62A,1057-69	
THRESHOLD	5.83	2.02	2.46							
..... REACTION 294										
LPHIPIO	8.873	3.636	4.100		.0640		.026C		MOTT PR177,1966-69	
	11.487	5.028	5.500		.0360		.006C		MOTT PR177,1966-69	
THRESHOLD	5.18	1.67	2.10						2 DATA POINTS LISTED	
..... REACTION 295										
LPHIPIO=LK+K-PIO	8.873	3.636	4.100		.0300		.C12C		MOTT PR177,1966-69	
	11.487	5.028	5.500		.0170		.CC3C		MOTT PR177,1966-69	
	12.421	5.526	6.000		.0380		.C1CC		SCOTTER NC62A,1057-69	
THRESHOLD	5.18	1.67	2.10						3 DATA POINTS LISTED	
..... REACTION 296										
LA1+PI-	12.421	5.526	6.000		9.0000	MICROB	3.0000		ALLISCN PL25B,619-67	
THRESHOLD	5.55	1.86	2.30							
..... REACTION 297										
LA1+PI-PIO	12.421	5.526	6.000		.0150		.CC5C		ALLISON PL25B,619-67	
THRESHOLD	6.23	2.22	2.67							
..... REACTION 298										
LF	6.829	2.547	3.000		.1200		.C45C		BADIER,65C,CUB64	*
	8.873	3.636	4.100		.0800		.0330		MOTT PR177,1966-69	
	11.487	5.028	5.500		.0120		.0050		MOTT PR177,1966-69	
	20.100	9.618	10.100		6.0000	MICROB	5.0000		ADERHOLZ NPB5,606-68	
	20.100	9.618	10.100		5.0000	MICROB	2.CCCC		ABCLV AMSTERDAM-71	
THRESHOLD	5.59	1.89	2.33						5 DATA POINTS LISTED	
..... REACTION 299										
LF=LPI+PI-	6.829	2.547	3.000		.0800		.C3CC		BADIER,65C,CUB64	
	8.873	3.636	4.100		.0530		.022C		MOTT PR177,1966-69	
	11.487	5.028	5.500		8.0000	MICROB	3.0000		MOTT PR177,1966-69	
THRESHOLD	5.59	1.89	2.33						3 DATA POINTS LISTED	
..... REACTION 300										
LFPI+PI-PIO	20.100	9.618	10.100	U	.0150		.005C		ADERHOLZ NPB5,606 68	
THRESHOLD	7.76	3.04	3.50							
..... REACTION 301										
LFPIO	20.100	9.618	10.100		8.0000	MICROB	8.CCCC		ADERHOLZ NPB5,606-68	
THRESHOLD	6.28	2.25	2.70							

FOOTNOTES

U=UPPER LIMIT
1=AVERAGE VALUE OVER A BAND OF MOMENTA
*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS

K-P

		S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 302											
LFPIO=LPI+PI-PIO		20.100	9.618	10.100		8.0000	MICROB	8.0000		ADERHOLZ NPB5,606-68	
	THRESHOLD	6.28	2.25	2.70							
..... REACTION 303											
LD-=LDELOPI-		11.487	5.028	5.500	U	6.0000	MICROB			AMMAR PR2,430-70.	
	THRESHOLD	4.37	1.23	1.66							
..... REACTION 304											
LA2O		8.873	3.636	4.100	U	.0180				MOTT PR177,1966-69	
		11.487	5.028	5.500	U	5.0000	MICROB			MOTT PR177,1966-69	
	THRESHOLD	5.83	2.02	2.46						2 DATA POINTS LISTED	
..... REACTION 305											
LA2O=LRH-PI+		8.873	3.636	4.100	U	8.0000	MICROB			MOTT PR177,1966-69	
		11.487	5.028	5.500	U	2.0000	MICROB			MOTT PR177,1966-69	
	THRESHOLD	5.83	2.02	2.46						2 DATA POINTS LISTED	
..... REACTION 306											
LF*		8.873	3.636	4.100		.0270		ERROR NOT GIVEN		MOTT,NWTUN,67	O
		10.179	4.332	4.800		.0450		ERROR NOT GIVEN		LONDON PC	
		11.487	5.028	5.500		.0280		ERROR NOT GIVEN		MOTT,NWTUN,67	O
		12.421	5.526	6.000		9.0000	MICROB	4.0000		SCOTTER NC62A,1057-69	
	THRESHOLD	6.84	2.55	3.00						4 DATA POINTS LISTED	
..... REACTION 307											
LF* (BACKWARD)		8.873	3.636	4.100	U	6.0000	MICROB			MOTT PR177,1966-69	
	THRESHOLD	6.84	2.55	3.00							
..... REACTION 308											
LF*=LKK (BACKWARD)		11.487	5.028	5.500	U	1.0000	MICROB			MOTT PR177,1966-69	
	THRESHOLD	6.84	2.55	3.00							
..... REACTION 309											
LF*=LK+K-		8.873	3.636	4.100		8.0000	MICROB	5.0000		MOTT PR177,1966-69	
		11.487	5.028	5.500		7.0000	MICROB	2.0000		MOTT PR177,1966-69	
		12.421	5.526	6.000		2.4000	MICROB	1.6000		SCOTTER NC62A,1057-69	
	THRESHOLD	6.84	2.55	3.00						3 DATA POINTS LISTED	
..... REACTION 310											
LF*=LKOKO		12.421	5.526	6.000		7.0000	MICROB	3.0000		SCOTTER NC62A,1057-69	
	THRESHOLD	6.84	2.55	3.00							
..... REACTION 311											
LF*=LKK		10.179	4.332	4.800		.0200		.0080		LONDON PC	1
		11.487	5.028	5.500		.0150		ERROR NOT GIVEN		DAGAN BAPS12,488-67	
		11.487	5.028	5.500		.0140		.0040		AMMAR PRL19,1071-67	
	THRESHOLD	6.84	2.55	3.00						3 DATA POINTS LISTED	
..... REACTION 312											
LF*=LK*K		10.179	4.332	4.800		.0200		.0080		LONDON PC	1
	THRESHOLD	6.84	2.55	3.00							
..... REACTION 313											
LF*PIO=LKOKOPIO		12.421	5.526	6.000		7.0000	MICROB	5.0000		SCOTTER NC62A,1057-69	
	THRESHOLD	7.59	2.95	3.41							
..... REACTION 314											
(L/SO)PK-(AL/ASO)		24.786	12.116	12.600	U	1.0000	MICROB			LACH BAPS12,540-67	
	THRESHOLD	13.40	6.05	6.52							
..... REACTION 315											
(L/SO)NKO(AL/ASO)		24.786	12.116	12.600		3.7000	MICROB	ERROR NOT GIVEN		LACH HEID 67	
	THRESHOLD	13.40	6.05	6.52							
..... REACTION 316											
(L/SO)NKOPIO(AL/ASO)		24.786	12.116	12.600		3.7000	MICROB	ERROR NOT GIVEN		LACH BAPS12,540-67	
	THRESHOLD	14.40	6.58	7.06							
..... REACTION 317											
(L/SO)(L/SO)(AL/ASO)		24.786	12.116	12.600		.6000	MICROB	ERROR NOT GIVEN		LACH BAPS12,540-67	
	THRESHOLD	11.19	4.87	5.34							
..... REACTION 318											
LA3=LOMPI+PI-		9.806	4.133	4.600		.0160		.0040		BARNES PRL23,142-69	
	THRESHOLD	7.59	2.95	3.41							
..... REACTION 319											
(L/SO)		2.086	.019	.138		154.7000		ERROR NOT GIVEN		HUMPHR. PR127,1305-62	K
		2.099	.026	.162		86.7000		ERROR NOT GIVEN		HUMPHR. PR127,1305-62	K
		2.116	.035	.188		11.2000		ERROR NOT GIVEN		HUMPHR. PR127,1305-62	K
		2.133	.044	.212		34.6000		ERROR NOT GIVEN		HUMPHR. PR127,1305-62	K
		2.153	.054	.238		5.4000		ERROR NOT GIVEN		HUMPHR. PR127,1305-62	K
	THRESHOLD	1.25	0.00	0.00						5 DATA POINTS LISTED	
..... REACTION 320											
(L/SO)PI+PI+PI-PI-		5.429	1.800	2.240		.1130		.0160		LONDON PR143,1034-66	
		6.829	2.547	3.000		.2270		.0150		BADIER CEA N532-65	
	THRESHOLD	2.81	.41	.75						2 DATA POINTS LISTED	

FOOTNOTES

U=UPPER LIMIT
O=ORDER OF MAGNITUDE
1=AVERAGE VALUE OVER A BAND OF MOMENTA
K=1 TRUE AND A TRUE
A=SUM OF ALL FINAL STATES WHICH INCLUDE THE GIVEN PARTICLES

K-P

	S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FCCT-NOTES
..... REACTION 321								
(L/SO)PI+PI+PI-PI-PIO	5.429	1.800	2.240	.0470	.0090		LONDON PR143,1034-66	
THRESHOLD	3.30	.67	1.05					
..... REACTION 322								
(L/SO)PI+PI+PI-PI-ZO	6.829	2.547	3.000	.0370	.0070		MERRILL,NPB18,403-70	
THRESHOLD	2.05	0.00	0.00					
..... REACTION 323								
(L/SO)PI+PI-	2.456	.216	.510	1.5000	.3000		ALSTON UCRL9587-61	
	2.612	.299	.620	2.1000	.3000		ALSTON UCRL9587-61	
	2.825	.413	.760	3.6000	.3000		ALSTON UCRL9587-61	
	2.969	.489	.850	3.5000	.3000		ALSTON UCRL9587-61	
	3.473	.758	1.150	4.1000	.4000		ALSTON PRL5,520-61	
	5.429	1.800	2.240	.9430	.0550		LONDON PR143,1034-66	
	6.201	2.212	2.660	1.5200	.3000		FICENEC PR175,1725-68	1
	6.802	2.532	2.985	.8200	.0700		BADIER,CEA,532	
THRESHOLD	1.95	0.00	0.00				8 DATA POINTS LISTED	
..... REACTION 324								
(L/SO)PI+PI-PIO	2.825	.413	.760	.2000	.0500		ALSTON UCRL9587-61	
	3.473	.758	1.150	1.1000	.2000		ALSTON PRL5,520-61	
	5.429	1.800	2.240	1.8190	.1280		LONDON PR143,1034-66	
	6.829	2.547	3.000	1.7500	.1800		BADIER CEA N532-65	
THRESHOLD	2.36	.17	.44				4 DATA POINTS LISTED	
..... REACTION 325								
(L/SO)PI+PI-ZO	3.473	.758	1.150	1.1000	.2000		GRAZIA. PR128,1868-62	
	3.786	.925	1.330	1.5000	.3500		TROWER PR170,1207-68	
	5.429	1.800	2.240	.4490	.0400		LONDON PR143,1034-66	
	6.829	2.547	3.000	.8500	.0800		MERRILL,NPB18,403-70	
	6.829	2.547	3.000	.8500	.0800		BADIER CEA N532-65	
THRESHOLD	2.81	.41	.75				5 DATA POINTS LISTED	
..... REACTION 326								
(LPIO/SO)PI+PI-PIO	3.594	.822	1.220	.1200	.0200		HUWE PR181,1824-69	
	3.769	.916	1.320	.1300	.0100		HUWE PR181,1824-69	
	3.945	1.010	1.420	.1500	.0200		HUWE PR181,1824-69	
	4.034	1.057	1.470	.2000	.2000		COOPER,298,CERN62	
	4.105	1.095	1.510	.2700	.0200		HUWE PR181,1824-69	
	4.266	1.181	1.600	.3000	.0300		HUWE PR181,1624-69	
	4.428	1.267	1.690	.4100	.0300		HUWE PR181,1824-69	
THRESHOLD	2.81	.40	.75				7 DATA POINTS LISTED	
..... REACTION 327								
(L/SO)PIO	2.208	.084	.300	7.5000	3.4000		NORDIN PR123,2168-61	
	2.317	.142	.400	11.7000	3.3000		NORDIN PR123,2168-61	
	5.429	1.800	2.240	.3150	.0470		LONDON PR143,1034-66	
THRESHOLD	1.58	0.00	0.00				3 DATA POINTS LISTED	
..... REACTION 328								
(L/SO)PIOPIO	2.612	.299	.620	1.1000	.2000		BASTIEN PRL10,188-63	
	2.825	.413	.760	1.9000	.2000		BASTIEN PRL10,188-63	
	2.969	.489	.850	1.3000	.2000		BASTIEN PRL10,188-63	
THRESHOLD	1.95	0.00	0.00				3 DATA POINTS LISTED	
..... REACTION 329								
(L/SO)ZO	2.574	.279	.594	2.6000	.2400		BERTAN. PR177,2036-69	
	2.683	.337	.668	2.7700	.2200		BERTAN. PR177,2036-69	
	2.744	.369	.708	3.3300	.2900		BERTAN. PR177,2036-69	
	2.770	.383	.725	3.3600	.2000		BERTAN. PR177,2036-69	
	2.795	.397	.741	3.4000	.2500		BERTAN. PR177,2036-69	
	2.838	.419	.768	4.1600	.3300		BERTAN. PR177,2036-69	
	2.892	.448	.802	2.9300	.2100		BERTAN. PR177,2036-69	
	2.920	.463	.820	3.1300	.2400		BERTAN. PR177,2036-69	
	3.473	.758	1.150	1.5000	.3500		GRAZIA. PR128,1868-62	
	3.786	.925	1.330	1.1500	.1800		TROWER PR170,1207-68	
	5.429	1.800	2.240	.9320	.0720		LONDON PR143,1034-66	
	6.829	2.547	3.000	.8200	.0400		MERRILL,NPB18,403-70	
THRESHOLD	1.95	0.00	0.00				12 DATA POINTS LISTED	
..... REACTION 330								
(L/SO)K+KOPI-	12.421	5.526	6.000	.0430	.0120		SCOTTER NC62A,1057-69	
THRESHOLD	5.04	1.59	2.03					
..... REACTION 331								
(L/SO)K-KOPI+	12.421	5.526	6.000	.0350	.0100		SCOTTER NC62A,1057-69	
THRESHOLD	5.04	1.59	2.03					
..... REACTION 332								
(L/SO)KOKO (NO F*)	12.421	5.526	6.000	.0180	.0080		SCOTTER NC62A,1057-69	
THRESHOLD	4.42	1.26	1.69					
..... REACTION 333								
(L/SO)KOKOPI+PI-	12.421	5.526	6.000	.0550	.0170		SCOTTER NC62A,1057-69	
THRESHOLD	5.69	1.94	2.38					
..... REACTION 334								
(L/SO)K*+890K-	12.421	5.526	6.000	.0110	.0700		SCOTTER NC62A,1057-69	
THRESHOLD	6.00	2.10	2.55					

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 335									
(L/SO)K*-890K+	12.421	5.526	6.000	.0130		.0070		SCOTTER NC62A,1057-69	
THRESHOLD	6.25	2.24	2.68						
..... REACTION 336									
(L/SO)K*0890K0	12.421	5.526	6.000	.0150		.0080		SCOTTER NC62A,1057-69	
THRESHOLD	6.25	2.24	2.68						
..... REACTION 337									
(L/SO)F*	10.179	4.332	4.800	.0450		ERROR NOT GIVEN		BARNES PRL15,322-65	1
THRESHOLD	2.61	.30	.62						
..... REACTION 338									
(L/SO)F*=(L/SO)KSKS	9.153	3.785	4.250	4.3000	MICROB	1.4000		ABRAMS PRL18,620-67	
	10.179	4.332	4.800	.0225		ERROR NOT GIVEN		BARNES PRL15,322-65	1
THRESHOLD	2.61	.30	.62					2 DATA POINTS LISTED	
..... REACTION 339									
(L/SO)F*=(L/SO)K*K	10.179	4.332	4.800	.0225		ERROR NOT GIVEN		BARNES PRL15,322-65	1
THRESHOLD	2.61	.30	.62						
..... REACTION 340									
S(+,-)PI(-,+)PIO	2.852	.427	.777	1.6300		.1900		BURKHARD,NPB14,106-70	
	2.898	.451	.806	1.4800		.1600		BURKHARD,NPB14,106-70	
	2.949	.479	.838	1.1500		.1700		BURKHARD,NPB14,106-70	
	2.974	.492	.853	1.4200		.1200		BURKHARD,NPB14,106-70	
	3.008	.510	.874	1.3900		.1200		BURKHARD,NPB14,106-70	
	3.041	.527	.894	1.4000		.1500		BURKHARD,NPB14,106-70	
	3.057	.536	.904	1.5700		.1200		BURKHARD,NPB14,106-70	
	3.077	.547	.916	1.5600		.1500		BURKHARD,NPB14,106-70	
	3.108	.564	.935	1.5500		.1400		BURKHARD,NPB14,106-70	
	3.140	.580	.954	1.6200		.1500		BURKHARD,NPB14,106-70	
	3.167	.595	.970	1.3800		.1000		BURKHARD,NPB14,106-70	
	3.202	.613	.991	1.6600		.1100		BURKHARD,NPB14,106-70	
	3.254	.641	1.022	1.6400		.1400		BURKHARD,NPB14,106-70	
	3.291	.661	1.044	1.7400		.1600		BURKHARD,NPB14,106-70	
	3.320	.676	1.061	1.7800		.1300		BURKHARD,NPB14,106-70	
	3.353	.694	1.080	1.9300		.1800		BURKHARD,NPB14,106-70	
	3.390	.714	1.102	1.5000		.1300		BURKHARD,NPB14,106-70	
	3.416	.727	1.117	1.8300		.1500		BURKHARD,NPB14,106-70	
	3.445	.743	1.134	1.3500		.1700		BURKHARD,NPB14,106-70	
	3.478	.760	1.153	1.5000		.1500		BURKHARD,NPB14,106-70	
	3.514	.780	1.174	1.7100		.1900		BURKHARD,NPB14,106-70	
	3.530	.788	1.183	1.9000		.1500		BURKHARD,NPB14,106-70	
	3.604	.828	1.226	1.7100		.2900		BURKHARD,NPB14,106-70	
THRESHOLD	2.16	.06	.24					23 DATA POINTS LISTED	
..... REACTION 341									
S(+,-)RH(-,+)	8.818	3.606	4.070	.0850		.0320		LOOS CCO1195/116-68	
THRESHOLD	3.80	.93	1.34						
..... REACTION 342									
S(+,-)K*+890KPI	12.421	5.526	6.000	6.0000	MICROB	100.0000		SCOTTER NC62A,1057-69	
THRESHOLD	7.18	2.73	3.19						
..... REACTION 343									
S(+,-)PHIPI(-,+)=SKSKLPI	9.153	3.785	4.250	.0103		.0025		ABRAMS PR175,1697-68	
THRESHOLD	5.52	1.85	2.29						
..... REACTION 344									
S(+,-)PHIPI(-,+)	8.818	3.606	4.070	.0320		.0140		LOOS CCO1195/116-68	
	11.430	4.998	5.470	.0100		.0050		LOOS CCO1195/116-68	
THRESHOLD	5.51	1.85	2.29					2 DATA POINTS LISTED	
..... REACTION 345									
S+PI+PI-PI-	2.852	.427	.777	.0100		.0100		ARMENTER. NPB8,233-68	
	2.898	.451	.806	0.0000	MICROB	10.0000		ARMENTER. NPB8,233-68	$
	2.949	.479	.838	.0100		.0100		ARMENTER. NPB8,233-68	
	2.974	.492	.853	.0100		.0100		ARMENTER. NPB8,233-68	
	3.008	.510	.874	0.0000	MICROB	10.0000		ARMENTER. NPB8,233-68	$
	3.041	.527	.894	.0200		.0200		ARMENTER. NPB8,233-68	
	3.057	.536	.904	.0100		.0100		ARMENTER. NPB8,233-68	
	3.077	.547	.916	0.0000	MICROB	10.0000		ARMENTER. NPB8,233-68	$
	3.108	.564	.935	.0100		.0100		ARMENTER. NPB8,233-68	
	3.140	.580	.954	.0200		.0100		ARMENTER. NPB8,233-68	
	3.167	.595	.970	.0300		.0100		ARMENTER. NPB8,233-68	
	3.202	.613	.991	.0500		.0200		ARMENTER. NPB8,233-68	
	3.254	.641	1.022	.0400		.0200		ARMENTER. NPB8,233-68	
	3.291	.661	1.044	.0900		.0300		ARMENTER. NPB8,233-68	
	3.320	.676	1.061	.0700		.0200		ARMENTER. NPB8,233-68	
	3.353	.694	1.080	.1000		.0300		ARMENTER. NPB8,233-68	
	3.390	.714	1.102	.1300		.0300		ARMENTER. NPB8,233-68	
	3.416	.727	1.117	.1100		.0200		ARMENTER. NPB8,233-68	
	3.445	.743	1.134	.1800		.0400		ARMENTER. NPB8,233-68	
	3.473	.758	1.150	.1900		.0600		GRAZIA. PR128,1868-62	
	3.478	.760	1.153	.1400		.0300		ARMENTER. NPB8,233-68	
	3.514	.780	1.174	.1500		.0300		ARMENTER. NPB8,233-68	
	3.530	.788	1.183	.1200		.0200		ARMENTER. NPB8,233-68	
	3.594	.822	1.220	.1100		.2000		ALSTON,311,CERN62	
	3.604	.828	1.226	.1200		.0400		ARMENTER. NPB8,233-68	
	4.034	1.057	1.470	.2000		.0400		COOPER,298,CERN62	
	4.105	1.095	1.510	.2200		.0200		ALSTON PR134B,1289-64	

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA
$=DATA POINT NOT USED IN FITTING OR PLOTTING

K-P

		S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 345									
S+PI+PI-PI-		4.446	1.276	1.700	.2900	.0340		ALSTON PR134B,1289-64	
(CONTINUATION)		4.990	1.566	2.000	.2060	.0080		DAUBER PL24B,525-67	
		5.429	1.800	2.240	.1990	.0190		LONDON PR143,1034-66	
		6.829	2.547	3.000	.2210	.0160		MERRILL,NPB18,403-70	
		6.829	2.547	3.000	.2210	.0160		BADIER CEA N532-65	
		7.757	3.041	3.500	.2100	ERROR NOT GIVEN		HAGLE,654,DUB64.	
		8.818	3.606	4.070	.2180	.0360		LCOS CCO1195/116-68	
		11.487	5.028	5.500	.1350	.0160		KRUSE PR177,1951-69	
	THRESHOLD	2.59	.29	.61				35 DATA POINTS LISTED	
..... REACTION 346									
S+PI+PI-PI-PIO		5.429	1.800	2.240	.0640	.0080		LONDON PR143,1034-66	
		6.829	2.547	3.000	.2460	.0170		MERRILL,NPB18,403-70	
		6.829	2.547	3.000	.2460	.0170		BADIER CEA N532-65	
		7.757	3.041	3.500	.2800	ERROR NOT GIVEN		HAGLE,654,DUB64	
		11.487	5.028	5.500	.2500	.0250		KRUSE PR177,1951-69	
	THRESHOLD	3.06	.54	.91				5 DATA POINTS LISTED	
..... REACTION 347									
S+PI+2PI-ZO		6.829	2.547	3.000	.0190	.0050		MERRILL,NPB18,403-70	
	THRESHOLD	3.57	.81	1.21					
..... REACTION 348									
S+PI-		2.060	.010	.070	51.9300	20.7000		SAKITT PR139B,719-65	1
		2.065	.010	.088	27.8000	ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.066	.010	.090	23.5800	12.9000		SAKITT PR139B,719-65	1
		2.074	.012	.110	33.8700	10.5000		SAKITT PR139B,719-65	1
		2.074	.013	.112	75.8000	ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.082	.017	.130	28.0700	6.9300		SAKITT PR139B,719-65	1
		2.086	.019	.138	20.8000	ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.093	.022	.150	17.1300	4.6500		SAKITT PR139B,719-65	1
		2.099	.026	.162	39.1000	ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.104	.028	.170	13.6600	3.4300		SAKITT PR139B,719-65	1
		2.116	.035	.188	20.6000	ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.117	.035	.190	17.0500	3.4500		SAKITT PR139B,719-65	1
		2.131	.043	.210	17.0100	3.4500		SAKITT PR139B,719-65	1
		2.133	.044	.212	18.2000	ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.146	.051	.230	10.7100	2.7700		SAKITT PR139B,719-65	1
		2.153	.054	.238	21.3000	ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.163	.060	.250	11.8600	3.1000		SAKITT PR139B,719-65	1
		2.173	.065	.262	15.3000	ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.180	.069	.270	8.7300	3.1100		SAKITT PR139B,719-65	1
		2.199	.079	.290	5.8800	3.7400		SAKITT PR139B,719-65	1
		2.202	.080	.293	13.1000	1.1000		FERRO-LUZ. PRL8,28-62	
		2.208	.084	.300	9.2000	2.9000		NORDIN PR123,2168-61	
		2.260	.111	.350	11.3000	1.6000		FERRO-LUZ. PRL8,28-62	
		2.305	.135	.390	13.5000	1.0000		FERRO-LUZ. PRL8,28-62	
		2.317	.142	.400	9.9000	2.3000		NORDIN PR123,2168-61	
		2.358	.164	.434	7.7000	1.2000		FERRO-LUZ. PRL8,28-62	
		2.360	.165	.436	8.6900	.8400		ARMENTER. NPB21,15-70	
		2.384	.178	.455	6.3400	.4100		ARMENTER. NPB21,15-70	
		2.410	.191	.475	6.0000	.3400		ARMENTER. NPB21,15-70	
		2.436	.205	.495	5.1800	.3400		ARMENTER. NPB21,15-70	
		2.460	.218	.513	7.3000	1.2000		FERRO-LUZ. PRL8,28-62	
		2.462	.219	.514	4.9600	.3200		ARMENTER. NPB21,15-70	
		2.489	.234	.534	5.8200	.4100		ARMENTER. NPB21,15-70	
		2.517	.248	.554	4.9000	.2800		ARMENTER. NPB21,15-70	
		2.544	.263	.573	4.2900	.2700		ARMENTER. NPB21,15-70	
		2.574	.279	.594	3.7500	.3200		BERTAN. PR177,2036-69	
		2.578	.281	.597	4.3800	.2100		ARMENTER. NPB21,15-70	
		2.607	.296	.617	3.9200	.2000		ARMENTER. NPB21,15-70	
		2.612	.299	.620	4.6000	.6000		BASTIEN PRL1C,188-63	
		2.637	.312	.637	3.4100	.1700		ARMENTER. NPB21,15-70	
		2.656	.322	.650	4.1800	.6300		BERTAN. PR177,2036-69	
		2.668	.329	.658	3.6000	.1800		ARMENTER. NPB21,15-70	
		2.683	.337	.668	3.0500	.2700		BERTAN. PR177,2036-69	
		2.697	.344	.677	2.9300	.1700		ARMENTER. NPB21,15-70	
		2.730	.362	.699	3.0600	.1800		ARMENTER. NPB21,15-70	
		2.744	.369	.708	2.6200	.2900		BERTAN. PR177,2036-69	
		2.761	.378	.719	2.7100	.1800		ARMENTER. NPB21,15-70	
		2.770	.383	.725	3.1400	.2500		BERTAN. PR177,2036-69	
		2.794	.396	.740	2.4500	.1400		ARMENTER. NPB21,15-70	
		2.795	.397	.741	2.4300	.2300		BERTAN. PR177,2036-69	
		2.825	.413	.760	2.8000	.3000		BASTIEN PRL1C,188-63	
		2.827	.413	.761	2.1800	.1500		ARMENTER. NPB21,15-70	
		2.838	.419	.768	3.1800	.3400		BERTAN. PR177,2036-69	
		2.845	.423	.773	2.6000	.1700		ARMENTER. NPB21,15-70	
		2.852	.427	.777	2.7600	.2900		ARMENTER. NPB8,233-68	
		2.877	.440	.793	2.0800	.1600		ARMENTER. NPB21,15-70	
		2.892	.448	.802	2.3100	.2400		BERTAN. PR177,2036-69	
		2.898	.451	.806	2.3000	.2200		ARMENTER. NPB8,233-68	
		2.920	.463	.820	2.3200	.2100		BERTAN. PR177,2036-69	
		2.949	.479	.838	2.0600	.2600		ARMENTER. NPB8,233-68	
		2.969	.489	.850	2.0000	.2000		BASTIEN PRL10,188-63	
		2.974	.492	.853	1.7200	.1500		ARMENTER. NPB8,233-68	
		3.005	.508	.872	1.6580	.2280		KANE UCRL,20676-71	1
		3.008	.510	.874	1.6400	.1400		ARMENTER. NPB8,233-68	
		3.041	.527	.894	1.7700	.1800		ARMENTER. NPB8,233-68	
		3.057	.536	.904	1.6600	.1300		ARMENTER. NPB8,233-68	
		3.077	.547	.916	1.5600	.1600		ARMENTER. NPB8,233-68	
		3.079	.548	.917	1.7610	.1970		KANE UCRL,20676-71	1
		3.108	.564	.935	1.3600	.1300		ARMENTER. NPB8,233-68	
		3.140	.580	.954	1.3700	.1400		ARMENTER. NPB8,233-68	
		3.167	.595	.970	1.4900	.1100		ARMENTER. NPB8,233-68	
		3.175	.599	.975	1.4800	.1740		KANE UCRL,20676-71	
		3.202	.613	.991	1.7100	.1200		ARMENTER. NPB8,233-68	
		3.234	.630	1.010	1.7970	.1920		KANE UCRL,20676-71	
		3.254	.641	1.022	1.4400	.1300		ARMENTER. NPB8,233-68	

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 348									
S+PI-									
(CONTINUATION)	3.291	.661	1.044	1.7100		.1600		ARMENTER. NPB8,233-68	
	3.307	.669	1.053	1.6690		.1930		KANE UCRL,2C676-71	
	3.320	.676	1.061	1.7400		.14CC		ARMENTER. NPB8,233-68	
	3.353	.694	1.080	1.5900		.1600		ARMENTER. NPB8,233-68	
	3.390	.714	1.102	1.3700		.1300		ARMENTER. NPB8,233-68	
	3.416	.727	1.117	1.0800		.11CC		ARMENTER. NPB8,233-68	
	3.445	.743	1.134	1.6100		.2100		ARMENTER. NPB8,233-68	
	3.473	.758	1.150	1.3000		.2CCC		GRAZIA. PR128,1868-62	
	3.478	.760	1.153	1.3500		.15CC		ARMENTER. NPB8,233-68	
	3.478	.760	1.153	1.3640		.1440		KANE,UCRL-20682-71	
	3.514	.780	1.174	1.3000		.1700		ARMENTER. NPB8,233-68	
	3.530	.788	1.183	1.4400		.14CC		ARMENTER. NPB8,233-68	
	3.559	.804	1.200	1.4150		.C98C		KANE,UCRL-2C682-71	
	3.604	.828	1.226	1.2400		.2500		ARMENTER. NPB8,233-68	
	3.669	.862	1.263	1.4260		.1070		BERTHON,NPB24,417-70	
	3.681	.869	1.270	1.4210		.0990		KANE,UCRL-2C682-71	
	3.751	.906	1.310	1.2770		.C990		KANE,UCRL-20682-71	
	3.762	.912	1.316	1.1630		.C83C		BERTHON,NPB24,417-70	
	3.786	.925	1.330	1.4800		.1500		TROWER PR170,1207-68	
	3.813	.939	1.345	1.2880		.1270		KANE,UCRL-20682-71	
	3.818	.942	1.348	1.2930		.131C		KANE,UCRL-2C682-71	
	3.853	.961	1.368	1.2920		.C870		BERTHON,NPB24,417-70	
	3.936	1.005	1.415	.9270		.0720		BERTHON,NPB24,417-70	
	4.006	1.042	1.454	1.1960		.0970		KANE,UCRL-20682-71	
	4.020	1.049	1.462	1.0730		.053C		BERTHON,NPB24,417-70	
	4.034	1.057	1.470	.9000		.1000		COOPER,298,CERN62	
	4.088	1.085	1.500	1.1840		.1130		KANE,UCRL-20682-71	
	4.113	1.099	1.514	1.0540		.C66C		BERTHON,NPB24,417-70	
	4.170	1.129	1.546	1.1910		.C610		BERTHON,NPB24,417-70	
	4.207	1.149	1.567	1.1990		.1240		KANE,UCRL-20682-71	
	4.277	1.186	1.606	1.1730		.0730		BERTHON,NPB24,417-70	
	4.345	1.223	1.644	1.3050		.1310		KANE,UCRL-2C682-71	
	4.362	1.231	1.653	.9610		.C490		BERTHON,NPB24,417-70	
	4.435	1.271	1.694	1.0360		.0950		KANE,UCRL-20682-71	
	4.455	1.281	1.705	.8240		.0660		BERTHON,NPB24,417-70	
	4.520	1.316	1.741	.8670		.C6CC		BERTHON,NPB24,417-70	
	4.627	1.373	1.800	.8370		.0690		BERTHON,NPB24,417-70	
	4.705	1.414	1.843	.7020		.0610		BERTHON,NPB24,417-70	
	4.899	1.518	1.950	.5500		.05CC		SMITH,380,ATHENS65	
	5.429	1.800	2.240	.2950		.0290		LONDON PR143,1034-66	$
	3.402	.720	1.109	1.4950		.2360		KANE UCRL,2C676-71	
	6.829	2.547	3.000	.2360		.0170		MERRILL,NPB18,403-70	
	7.757	3.041	3.500	.1400		.0100		HAQUE PR152,1148-66	
	8.818	3.606	4.070	.1070		.C270		LCCS PR173,1330-68	
	11.430	4.998	5.470	.0840		.0140		LOOS PR173,1330-68	
	16.165	7.521	8.000	.0551		.0032		BIRNBAUM,PL31B,484-70	
	31.163	15.514	16.000	.0205		.002C		BIRNBAUM,PL31B,484-70	
THRESHOLD	1.77	0.00	0.00					122 DATA POINTS LISTED	
..... REACTION 349									
S+PI-PIO	2.202	.080	.293	0.0000	MICROB	50.0000		FERRO-LUZ. PRL8,28-62	$
	2.260	.111	.350	.0700		.0700		FERRO-LUZ. PRL8,28-62	
	2.305	.135	.390	.2100		.09CC		FERRO-LUZ. PRL8,28-62	
	2.358	.164	.434	.1900		.1000		FERRO-LUZ. PRL8,28-62	
	2.360	.165	.436	.2000		.0900		ARMENTER. NPB21,15-70	
	2.384	.178	.455	.1200		.04CC		ARMENTER. NPB21,15-70	
	2.410	.191	.475	.0800		.03CC		ARMENTER. NPB21,15-70	
	2.436	.205	.495	.1600		.0400		ARMENTER. NPB21,15-70	
	2.460	.218	.513	.2000		.13CC		FERRO-LUZ. PRL8,28-62	
	2.462	.219	.514	.1600		.C4CC		ARMENTER. NPB21,15-70	
	2.489	.234	.534	.3600		.C70C		ARMENTER. NPB21,15-70	
	2.517	.248	.554	.1600		.0400		ARMENTER. NPB21,15-70	
	2.544	.263	.573	.1700		.0400		ARMENTER. NPB21,15-70	
	2.574	.279	.594	.2300		.06CC		BERTAN. PR177,2036-69	
	2.578	.281	.597	.2100		.C3CC		ARMENTER. NPB21,15-70	
	2.607	.296	.617	.1600		.0300		ARMENTER. NPB21,15-70	
	2.612	.299	.620	.1000		.0500		BASTIEN PRL10,188-63	
	2.637	.312	.637	.1900		.C3CC		ARMENTER. NPB21,15-70	
	2.656	.322	.650	.5300		.18CC		BERTAN. PR177,2036-69	
	2.668	.329	.658	.2700		.C400		ARMENTER. NPB21,15-70	
	2.683	.337	.668	.2500		.0600		BERTAN. PR177,2036-69	
	2.697	.344	.677	.3600		.05CC		ARMENTER. NPB21,15-70	
	2.730	.362	.699	.4200		.C5CC		ARMENTER. NPB21,15-70	
	2.744	.369	.708	.4100		.0900		BERTAN. PR177,2036-69	
	2.761	.378	.719	.4700		.06CC		ARMENTER. NPB21,15-70	
	2.770	.383	.725	.7600		.C9CC		BERTAN. PR177,2036-69	
	2.794	.396	.740	.7200		.0700		ARMENTER. NPB21,15-70	
	2.795	.397	.741	.6700		.1000		BERTAN. PR177,2036-69	
	2.825	.413	.760	.8000		.2000		BASTIEN PRL10,188-63	
	2.827	.413	.761	.7700		.0800		ARMENTER. NPB21,15-70	
	2.838	.419	.768	.7900		.1300		BERTAN. PR177,2036-69	
	2.845	.423	.773	.8200		.0800		ARMENTER. NPB21,15-70	
	2.852	.427	.777	.8400		.14CC		ARMENTER. NPB8,233-68	
	2.877	.440	.793	.7000		.C7CC		ARMENTER. NPB21,15-70	
	2.892	.448	.802	.6700		.0900		BERTAN. PR177,2036-69	
	2.898	.451	.806	.9000		.1200		ARMENTER. NPB8,233-68	
	2.920	.463	.820	.8900		.1000		BERTAN. PR177,2036-69	
	2.949	.479	.838	.6100		.12CC		ARMENTER. NPB8,233-68	
	2.969	.489	.850	.5000		.1000		BASTIEN PRL10,188-63	
	2.974	.492	.853	.8300		.0900		ARMENTER. NPB8,233-68	
	3.005	.508	.872	.8350		.14CC		KANE UCRL,2C676-71	1
	3.008	.510	.874	.7200		.C8CC		ARMENTER. NPB8,233-68	
	3.041	.527	.894	.7200		.1000		ARMENTER. NPB8,233-68	
	3.057	.536	.904	.8400		.0900		ARMENTER. NPB8,233-68	
	3.077	.547	.916	.7900		.1CCC		ARMENTER. NPB8,233-68	
	3.080	.549	.918	.9070		.111C		KANE UCRL,20676-71	1
	3.108	.564	.935	.8800		.1000		ARMENTER. NPB8,233-68	
	3.140	.580	.954	.8900		.1100		ARMENTER. NPB8,233-68	
	3.167	.595	.970	.7200		.C7CC		ARMENTER. NPB8,233-68	
	3.175	.599	.975	.6120		.0840		KANE UCRL,20676-71	

FOOTNOTES

$=DATA POINT NOT USED IN FITTING OR PLOTTING
1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 349									
S+PI-PIO	3.202	.613	.991	.9200		.0800		ARMENTER. NPB8,233-68	
(CONTINUATION)	3.234	.630	1.010	.7830		.0930		KANE UCRL,20676-71	
	3.254	.641	1.022	.9300		.1000		ARMENTER. NPB8,233-68	
	3.291	.661	1.044	1.0100		.1200		ARMENTER. NPB8,233-68	
	3.307	.669	1.053	.8710		.1140		KANE UCRL,20676-71	
	3.320	.676	1.061	.9600		.0900		ARMENTER. NPB8,233-68	
	3.353	.694	1.080	1.1100		.1200		ARMENTER. NPB8,233-68	
	3.390	.714	1.102	.8200		.0900		ARMENTER. NPB8,233-68	
	3.402	.720	1.109	.8790		.1570		KANE UCRL,20676-71	
	3.416	.727	1.117	1.1000		.1100		ARMENTER. NPB8,233-68	
	3.445	.743	1.134	.7800		.1200		ARMENTER. NPB8,233-68	
	3.473	.758	1.150	1.0000		.3000		GRAZIA. PR128,1868-62	
	3.478	.760	1.153	1.0230		.1140		KANE,UCRL-20682-71	
	3.478	.760	1.153	.8900		.1100		ARMENTER. NPB8,233-68	
	3.514	.780	1.174	.9600		.1300		ARMENTER. NPB8,233-68	
	3.530	.788	1.183	1.1700		.1100		ARMENTER. NPB8,233-68	
	3.559	.804	1.200	1.2110		.0850		KANE,UCRL-20682-71	
	3.594	.822	1.220	.5000		.0400		ALSTON,311,CERN62	
	3.604	.828	1.226	.9200		.2000		ARMENTER. NPB8,233-68	
	3.681	.869	1.270	1.1220		.0820		KANE,UCRL-20682-71	
	3.751	.906	1.310	1.4140		.1040		KANE,UCRL-20682-71	
	3.786	.925	1.330	1.3300		.1900		GORDON NC61A,353-69	
	3.813	.939	1.345	1.1500		.1130		KANE,UCRL-20682-71	
	3.882	.976	1.384	1.0160		.1080		KANE,UCRL-20682-71	
	4.006	1.042	1.454	1.1590		.0910		KANE,UCRL-20682-71	
	4.034	1.057	1.470	1.2000		.2000		COOPER,298,CERN62	
	4.088	1.085	1.500	1.1860		.1060		KANE,UCRL-20682-71	
	4.105	1.095	1.510	.9300		.0700		ALSTON,311,CERN62	
	4.207	1.149	1.567	1.1120		.1100		KANE,UCRL-20682-71	
	4.345	1.223	1.644	1.2470		.1190		KANE,UCRL-20682-71	
	4.435	1.271	1.694	1.3060		.1050		KANE,UCRL-20682-71	
	5.429	1.800	2.240	.6990		.0830		LONDON PR143,1034-66	
	6.829	2.547	3.000	.3950		.0350		MERRILL,NPB18,403-70	
	7.757	3.041	3.500	.3000		ERROR NOT GIVEN		HAQUE,654,DUB64	
	11.487	5.028	5.500	.1300		.0180		KRUSE PR177,1951-69	
THRESHOLD	2.16	.06	.25					85 DATA POINTS LISTED	
..... REACTION 350									
S+PI-PIO (NON RESONANT)	3.786	.925	1.330	.8400		.0900		GORDON NC61A,353-69	
THRESHOLD	2.16	.06	.25						
..... REACTION 351									
S+PI-PIOPIO	3.473	.758	1.150	.1800		.1200		GRAZIA. PR128,1868-62	
THRESHOLD	2.59	.29	.61						
..... REACTION 352									
S+PI-ZO	3.786	.925	1.330	.0700		.0300		TROWER PR17C,1207-68	
	5.429	1.800	2.240	.0910		.0250		LONDON PR143,1034-66	
	6.829	2.547	3.000	.2650		.0260		MERRILL,NPB18,403-70	
THRESHOLD	2.59	.29	.61					3 DATA POINTS LISTED	
..... REACTION 353									
S+K+K-PI-	8.818	3.606	4.070	.0300		.0100		LCOS CCO1195/116-68	
	11.487	5.028	5.500	.0310		.0060		KRUSE PR177,1951-69	
THRESHOLD	5.37	1.77	2.21					2 DATA POINTS LISTED	
..... REACTION 354									
S+K+K-PI- (NO PHI)	12.421	5.526	6.000	.0220		.0070		SCOTTER NC62A,1057-69	
THRESHOLD	5.37	1.77	2.21						
..... REACTION 355									
S+K+KOPI-PI-	12.421	5.526	6.000	9.0000	MICROB	5.0000		SCOTTER NC62A,1057-69	
THRESHOLD	6.04	2.13	2.57						
..... REACTION 356									
S+K-KO	5.429	1.800	2.240	3.0000	MICROB	2.0000		LONDON PR143,1034-66	
	6.053	2.133	2.580	2.0000	MICROB	1.0000		LINDSEY PR147,913-66	1
	9.153	3.785	4.250	3.6000	MICROB	1.8000		ABRAMS PR175,1697-68	
	12.421	5.526	6.000	1.5000	MICROB	1.5000		SCOTTER NC62A,1057-69	
THRESHOLD	4.74	1.44	1.86					4 DATA POINTS LISTED	
..... REACTION 357									
S+K-KOPI+PI-	12.421	5.526	6.000	.0110		.0050		SCOTTER NC62A,1057-69	
THRESHOLD	6.04	2.13	2.57						
..... REACTION 358									
S+K-KOPIO	9.153	3.785	4.250	6.0000	MICROB	2.3000		ABRAMS PR175,1697-68	
	12.421	5.526	6.000	.0160		.0060		SCOTTER NC62A,1057-69	
THRESHOLD	5.37	1.77	2.21					2 DATA POINTS LISTED	
..... REACTION 359									
S+K-KOZO	9.153	3.785	4.250	1.4000	MICROB	1.4000		ABRAMS PR175,1697-68	
THRESHOLD	6.04	2.13	2.57						
..... REACTION 360									
S+KOKOPI- (NO PHI)	12.421	5.526	6.000	.0170		.0060		SCOTTER NC62A,1057-69	
THRESHOLD	5.40	1.79	2.22						
..... REACTION 361									
S+KOKOPI-PIO	12.421	5.526	6.000	.0140		.0100		SCOTTER NC62A,1057-69	
THRESHOLD	6.04	2.13	2.57						

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

		S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 362										
S+K0K3PI		12.421	5.526	6.000	4.0000	MICROB	3.0000		SCOTTER NC62A,1057-69	
	THRESHOLD	6.78	2.52	2.97						
..... REACTION 363										
S+KSKSPI-		9.153	3.785	4.250	2.9000	MICROB	1.5000		ABRAMS PR175,1697-68	
	THRESHOLD	5.40	1.79	2.22						
..... REACTION 364										
S+KSKSPI-PI0		9.153	3.785	4.250	1.5000	MICROB	1.1000		ABRAMS PR175,1697-68	
	THRESHOLD	6.07	2.14	2.59						
..... REACTION 365										
S+KSKSPI-Z0		9.153	3.785	4.250	.6000	MICROB	.6000		ABRAMS PR175,1697-68	
	THRESHOLD	6.78	2.52	2.97						
..... REACTION 366										
S+KSKLPI-		9.153	3.785	4.250	8.9000	MICROB	2.7000		ABRAMS PR175,1697-68	
	THRESHOLD	5.41	1.79	2.23						
..... REACTION 367										
S+ETPI-		5.429	1.800	2.240	.0150		.0080		LONDON PR143,1034-66	
	THRESHOLD	3.53	.79	1.19						
..... REACTION 368										
S+RH-		3.786	.925	1.330	.1200		.0800		GORDON NC61A,353-69	
		5.429	1.800	2.240	.0790		.0200		LONDON PR143,1034-66	
		6.829	2.547	3.000	.1170		.0180	.0110	BADIER CEA R3037-66	
		7.757	3.041	3.500	.1500		.0200		HAQUE PR152,1148-66	
		11.487	5.028	5.500	.0390		.0100		KRUSE PR177,1951-69	
	THRESHOLD	3.80	.93	1.34					5 DATA POINTS LISTED	
..... REACTION 369										
S+RHOPI-		11.487	5.028	5.500	.0460		.0100		KRUSE PR177,1951-69	
	THRESHOLD	4.37	1.23	1.66						
..... REACTION 370										
S+OMPI-		5.429	1.800	2.240	.0280		.0080		LONDON PR143,1034-66	
		11.487	5.028	5.500	.0330		.0110		KRUSE PR177,1951-69	
	THRESHOLD	4.46	1.29	1.71					2 DATA POINTS LISTED	
..... REACTION 371										
S+OMPI-=S+PI+PI-PI-PI0		11.487	5.028	5.500	.0300		.0100		KRUSE PR177,1951-69	
	THRESHOLD	4.46	1.29	1.71						
..... REACTION 372										
S+K*-890K0		12.421	5.526	6.000	.0140		.0060		SCOTTER NC62A,1057-69	
	THRESHOLD	6.63	2.44	2.89						
..... REACTION 373										
S+K*-890(KPI)0		12.421	5.526	6.000	.0190		.0160		SCOTTER NC62A,1057-69	
	THRESHOLD	7.18	2.73	3.19						
..... REACTION 374										
S+K*0890K-=S+K+K-PI-		12.421	5.526	6.000	4.0000	MICROB	2.0000		SCOTTER NC62A,1057-69	
	THRESHOLD	6.63	2.44	2.89						
..... REACTION 375										
S+PHIPI-		12.421	5.526	6.000	.0220		.0060		SCOTTER NC62A,1057-69	
	THRESHOLD	5.52	1.85	2.29						
..... REACTION 376										
S+PHIPI-=S+K+K-PI-		12.421	5.526	6.000	.0130		.0050		SCOTTER NC62A,1057-69	
	THRESHOLD	5.52	1.85	2.29						
..... REACTION 377										
S+PHIPI-=S+KSKLPI-		12.421	5.526	6.000	7.0000	MICROB	3.0000		SCOTTER NC62A,1057-69	
	THRESHOLD	5.52	1.85	2.29						
..... REACTION 378										
S+A2-=S+RHOPI-		7.757	3.041	3.500	.0200		.0050		HAQUE PR152,1148-66	
	THRESHOLD	6.20	2.21	2.66						
..... REACTION 379										
S-PI+		2.058	.010	.062	217.5000		ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.060	.010	.070	113.5000		30.3000		SAKITT PR139B,719-65	1
		2.065	.010	.088	110.3000		ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.066	.010	.090	80.0000		18.6000		SAKITT PR139B,719-65	1
		2.074	.012	.110	60.4100		12.2800		SAKITT PR139B,719-65	1
		2.074	.013	.112	42.0000		ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.082	.017	.130	41.9700		8.0400		SAKITT PR139B,719-65	1
		2.086	.019	.138	48.3000		ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.093	.022	.150	29.1400		5.6400		SAKITT PR139B,719-65	1
		2.099	.026	.162	10.7000		ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
		2.104	.028	.170	16.6400		3.7000		SAKITT PR139B,719-65	1

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA

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	S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 379								
S-PI+								
(CONTINUATION)	2.116	.035	.188	35.7000	ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
	2.117	.035	.190	14.6000	2.9600		SAKITT PR139B,719-65	1
	2.131	.043	.210	15.3500	2.8500		SAKITT PR139B,719-65	1
	2.133	.044	.212	15.8000	ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
	2.146	.051	.230	7.8300	2.2700		SAKITT PR139B,719-65	1
	2.153	.054	.238	10.4000	ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
	2.163	.060	.250	12.6800	2.8600		SAKITT PR139B,719-65	1
	2.173	.065	.262	17.3000	ERROR NOT GIVEN		HUMPHR. PR127,1305-62	1
	2.199	.079	.290	16.1700	5.0700		SAKITT PR139B,719-65	1
	2.202	.080	.293	9.7000	1.0000		FERRO-LUZ. PRL8,28-62	
	2.208	.084	.300	8.3000	2.8000		NORDIN PR123,2168-61	
	2.260	.111	.350	7.2000	1.0000		FERRO-LUZ. PRL8,28-62	
	2.305	.135	.390	8.0000	1.0000		FERRO-LUZ. PRL8,28-62	
	2.317	.142	.400	6.0000	1.8000		NORDIN PR123,2168-61	
	2.358	.164	.434	5.8000	.9000		FERRO-LUZ. PRL8,28-62	
	2.360	.165	.436	4.6200	.4900		ARMENTER. NPB21,15-70	
	2.384	.178	.455	3.6500	.2500		ARMENTER. NPB21,15-70	
	2.410	.191	.475	3.4500	.2000		ARMENTER. NPB21,15-70	
	2.436	.205	.495	2.6800	.1900		ARMENTER. NPB21,15-70	
	2.460	.218	.513	4.7000	.8000		FERRO-LUZ. PRL8,28-62	
	2.462	.219	.514	2.4700	.1800		ARMENTER. NPB21,15-70	
	2.489	.234	.534	2.7500	.2200		ARMENTER. NPB21,15-70	
	2.517	.248	.554	2.7900	.1800		ARMENTER. NPB21,15-70	
	2.544	.263	.573	2.2900	.1600		ARMENTER. NPB21,15-70	
	2.574	.279	.594	2.5400	.2300		BERTAN. PR177,2036-69	
	2.578	.281	.597	2.3300	.1300		ARMENTER. NPB21,15-70	
	2.607	.296	.617	2.4700	.1400		ARMENTER. NPB21,15-70	
	2.612	.299	.620	2.0000	.3000		BASTIEN PRL10,188-63	
	2.637	.312	.637	2.3900	.1300		ARMENTER. NPB21,15-70	
	2.656	.322	.650	2.9300	.4600		BERTAN. PR177,2036-69	
	2.668	.329	.658	2.7000	.1500		ARMENTER. NPB21,15-70	
	2.683	.337	.668	2.9100	.2500		BERTAN. PR177,2036-69	
	2.697	.344	.677	3.0700	.1700		ARMENTER. NPB21,15-70	
	2.730	.362	.699	3.1700	.1800		ARMENTER. NPB21,15-70	
	2.744	.369	.708	3.7700	.3500		BERTAN. PR177,2036-69	
	2.761	.378	.719	4.0100	.2400		ARMENTER. NPB21,15-70	
	2.770	.383	.725	4.6900	.3000		BERTAN. PR177,2036-69	
	2.794	.396	.740	3.5500	.1800		ARMENTER. NPB21,15-70	
	2.795	.397	.741	4.4200	.3400		BERTAN. PR177,2036-69	
	2.825	.413	.760	3.3000	.2000		BASTIEN PRL10,188-63	
	2.827	.413	.761	3.5700	.2100		ARMENTER. NPB21,15-70	
	2.838	.419	.768	4.2300	.3900		BERTAN. PR177,2036-69	
	2.845	.423	.773	3.2000	.1900		ARMENTER. NPB21,15-70	
	2.852	.427	.777	3.0600	.2900		ARMENTER. NPB8,233-68	
	2.877	.440	.793	2.3200	.1500		ARMENTER. NPB21,15-70	
	2.892	.448	.802	2.2400	.1900		BERTAN. PR177,2036-69	
	2.898	.451	.806	2.2500	.2100		ARMENTER. NPB8,233-68	
	2.920	.463	.820	2.5900	.2000		BERTAN. PR177,2036-69	
	2.949	.479	.838	1.3300	.1800		ARMENTER. NPB8,233-68	
	2.969	.489	.850	1.3000	.1000		BASTIEN PRL10,188-63	
	2.974	.492	.853	1.3300	.1200		ARMENTER. NPB8,233-68	
	3.003	.507	.871	1.1690	.1430		KANE UCRL,20676-71	1
	3.008	.510	.874	1.5000	.1200		ARMENTER. NPB8,233-68	
	3.041	.527	.894	1.1900	.1300		ARMENTER. NPB8,233-68	
	3.057	.536	.904	1.3200	.1100		ARMENTER. NPB8,233-68	
	3.077	.547	.916	1.0700	.1100		ARMENTER. NPB8,233-68	
	3.080	.549	.918	1.0660	.1150		KANE UCRL,20676-71	1
	3.108	.564	.935	1.1800	.1100		ARMENTER. NPB8,233-68	
	3.140	.580	.954	1.1000	.1100		ARMENTER. NPB8,233-68	
	3.167	.595	.970	1.1600	.0900		ARMENTER. NPB8,233-68	
	3.175	.599	.975	1.0090	.1130		KANE UCRL,20676-71	
	3.202	.613	.991	1.4300	.1000		ARMENTER. NPB8,233-68	
	3.234	.630	1.010	1.1510	.1190		KANE UCRL,20676-71	
	3.254	.641	1.022	1.2900	.1200		ARMENTER. NPB8,233-68	
	3.291	.661	1.044	1.6100	.1500		ARMENTER. NPB8,233-68	
	3.307	.669	1.053	1.8180	.1370		KANE UCRL,20676-71	
	3.320	.676	1.061	1.6700	.1300		ARMENTER. NPB8,233-68	
	3.353	.694	1.080	1.1500	.1200		ARMENTER. NPB8,233-68	
	3.390	.714	1.102	1.2400	.1200		ARMENTER. NPB8,233-68	
	3.402	.720	1.109	1.4410	.1890		KANE UCRL,20676-71	
	3.416	.727	1.117	1.2400	.1100		ARMENTER. NPB8,233-68	
	3.445	.743	1.134	1.0600	.1400		ARMENTER. NPB8,233-68	
	3.473	.758	1.150	1.4000	.2000		GRAZIA. PR128,1868-62	
	3.478	.760	1.153	1.0200	.1200		ARMENTER. NPB8,233-68	
	3.478	.760	1.153	1.0840	.0870		KANE,UCRL-20682-71	
	3.514	.780	1.174	.9800	.1300		ARMENTER. NPB8,233-68	
	3.530	.788	1.183	.8200	.0900		ARMENTER. NPB8,233-68	
	3.559	.804	1.200	.8330	.0500		KANE,UCRL-2C682-71	
	3.604	.828	1.226	.5100	.1300		ARMENTER. NPB8,233-68	
	3.669	.862	1.263	.6140	.0530		BERTHON,NPB24,417-70	
	3.681	.869	1.270	.5360	.0370		KANE,UCRL-20682-71	
	3.751	.906	1.310	.4580	.0370		KANE,UCRL-20682-71	
	3.762	.912	1.316	.4660	.0400		BERTHON,NPB24,417-70	
	3.762	.912	1.316	.4660	.0040		BERTHON,NPB24,417-70	
	3.786	.925	1.330	.4900	.0300		TROWER PR170,1207-68	
	3.813	.939	1.345	.3580	.0400		KANE,UCRL-2C682-71	
	3.853	.961	1.368	.4090	.0360		BERTHON,NPB24,417-70	
	3.882	.976	1.384	.3500	.0410		KANE,UCRL-20682-71	
	3.936	1.005	1.415	.3510	.0340		BERTHON,NPB24,417-70	
	4.006	1.042	1.454	.4050	.0340		KANE,UCRL-2C682-71	
	4.020	1.049	1.462	.3720	.0240		BERTHON,NPB24,417-70	
	4.034	1.057	1.470	.4000	.1000		CCOFER,298,CERN62	
	4.088	1.085	1.500	.3560	.0370		KANE,UCRL-20682-71	
	4.113	1.099	1.514	.3630	.0290		BERTHON,NPB24,417-70	
	4.170	1.129	1.546	.3190	.0230		BERTHON,NPB24,417-70	
	4.207	1.149	1.567	.3360	.0390		KANE,UCRL-20682-71	
	4.277	1.186	1.606	.3420	.0290		BERTHON,NPB24,417-70	
	4.345	1.223	1.644	.3310	.0380		KANE,UCRL-2C682-71	
	4.362	1.231	1.653	.3180	.0210		BERTHON,NPB24,417-70	
	4.435	1.271	1.694	.2930	.0300		KANE,UCRL-20682-71	
	4.455	1.281	1.705	.2160	.0260		BERTHON,NPB24,417-70	
	4.520	1.316	1.741	.3040	.0270		BERTHON,NPB24,417-70	
	4.627	1.373	1.800	.2170	.0260		BERTHON,NPB24,417-70	
	4.627	1.373	1.800	.2640	.0300		DAUBER PL23,154-66	
	4.705	1.414	1.843	.2140	.0260		BERTHON,NPB24,417-70	

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

		S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 379										
S-PI+		4.899	1.518	1.950	.1650		.0200		DAUBER PL23,154-66	
(CONTINUATION)		5.429	1.800	2.240	.0650		.0090		LONDON PR143,1034-66	$
		6.829	2.547	3.000	.0400		.0100		MERRILL,NPB18,403-70	
		7.757	3.041	3.500	.0110		.0030		HAQLE PR152,1148-66	
		8.818	3.606	4.070	8.0000	MICROB	5.0000		LCCS PR173,1330-68	
		11.430	4.998	5.470	2.0000	MICROB	1.0000		LCCS PR173,1330-68	
	THRESHOLD	1.77	0.00	0.00					122 DATA POINTS LISTED	
..... REACTION 380										
S-PI+PI+PI-		2.852	.427	.777	0.0000	MICROB	10.0000		ARMENTER. NPB8,233-68	$
		2.898	.451	.806	0.0000	MICROB	10.0000		ARMENTER. NPB8,233-68	$
		2.949	.479	.838	0.0000	MICROB	10.0000		ARMENTER. NPB8,233-68	$
		2.974	.492	.853	0.0000	MICROB	10.0000		ARMENTER. NPB8,233-68	$
		3.008	.510	.874	0.0000	MICROB	10.0000		ARMENTER. NPB8,233-68	$
		3.041	.527	.894	.0100		.0100		ARMENTER. NPB8,233-68	
		3.057	.536	.904	.0100		.0100		ARMENTER. NPB8,233-68	
		3.077	.547	.916	.0100		.0100		ARMENTER. NPB8,233-68	
		3.108	.564	.935	.0100		.0100		ARMENTER. NPB8,233-68	
		3.140	.580	.954	.0100		.0100		ARMENTER. NPB8,233-68	
		3.167	.595	.970	0.0000	MICROB	ERROR NOT GIVEN		ARMENTER. NPB8,233-68	$
		3.202	.613	.991	.0200		.0100		ARMENTER. NPB8,233-68	
		3.254	.641	1.022	.0300		.0100		ARMENTER. NPB8,233-68	
		3.291	.661	1.044	.1100		.0300		ARMENTER. NPB8,233-68	
		3.320	.676	1.061	.0700		.0200		ARMENTER. NPB8,233-68	
		3.353	.694	1.080	.0800		.0200		ARMENTER. NPB8,233-68	
		3.390	.714	1.102	.0600		.0200		ARMENTER. NPB8,233-68	
		3.416	.727	1.117	.0900		.0200		ARMENTER. NPB8,233-68	
		3.445	.743	1.134	.1700		.0400		ARMENTER. NPB8,233-68	
		3.473	.758	1.150	.1200		.0500		GRAZIA. PR128,1868-62	
		3.478	.760	1.153	.1300		.0300		ARMENTER. NPB8,233-68	
		3.514	.780	1.174	.1400		.0300		ARMENTER. NPB8,233-68	
		3.530	.788	1.183	.1100		.0200		ARMENTER. NPB8,233-68	
		3.594	.822	1.220	.0800		.1000		ALSTON,311,CERN62	
		3.604	.828	1.226	.0700		.0300		ARMENTER. NPB8,233-68	
		4.034	1.057	1.470	.1000		.0400		COOPER,298,CERN62	
		4.105	1.095	1.510	.1450		.0150		ALSTON PR134,B1289-64	
		4.446	1.276	1.700	.1760		.0220		ALSTON PR134,B1289-64	
		4.990	1.566	2.000	.1390		.0060		DAUBER PL24B,525-67	
		5.429	1.800	2.240	.1410		.0170		LONDON PR143,1034-66	
		6.829	2.547	3.000	.1690		.0100		MERRILL,NPB18,403-70	
		7.757	3.041	3.500	.1600		ERROR NOT GIVEN		HAQUE,654,DUB64	
		8.818	3.606	4.070	.1250		.0190		LOOS CC01195/116-68	
		11.487	5.028	5.500	.0790		.0090		KRUSE PR177,1951-69	
	THRESHOLD	2.59	.29	.61					34 DATA POINTS LISTED	
..... REACTION 381										
S-PI+PI+PI-PI0		5.429	1.800	2.240	.0680		.0110		LONDON PR143,1034-66	
		6.829	2.547	3.000	.1870		.0110		MERRILL,NPB18,403-70	
		7.757	3.041	3.500	.2000		ERROR NOT GIVEN		HAQUE,654,DUB64	
		11.487	5.028	5.500	.1900		.0200		KRUSE PR177,1951-69	
	THRESHOLD	3.06	.54	.91					4 DATA POINTS LISTED	
..... REACTION 382										
S-PI+PI0		2.202	.080	.293	.0500		.0500		FERRO-LUZ. PRL8,28-62	
		2.260	.111	.350	0.0000	MICROB	70.0000		FERRO-LUZ. PRL8,28-62	$
		2.305	.135	.390	.1700		.0800		FERRO-LUZ. PRL8,28-62	
		2.358	.164	.434	0.0000	MICROB	60.0000		FERRO-LUZ. PRL8,28-62	$
		2.360	.165	.436	.0600		.0300		ARMENTER. NPB21,15-70	
		2.384	.178	.455	.0700		.0300		ARMENTER. NPB21,15-70	
		2.410	.191	.475	.1100		.0300		ARMENTER. NPB21,15-70	
		2.436	.205	.495	.0900		.0300		ARMENTER. NPB21,15-70	
		2.460	.218	.513	.1400		.1000		FERRO-LUZ. PRL8,28-62	
		2.462	.219	.514	.0800		.0300		ARMENTER. NPB21,15-70	
		2.489	.234	.534	.2700		.0600		ARMENTER. NPB21,15-70	
		2.517	.248	.554	.2400		.0400		ARMENTER. NPB21,15-70	
		2.544	.263	.573	.2200		.0400		ARMENTER. NPB21,15-70	
		2.574	.279	.594	.3200		.0700		BERTAN. PR177,2036-69	
		2.578	.281	.597	.2400		.0400		ARMENTER. NPB21,15-70	
		2.607	.296	.617	.2100		.0300		ARMENTER. NPB21,15-70	
		2.612	.299	.620	.3000		.1000		BASTIEN PRL1C,188-63	
		2.637	.312	.637	.2700		.0400		ARMENTER. NPB21,15-70	
		2.656	.322	.650	.4100		.1300		BERTAN. PR177,2036-69	
		2.668	.329	.658	.3000		.0400		ARMENTER. NPB21,15-70	
		2.683	.337	.668	.3200		.0600		BERTAN. PR177,2036-69	
		2.697	.344	.677	.2900		.0400		ARMENTER. NPB21,15-70	
		2.730	.362	.699	.4400		.0500		ARMENTER. NPB21,15-70	
		2.744	.369	.708	.3800		.0700		BERTAN. PR177,2036-69	
		2.761	.378	.719	.5100		.0600		ARMENTER. NPB21,15-70	
		2.770	.383	.725	.6500		.0700		BERTAN. PR177,2036-69	
		2.794	.396	.740	.6000		.0600		ARMENTER. NPB21,15-70	
		2.795	.397	.741	.6400		.0900		BERTAN. PR177,2036-69	
		2.825	.413	.760	.8000		.1000		BASTIEN PRL1C,188-63	
		2.827	.413	.761	.6700		.0700		ARMENTER. NPB21,15-70	
		2.838	.419	.768	.8500		.1200		BERTAN. PR177,2036-69	
		2.845	.423	.773	.6100		.0600		ARMENTER. NPB21,15-70	
		2.852	.427	.777	.7900		.1200		ARMENTER. NPB8,233-68	
		2.877	.440	.793	.6300		.0700		ARMENTER. NPB21,15-70	
		2.892	.448	.802	.6500		.0800		BERTAN. PR177,2036-69	
		2.898	.451	.806	.5800		.0900		ARMENTER. NPB8,233-68	
		2.920	.463	.820	.8700		.0900		BERTAN. PR177,2036-69	
		2.949	.479	.838	.5400		.1000		ARMENTER. NPB8,233-68	
		2.969	.489	.850	.7000		.1000		BASTIEN PRL10,188-63	
		2.974	.492	.853	.5900		.0700		ARMENTER. NPB8,233-68	
		3.003	.507	.871	.6270		.0880		KANE UCRL,20676-71	1
		3.008	.510	.874	.6700		.0700		ARMENTER. NPB8,233-68	
		3.041	.527	.894	.6800		.0900		ARMENTER. NPB8,233-68	
		3.057	.536	.904	.7300		.0700		ARMENTER. NPB8,233-68	
		3.077	.547	.916	.7700		.0900		ARMENTER. NPB8,233-68	

FOOTNOTES

$=DATA POINT NOT USED IN FITTING OR PLOTTING
1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

		S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 382										
S-PI+PIO		3.079	.548	.917	.7890		.0870		KANE UCRL,20676-71	1
(CONTINUATION)		3.108	.564	.935	.6700		.0800		ARMENTER. NPB8,233-68	
		3.140	.580	.954	.7300		.0900		ARMENTER. NPB8,233-68	
		3.167	.595	.970	.6600		.0600		ARMENTER. NPB8,233-68	
		3.175	.599	.975	.6850		.0790		KANE UCRL,20676-71	
		3.202	.613	.991	.7400		.0600		ARMENTER. NPB8,233-68	
		3.234	.630	1.010	.6680		.0720		KANE UCRL,20676-71	
		3.254	.641	1.022	.7100		.0800		ARMENTER. NPB8,233-68	
		3.291	.661	1.044	.7300		.0900		ARMENTER. NPB8,233-68	
		3.307	.669	1.053	.6980		.0800		KANE UCRL,20676-71	
		3.320	.676	1.061	.8200		.0800		ARMENTER. NPB8,233-68	
		3.353	.694	1.080	.8200		.1000		ARMENTER. NPB8,233-68	
		3.390	.714	1.102	.6800		.0800		ARMENTER. NPB8,233-68	
		3.402	.720	1.109	.9460		.1330		KANE UCRL,20676-71	
		3.416	.727	1.117	.7300		.0800		ARMENTER. NPB8,233-68	
		3.445	.743	1.134	.5700		.0900		ARMENTER. NPB8,233-68	
		3.473	.758	1.150	.8000		.3000		GRAZIA. PR128,1868-62	
		3.478	.760	1.153	.6100		.0800		ARMENTER. NPB8,233-68	
		3.478	.760	1.153	.8590		.0730		KANE,UCRL-20682-71	
		3.514	.780	1.174	.7500		.1100		ARMENTER. NPB8,233-68	
		3.530	.788	1.183	.7300		.0800		ARMENTER. NPB8,233-68	
		3.559	.804	1.200	.8710		.0510		KANE,UCRL-20682-71	
		3.594	.822	1.220	.4500		.0400		ALSTON,311,CERN62	
		3.604	.828	1.226	.7900		.1700		ARMENTER. NPB8,233-68	
		3.681	.869	1.270	.8060		.0490		KANE,UCRL-20682-71	
		3.751	.906	1.310	.9130		.0580		KANE,UCRL-20682-71	
		3.786	.925	1.330	.8600		.1200		GORDON NC61A,353-69	
		3.786	.925	1.330	.8600		.1200		TROWER PR17C,1207-68	
		3.813	.939	1.345	.8920		.0700		KANE,UCRL-20682-71	
		3.882	.976	1.384	.8270		.0700		KANE,UCRL-20682-71	
		4.006	1.042	1.454	.8520		.0580		KANE,UCRL-20682-71	
		4.034	1.057	1.470	.9000		.2000		COOPER,298,CERN62	
		4.088	1.085	1.500	.8930		.0660		KANE,UCRL-20682-71	
		4.105	1.095	1.510	.9300		.0700		ALSTON,311,CERN62	
		4.207	1.149	1.567	.8720		.0710		KANE,UCRL-20682-71	
		4.345	1.223	1.644	1.0970		.0840		KANE,UCRL-20682-71	
		4.435	1.271	1.694	1.0680		.0710		KANE,UCRL-20682-71	
		5.429	1.800	2.240	.4910		.0550		LONDON PR143,1034-66	
		6.829	2.547	3.000	.2040		.0500		MERRILL,NPB18,403-70	
		7.757	3.041	3.500	.1500		ERROR NOT GIVEN		HAGUE,654,DUB64	
		11.487	5.028	5.500	.0300		.0070		KRUSE PR177,1951-69	
	THRESHOLD	2.16	.06	.25					86 DATA POINTS LISTED	
..... REACTION 383										
S-PI+PIO (NON RESONANT)		3.786	.925	1.330	.7000		.1000		GORDON NC61A,353-69	
	THRESHOLD	2.16	.06	.25						
..... REACTION 384										
S-PI+PIOPIO		3.473	.758	1.150	.1200		.0800		GRAZIA. PR128,1868-62	
	THRESHOLD	2.59	.29	.61						
..... REACTION 385										
S-PI+Z0		3.786	.925	1.330	.0400		.0200		TROWER PR17C,1207-68	
		5.429	1.800	2.240	.1290		.0350		LONDON PR143,1034-66	
		6.829	2.547	3.000	.2200		.0550		MERRILL,NPB18,403-70	
	THRESHOLD	2.59	.29	.61					3 DATA POINTS LISTED	
..... REACTION 386										
S-2PI+PI-Z0		6.829	2.547	3.000	.0200		.0040		MERRILL,NPB18,403-70	
	THRESHOLD	3.57	.81	1.21						
..... REACTION 387										
S-K+K-PI+		8.818	3.606	4.070	.0200		.0070		LOOS CCC1195/116-68	
		11.487	5.028	5.500	.0200		.0040		KRUSE PR177,1951-69	
	THRESHOLD	5.37	1.77	2.21					2 DATA POINTS LISTED	
..... REACTION 388										
S-K+K-PI+ (NO PHI)		12.421	5.526	6.000	.0130		.0050		SCOTTER NC62A,1057-69	
	THRESHOLD	5.37	1.77	2.21						
..... REACTION 389										
S-K+K0		5.429	1.800	2.240	8.0000	MICROB	3.0000		LONDON PR143,1034-66	
		6.053	2.133	2.580	7.0000	MICROB	3.0000		LINDSEY PR147,913-66	1
		9.153	3.785	4.250	.0118		.0032		ABRAMS PR175,1697-68	
		12.421	5.526	6.000	.0120		.0040		SCOTTER NC62A,1057-69	
	THRESHOLD	4.74	1.44	1.86					4 DATA POINTS LISTED	
..... REACTION 390										
S-K+K0PI+PI-		9.153	3.785	4.250	1.6000	MICROB	1.2000		ABRAMS PR175,1697-68	
		12.421	5.526	6.000	.0140		.0050		SCOTTER NC62A,1057-69	
	THRESHOLD	6.04	2.13	2.57					2 DATA POINTS LISTED	
..... REACTION 391										
S-K+K0PI0		9.153	3.785	4.250	7.6000	MICROB	2.4000		ABRAMS PR175,1697-68	
		12.421	5.526	6.000	.0120		.0040		SCOTTER NC62A,1057-69	
	THRESHOLD	5.37	1.77	2.21					2 DATA POINTS LISTED	
..... REACTION 392										
S-K+K0Z0		9.153	3.785	4.250	.2000	MICROB	ERROR NOT GIVEN		ABRAMS PR175,1697-68	
	THRESHOLD	6.04	2.13	2.57						
..... REACTION 393										
S-K-K0PI+PI+		9.153	3.785	4.250	1.6000	MICROB	1.2000		ABRAMS PR175,1697-68	
		12.421	5.526	6.000	6.0000	MICROB	3.0000		SCOTTER NC62A,1057-69	
	THRESHOLD	6.04	2.13	2.57					2 DATA POINTS LISTED	

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA

********** K-P **********

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR + -	REFERENCE	FOOT-NOTES
..... REACTION 394								
S-K0K0PI+	12.421	5.526	6.000	.0230		.0090	SCOTTER NC62A,1057-69	
THRESHOLD	5.37	1.77	2.21					
..... REACTION 395								
S-K0K0PI+ (NO PHI)	12.421	5.526	6.000	.0210		.0040	SCOTTER NC62A,1057-69	
THRESHOLD	5.37	1.77	2.21					
..... REACTION 396								
S-K0K0PI+PI0	12.421	5.526	6.000	.0170		.0080	SCOTTER NC62A,1057-69	
THRESHOLD	6.04	2.13	2.57					
..... REACTION 397								
S-K0K3PI	12.421	5.526	6.000	7.0000	MICROB	3.0000	SCOTTER NC62A,1057-69	
THRESHOLD	6.76	2.51	2.96					
..... REACTION 398								
S-KSKSPI+	9.153	3.785	4.250	.6000	MICROB	.6000	ABRAMS PR175,1697-68	
THRESHOLD	5.40	1.79	2.22					
..... REACTION 399								
S-KSKLPI+	9.153	3.785	4.250	.0153		.0025	ABRAMS PR175,1697-68	
THRESHOLD	5.41	1.79	2.23					
..... REACTION 400								
S-ETPI+	5.429	1.800	2.240	.0270		.0110	LONDON PR143,1034-66	
THRESHOLD	3.53	.79	1.19					
..... REACTION 401								
S-RH+	3.786	.925	1.330	.0300		.0300	GORDON NC61A,353-69	
	6.829	2.547	3.000	.0280		.0050	BADIER CEA R3037-66	
THRESHOLD	3.80	.93	1.34				2 DATA POINTS LISTED	
..... REACTION 402								
S-RH0PI+	11.487	5.028	5.500	.0180		.0050	KRUSE PR177,1951-69	
THRESHOLD	4.37	1.23	1.66					
..... REACTION 403								
S-OMPI+	5.429	1.800	2.240	.0260		.0080	LONDON PR143,1034-66	
THRESHOLD	4.46	1.29	1.71					
..... REACTION 404								
S-K**+890K0	12.421	5.526	6.000	9.0000	MICROB	40.0000	SCOTTER NC62A,1057-69	
THRESHOLD	6.63	2.44	2.89					
..... REACTION 405								
S-K*0890K+=S-K+K-PI+	12.421	5.526	6.000	2.0000	MICROB	2.0000	SCOTTER NC62A,1057-69	
THRESHOLD	6.63	2.44	2.89					
..... REACTION 406								
S-PHIPI+	12.421	5.526	6.000	.0170		.0040	SCOTTER NC62A,1057-69	
THRESHOLD	5.52	1.85	2.29					
..... REACTION 407								
S-PHIPI+=S-K+K-PI+	12.421	5.526	6.000	7.0000	MICROB	3.0000	SCOTTER NC62A,1057-69	
THRESHOLD	5.52	1.85	2.29					
..... REACTION 408								
S-PHIPI+=S-KSKLPI+	12.421	5.526	6.000	7.0000	MICROB	2.0000	SCOTTER NC62A,1057-69	
THRESHOLD	5.52	1.85	2.29					
..... REACTION 409								
S0PI+PI-	2.202	.080	.293	0.0000	MICROB	20.0000	FERRO-LUZ. PRL8,28-62	$
	2.260	.111	.350	0.0000	MICROB	90.0000	FERRO-LUZ. PRL8,28-62	$
	2.305	.135	.390	.0700		.0600	FERRO-LUZ. PRL8,28-62	
	2.317	.142	.400	.5000		.5000	NORDIN PR123,2168-61	
	2.358	.164	.434	0.0000	MICROB	80.0000	FERRO-LUZ. PRL8,28-62	$
	2.360	.165	.436	.0500		.0500	ARMENTER. NPB21,15-70	
	2.384	.178	.455	.0200		.0200	ARMENTER. NPB21,15-70	
	2.410	.191	.475	.0600		.0300	ARMENTER. NPB21,15-70	
	2.436	.205	.495	.0600		.0300	ARMENTER. NPB21,15-70	
	2.456	.216	.510	.2000		.1000	BERGE PRL6,557-61	
	2.460	.218	.513	.3000		.1500	FERRO-LUZ. PRL8,28-62	
	2.462	.219	.514	.1200		.0400	ARMENTER. NPB21,15-70	
	2.489	.234	.534	.1200		.0400	ARMENTER. NPB21,15-70	
	2.517	.248	.554	.1100		.0300	ARMENTER. NPB21,15-70	
	2.544	.263	.573	.1600		.0400	ARMENTER. NPB21,15-70	
	2.574	.279	.594	.1400		.0800	BERTAN. PR177,2036-69	
	2.578	.281	.597	.1400		.0300	ARMENTER. NPB21,15-70	
	2.607	.296	.617	.2000		.0400	ARMENTER. NPB21,15-70	
	2.612	.299	.620	.3000		.1500	BASTIEN PRL10,188-63	
	2.637	.312	.637	.1100		.0300	ARMENTER. NPB21,15-70	
	2.656	.322	.650	.2800		.1800	BERTAN. PR177,2036-69	
	2.668	.329	.658	.2100		.0400	ARMENTER. NPB21,15-70	
	2.683	.337	.668	.3700		.1500	BERTAN. PR177,2036-69	
	2.697	.344	.677	.3100		.0500	ARMENTER. NPB21,15-70	
	2.730	.362	.699	.3100		.0500	ARMENTER. NPB21,15-70	

FOOTNOTES

$=DATA POINT NOT USED IN FITTING OR PLOTTING

K-P

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 409									
SOPI+PI-	2.744	.369	.708	.4500		.1800		BERTAN. PR177,2036-69	
(CONTINUATION)	2.761	.378	.719	.4900		.0700		ARMENTER. NPB21,15-70	
	2.794	.396	.740	.6300		.0700		ARMENTER. NPB21,15-70	
	2.795	.397	.741	.5500		.1000		BERTAN. PR177,2036-69	
	2.825	.413	.760	.8000		.1500		BASTIEN PRL1C,188-63	
	2.827	.413	.761	.6000		.08CC		ARMENTER. NPB21,15-7C	
	2.838	.419	.768	.8000		.13C0		BERTAN. PR177,2036-69	
	2.845	.423	.773	.6200		.08C0		ARMENTER. NPB21,15-7C	
	2.852	.427	.777	.6000		.1000		ARMENTER. NPB8,233-68	
	2.877	.440	.793	.4600		.0700		ARMENTER. NPB21,15-70	
	2.892	.448	.802	.6100		.1700		BERTAN. PR177,2036-69	
	2.898	.451	.806	.5700		.1100		ARMENTER. NPB8,233-68	
	2.920	.463	.820	.6000		.1500		BERTAN. PR177,2036-69	
	2.949	.479	.838	.5300		.1100		ARMENTER. NPB8,233-68	
	2.969	.489	.850	.7000		.1500		BASTIEN PRL1C,188-63	
	2.974	.492	.853	.3400		.0600		ARMENTER. NPB8,233-68	
	3.008	.510	.874	.4300		.0600		ARMENTER. NPB8,233-68	
	3.041	.527	.894	.4000		.08CC		ARMENTER. NPB8,233-68	
	3.057	.536	.904	.5900		.07CC		ARMENTER. NPB8,233-68	
	3.077	.547	.916	.3900		.0700		ARMENTER. NPB8,233-68	
	3.108	.564	.935	.4800		.0600		ARMENTER. NPB8,233-68	
	3.140	.580	.954	.4400		.08CC		ARMENTER. NPB8,233-68	
	3.167	.595	.970	.3800		.05CC		ARMENTER. NPB8,233-68	
	3.202	.613	.991	.5200		.06C0		ARMENTER. NPB8,233-68	
	3.254	.641	1.022	.5400		.0800		ARMENTER. NPB8,233-68	
	3.291	.661	1.044	.6300		.09CC		ARMENTER. NPB8,233-68	
	3.320	.676	1.061	.5000		.07CC		ARMENTER. NPB8,233-68	
	3.353	.694	1.080	.5200		.08C0		ARMENTER. NPB8,233-68	
	3.390	.714	1.102	.4200		.0700		ARMENTER. NPB8,233-68	
	3.416	.727	1.117	.5000		.07CC		ARMENTER. NPB8,233-68	
	3.445	.743	1.134	.5500		.09C0		ARMENTER. NPB8,233-68	
	3.473	.758	1.150	1.0000		.4000	.2000	GRAZIA. PR128,1868-62	
	3.478	.760	1.153	.3700		.0700		ARMENTER. NPB8,233-68	
	3.514	.780	1.174	.7500		.12CC		ARMENTER. NPB8,233-68	
	3.530	.788	1.183	.7000		.1CC0		ARMENTER. NPB8,233-68	
	3.594	.822	1.220	.7600		.0600		HUWE PR181,1824-69	
	3.604	.828	1.226	.6400		.1800		ARMENTER. NPB8,233-68	
	3.769	.916	1.320	.7300		.05C0		HUWE PR181,1824-69	
	3.786	.925	1.330	1.3000		.4000		TROWER PR17C,1207-68	
	3.945	1.010	1.420	.7600		.07CC		HUWE PR181,1824-69	
	4.034	1.057	1.470	1.2000		.3000		COOPER,298,CERN62	
	4.105	1.095	1.510	.8000		.0500		HUWE PR181,1824-69	
	4.266	1.181	1.600	.6800		.06C0		HUWE PR181,1824-69	
	4.428	1.267	1.690	.9100		.0600		HUWE PR181,1824-69	
	6.829	2.547	3.000	.3110		.0300		MERRILL,NPB18,403-70	
	6.829	2.547	3.000	.3110		.0300		BADIER CEA N532-65	
	7.757	3.041	3.500	.0800		ERROR NOT GIVEN		HAQLE,654,DUB64	
	8.873	3.636	4.100	.1000		.05CC		MOTT PR177,1966-69	
	11.487	5.028	5.500	.0310		.0060		MOTT PR177,1966-69	
THRESHOLD	2.16	.06	.25					74 DATA POINTS LISTED	
..... REACTION 410									
SOPI+PI-PIO	2.852	.427	.777	0.0000	MICROB	ERROR NOT GIVEN		ARMENTER. NPB8,233-68	$
	2.898	.451	.806	0.0000	MICROB	ERROR NOT GIVEN		ARMENTER. NPB8,233-68	$
	2.949	.479	.838	0.0000	MICROB	ERROR NOT GIVEN		ARMENTER. NPB8,233-68	$
	2.974	.492	.853	0.0000	MICROB	ERROR NOT GIVEN		ARMENTER. NPB8,233-68	$
	3.008	.510	.874	.0200		.0100		ARMENTER. NPB8,233-68	
	3.041	.527	.894	.1500		.05CC		ARMENTER. NPB8,233-68	
	3.057	.536	.904	.0700		.02C0		ARMENTER. NPB8,233-68	
	3.077	.547	.916	.0900		.03C0		ARMENTER. NPB8,233-68	
	3.108	.564	.935	.1800		.0400		ARMENTER. NPB8,233-68	
	3.140	.580	.954	.1700		.05CC		ARMENTER. NPB8,233-68	
	3.167	.595	.970	.1300		.03CC		ARMENTER. NPB8,233-68	
	3.202	.613	.991	.2100		.0400		ARMENTER. NPB8,233-68	
	3.254	.641	1.022	.0900		.03CC		ARMENTER. NPB8,233-68	
	3.291	.661	1.044	.1800		.0500		ARMENTER. NPB8,233-68	
	3.320	.676	1.061	.1900		.0400		ARMENTER. NPB8,233-68	
	3.353	.694	1.080	.1400		.04CC		ARMENTER. NPB8,233-68	
	3.390	.714	1.102	.2000		.05CC		ARMENTER. NPB8,233-68	
	3.416	.727	1.117	.1900		.0400		ARMENTER. NPB8,233-68	
	3.445	.743	1.134	.1700		.0500		ARMENTER. NPB8,233-68	
	3.478	.760	1.153	.1500		.04CC		ARMENTER. NPB8,233-68	
	3.514	.780	1.174	.3000		.07CC		ARMENTER. NPB8,233-68	
	3.530	.788	1.183	.2900		.06C0		ARMENTER. NPB8,233-68	
	3.594	.822	1.220	.0800		.03C0		ALSTON,311,CERN62	
	3.604	.828	1.226	.3500		.15CC		ARMENTER. NPB8,233-68	
	6.829	2.547	3.000	.7000		.1500		BADIER CEA N532-65	
	6.829	2.547	3.000	.7000		.1500		MERRILL,NPB18,403-70	
THRESHOLD	2.59	.29	.61					26 DATA POINTS LISTED	
..... REACTION 411									
SOPIO	2.202	.080	.293	5.2000		.9000		FERRC-LUZ. PRL8,28-62	
	2.208	.084	.300	2.7000		1.9000		NORDIN PR123,2168-61	
	2.260	.111	.350	6.3000		1.4000		FERRC-LUZ. PRL8,28-62	
	2.260	.111	.350	6.2000		.7000		BERLEY,PR1,1996-70	
	2.282	.123	.370	8.1000		.8000		BERLEY,PR1,1996-70	
	2.305	.135	.390	9.1000		1.3000		BERLEY,PR1,1996-70	
	2.305	.135	.390	11.6000		1.7000		BERLEY,PR1,1996-70	
	2.305	.135	.390	6.7000		.6000		FERRC-LUZ. PRL8,28-62	
	2.317	.142	.400	6.3000		2.4000		NORDIN PR123,2168-61	
	2.329	.148	.410	8.8000		.9000		BERLEY,PR1,1996-70	
	2.353	.161	.430	7.5000		1.0000		BERLEY,PR1,1996-70	
	2.358	.164	.434	4.9000		1.3000		FERRC-LUZ. PRL8,28-62	
	2.360	.165	.436	4.4300		.6800		ARMENTER. NPB21,15-70	
	2.384	.178	.455	3.2800		.3600		ARMENTER. NPB21,15-70	
	2.410	.191	.475	2.7200		.2700		ARMENTER. NPB21,15-70	
	2.436	.205	.495	2.6800		.3100		ARMENTER. NPB21,15-70	
	2.460	.218	.513	1.4000		.3000		FERRC-LUZ. PRL8,28-62	
	2.462	.219	.514	1.8600		.2400		ARMENTER. NPB21,15-70	

FOOTNOTES

$=DATA POINT NOT USED IN FITTING OR PLOTTING

K-P

		S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 411										
SOPIO		2.489	.234	.534	2.3600		.3300		ARMENTER. NPB21,15-70	
(CONTINUATION)		2.517	.248	.554	1.7400		.2300		ARMENTER. NPB21,15-70	
		2.544	.263	.573	1.8400		.2200		ARMENTER. NPB21,15-70	
		2.574	.279	.594	1.7000		1.0000		BERTAN. PR177,2036-69	
		2.578	.281	.597	2.0700		.1900		ARMENTER. NPB21,15-70	
		2.607	.296	.617	1.9600		.2000		ARMENTER. NPB21,15-70	
		2.612	.299	.620	2.1000		.3000		BASTIEN PRL10,188-63	
		2.637	.312	.637	1.4800		.1600		ARMENTER. NPB21,15-70	
		2.668	.329	.658	1.8600		.1900		ARMENTER. NPB21,15-70	
		2.683	.337	.668	1.5000		.5000		BERTAN. PR177,2036-69	
		2.697	.344	.677	1.8800		.1900		ARMENTER. NPB21,15-70	
		2.730	.362	.699	2.1900		.2000		ARMENTER. NPB21,15-70	
		2.744	.369	.708	2.0000		.7000		BERTAN. PR177,2036-69	
		2.761	.378	.719	2.2900		.2400		ARMENTER. NPB21,15-70	
		2.770	.383	.725	1.9000		.7000		BERTAN. PR177,2036-69	
		2.794	.396	.740	2.3400		.2000		ARMENTER. NPB21,15-70	
		2.795	.397	.741	1.7000		.7000		BERTAN. PR177,2036-69	
		2.825	.413	.760	1.4000		.2000		BASTIEN PRL10,188-63	
		2.827	.413	.761	1.9800		.2100		ARMENTER. NPB21,15-70	
		2.838	.419	.768	2.4000		.5000		BERTAN. PR177,2036-69	
		2.845	.423	.773	1.9500		.2100		ARMENTER. NPB21,15-70	
		2.852	.427	.777	1.1400		.1900		ARMENTER. NPB8,233-68	
		2.877	.440	.793	1.5200		.2000		ARMENTER. NPB21,15-70	
		2.892	.448	.802	1.0000		.9000		BERTAN. PR177,2036-69	
		2.898	.451	.806	1.5900		.2000		ARMENTER. NPB8,233-68	
		2.920	.463	.820	1.3000		1.0000		BERTAN. PR177,2036-69	
		2.949	.479	.838	.6500		.1100		ARMENTER. NPB8,233-68	
		2.969	.489	.850	.8000		.1000		BASTIEN PRL10,188-63	
		2.974	.492	.853	1.0700		.1200		ARMENTER. NPB8,233-68	
		3.008	.510	.874	.5900		.0900		ARMENTER. NPB8,233-68	
		3.041	.527	.894	.8100		.1200		ARMENTER. NPB8,233-68	
		3.057	.536	.904	.4700		.0900		ARMENTER. NPB8,233-68	
		3.077	.547	.916	.6500		.1200		ARMENTER. NPB8,233-68	
		3.108	.564	.935	.4700		.0900		ARMENTER. NPB8,233-68	
		3.140	.580	.954	.9200		.1200		ARMENTER. NPB8,233-68	
		3.167	.595	.970	.6300		.0800		ARMENTER. NPB8,233-68	
		3.202	.613	.991	.5000		.1000		ARMENTER. NPB8,233-68	
		3.254	.641	1.022	.6800		.1000		ARMENTER. NPB8,233-68	
		3.291	.661	1.044	.8700		.1300		ARMENTER. NPB8,233-68	
		3.320	.676	1.061	1.0000		.1000		ARMENTER. NPB8,233-68	
		3.353	.694	1.080	.9200		.1200		ARMENTER. NPB8,233-68	
		3.390	.714	1.102	.9300		.1100		ARMENTER. NPB8,233-68	
		3.416	.727	1.117	.6600		.0900		ARMENTER. NPB8,233-68	
		3.445	.743	1.134	.6000		.0800		ARMENTER. NPB8,233-68	
		3.473	.758	1.150	1.2000		.4500		GRAZIA. PR128,1868-62	
		3.478	.760	1.153	.7400		.1200		ARMENTER. NPB8,233-68	
		3.514	.780	1.174	.8400		.1200		ARMENTER. NPB8,233-68	
		3.530	.788	1.183	.4400		.0800		ARMENTER. NPB8,233-68	
		3.604	.828	1.226	.5600		.1400		ARMENTER. NPB8,233-68	
		3.786	.925	1.330	.7500		.1200		TROWER PR170,1207-68	
		6.829	2.547	3.000	.0500		.0250		BADIER CEA R3037-66	
	THRESHOLD	1.77	0.00	0.00					69 DATA POINTS LISTED	
..... REACTION 412										
SO2PI+2PI-		6.829	2.547	3.000	.0700		.0090		MERRILL,NPB18,403-70	
	THRESHOLD	3.06	.54	.91						
..... REACTION 413										
SOK+K-		5.429	1.800	2.240	8.0000	MICROB	3.0000		LONDON PR143,1034-66	
		6.053	2.133	2.580	7.8000	MICROB	ERROR	NOT GIVEN	SMITH PRL14,25-65	1
		8.873	3.636	4.100	.0130		.0080		MOTT PR177,1966-69	
		11.487	5.028	5.500	7.0000	MICROB	2.0000		MOTT PR177,1966-69	
	THRESHOLD	4.74	1.44	1.86					4 DATA POINTS LISTED	
..... REACTION 414										
SOK+K- (NON PHI)		5.172	1.663	2.100	2.0000	MICROB	2.0000		LINDSEY PR147,913-66	
		6.053	2.133	2.580	.0100		.0030		LINDSEY PR147,913-66	1
	THRESHOLD	4.74	1.44	1.86					2 DATA POINTS LISTED	
..... REACTION 415										
SOK+KOPI-		9.153	3.785	4.250	7.4000	MICROB	2.8000		ABRAMS PR175,1697-68	
	THRESHOLD	5.37	1.77	2.21						
..... REACTION 416										
SOK-KOPI+		9.153	3.785	4.250	.0204		.0050		ABRAMS PR175,1697-68	
	THRESHOLD	5.37	1.77	2.21						
..... REACTION 417										
SOKOKO		5.429	1.800	2.240	.0140		.0080		LONDON PR143,1034-66	
		6.829	2.547	3.000	.0290		.0050		BADIER,593,CUB64	
	THRESHOLD	4.74	1.44	1.86					2 DATA POINTS LISTED	
..... REACTION 418										
SOKSKS		6.829	2.547	3.000	4.0000	MICROB	2.0000		MERRILL,NPB18,403-70	
		9.153	3.785	4.250	5.6000	MICROB	1.7000		ABRAMS PR175,1697-68	
	THRESHOLD	4.77	1.45	1.88					2 DATA POINTS LISTED	
..... REACTION 419										
SOKSKSPI+PI-		9.153	3.785	4.250	1.4000	MICROB	.8000		ABRAMS PR175,1697-68	
	THRESHOLD	6.07	2.14	2.59						
..... REACTION 420										
SOKSKL		6.829	2.547	3.000	.0400		.0100		MERRILL,NPB18,403-70	
	THRESHOLD	4.77	1.45	1.88						

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

		S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 421											
SORHO		4.627	1.373	1.800		.1400		.04CC		STORK,380,ATHENS65	
		4.899	1.518	1.950		.2500		.04CC		STORK,380,ATHENS65	
		6.829	2.547	3.000		.0690		.02CC		BADIER CEA R3037-66	
		8.873	3.636	4.100	U	8.0000	MICROB			MOTT PR177,1966-69	
		11.487	5.028	5.500		3.0000	MICROB	1.0000		MOTT PR177,1966-69	
	THRESHOLD	3.80	.93	1.34						5 DATA POINTS LISTED	
..... REACTION 422											
SOPHI		5.172	1.663	2.100		8.0000	MICROB	3.0000		LINDSEY PR147,913-66	
		5.429	1.800	2.240		.0140		.0040		LONDON PR143,1034-66	
		6.053	2.133	2.580		.0200		.004C		LINDSEY PR147,913-66	1
		8.873	3.636	4.100		.0170		.C110		MOTT PR177,1966-69	
		11.487	5.028	5.500		2.0000	MICROB	2.0000		MOTT PR177,1966-69	
	THRESHOLD	4.88	1.51	1.94						5 DATA POINTS LISTED	
..... REACTION 423											
SOPHI=SOK+K-		8.873	3.636	4.100		8.0000	MICROB	5.0000		MOTT PR177,1966-69	
		11.487	5.028	5.500		1.0000	MICROB	1.0000		MOTT PR177,1966-69	
	THRESHOLD	4.88	1.51	1.94						2 DATA POINTS LISTED	
..... REACTION 424											
SOF=SOPI+PI-		6.829	2.547	3.000		.0600		.0300		BADIER P650 DUB64	
	THRESHOLD	5.95	2.08	2.53							
..... REACTION 425											
Y*+1385PI+2PI-=L2PI+2PI-		20.100	9.618	10.100		8.0000	MICROB	4.0000		ADERHOLZ NPB5,606-68	
	THRESHOLD	3.26	.64	1.02							
..... REACTION 426											
Y*+1385PI+2PI-PIO=L5PI		20.100	9.618	10.100		.0100		.0040		ADERHOLZ NP B5,606-68	
	THRESHOLD	3.78	.92	1.33							
..... REACTION 427											
Y*+1385PI+2PI-ZO=L5PIZO		20.100	9.618	10.100		.0350		.012C		ADERHOLZ NP B5,606-68	
	THRESHOLD	4.33	1.21	1.63							
..... REACTION 428											
Y*(+,-)1385PI(-,+)		2.825	.413	.760		2.4000		.15CC		BASTIEN PRL6,702-61	
		2.969	.489	.850		1.9000		.20CC		BASTIEN PRL6,702-61	
		3.473	.758	1.150		3.1000		.4000		ALSTON PRL6,702-61 PC	
	THRESHOLD	2.31	.14	.40						3 DATA POINTS LISTED	
..... REACTION 429											
Y*+1385PI-		2.456	.216	.510		1.3200		.33CC		BERGE PRL6,557-61	*
		2.612	.299	.620		1.9800		.33CC		BERGE PRL6,557-61	*
		2.825	.413	.760		1.3200		.15CC		BERGE PRL6,557-61	*
		2.969	.489	.850		1.1000		.27CC		BERGE PRL6,557-61	*
		3.251	.639	1.020		1.7300		.3000			
		3.353	.694	1.080		1.7500		.3CCC			
		3.438	.739	1.130		1.9500		.4000			
		3.473	.758	1.150		1.43C0		.22CC		ALSTON UCRL9587-61	*
		3.611	.832	1.230		1.1300		.0800		HUWE PR181,1824-69	1
		3.786	.925	1.330		.4900		.10CC		GORDON NC61A,353-69	*
		3.857	.962	1.370		.8600		.C600		HUWE PR181,1824-69	1
		4.141	1.114	1.530		.7900		.C5CC		HUWE PR181,1824-69	1
		4.392	1.248	1.670		.5100		.C700		HUWE PR181,1824-69	1
		4.627	1.373	1.800		.4300		.03CC		SMITH,380,ATHENS65	*
		4.899	1.518	1.950		.4400		.C7CC		SMITH,38C,ATHENS65	*
		5.429	1.800	2.240		.2070		.0250		LONDON PR143,1034-66	$
		6.829	2.547	3.000		.0780		.0080		BADIER CEA R3037-66	
		7.757	3.041	3.500		.0990		.C160		HAQUE PR152,1148-66	*
		8.873	3.636	4.100		.0360		.C21C		MOTT PR177,1966-69	
		11.487	5.028	5.500		.0320		.0040		MOTT NP B13,565-69	
		11.487	5.028	5.500		.0320		.0040		MOTT PR177,1966-69	
		12.421	5.526	6.000		.0160		.CC3C		CCLLEY NC53A,522-68	
		16.165	7.521	8.000		.0166		.0029		BIRNBAUM,PL31B,484-70	
		20.100	9.618	10.100		.0120		.0040		ADERHOLZ NPB7,111-68	
		20.100	9.618	10.100		.0110		.0018		ABCLV AMSTERDAM-71	
		31.163	15.514	16.000		8.4000	MICROB	2.5000		BIRNBAUM,PL31B,484-70	
	THRESHOLD	2.33	.15	.41						26 DATA POINTS LISTED	

FIT OF SIGMA AGAINST PLAB GEV/C

8 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .90
K = .31 +- .25 N = -1.40 +- .42

..... REACTION 430											
Y*+1385PI- (BACKWARD)		6.829	2.547	3.000		.0110		.C040		BADIER CEA N532-65	
		8.873	3.636	4.100	U	3.0000	MICROB			MOTT PR177,1966-69	
		11.487	5.028	5.500		2.0000	MICROB	1.0000		MOTT PR177,1966-69	
	THRESHOLD	2.33	.15	.41						3 DATA POINTS LISTED	
..... REACTION 431											
Y*+1385PI-=LPI+PI-		2.456	.216	.510		1.2000		.3000		BERGE PRL6,557-61	
		2.612	.299	.620		1.8000		.3000		BERGE PRL6,557-61	
		2.825	.413	.760		1.2000		.1400		BERGE PRL6,557-61	
		2.969	.489	.850		1.0000		.2500		BERGE PRL6,557-61	
		3.473	.758	1.150		1.3000		.2CCC		ALSTON UCRL9587-61	
		3.786	.925	1.330		.4400		.09CC		GORDON NC61A,353-69	
		4.627	1.373	1.800		.3900		.0300		SMITH,380,ATHENS65	
		4.899	1.518	1.950		.4000		.06CC		SMITH,38C,ATHENS65	
		7.757	3.041	3.500		.0900		.0150		HAQUE PR152,1148-66	
		8.873	3.636	4.100		.0330		.C110		MOTT PR177,1966-69	
		11.487	5.028	5.500		.0290		.0040		MOTT PR177,1966-69	
		12.421	5.526	6.000		.0150		.CC3C		CCLLEY NC35A,522-68	
	THRESHOLD	2.33	.15	.41						12 DATA POINTS LISTED	

FOOTNOTES

U=UPPER LIMIT
1=AVERAGE VALUE OVER A BAND OF MOMENTA
*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
$=DATA POINT NOT USED IN FITTING OR PLOTTING

K-P

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 432										
Y*+1385PI-=SOPI+PI-	8.873	3.636	4.100	U	8.0000	MICROB			MOTT PR177,1966-69	
	11.487	5.028	5.500		2.0000	MICROB	1.0000		MOTT PR177,1966-69	
THRESHOLD	2.33	.15	.41						2 DATA POINTS LISTED	
..... REACTION 433										
Y*+1385PI-PIO	5.429	1.800	2.240		.2040		.0330		LONDON PR143,1034-66	
	8.873	3.636	4.100		.1300		.0580		MOTT PR177,1966-69	
	11.487	5.028	5.500		.6700		.0150		MOTT PR177,1966-69	
	20.100	9.618	10.100		7.0000	MICROB	3.0000		ADERHOLZ NPB5,606-68	
THRESHOLD	2.77	.38	.73						4 DATA POINTS LISTED	
..... REACTION 434										
Y*+1385PI-PIO=LPI+PI-PIO	8.873	3.636	4.100		.1180		.0530		MOTT PR177,1966-69	
	11.487	5.028	5.500		.0610		.0140		MOTT PR177,1966-69	
	20.100	9.618	10.100		7.0000	MICROB	3.0000		ADERHOLZ NPB5,606-68	
THRESHOLD	2.77	.38	.73						3 DATA POINTS LISTED	
..... REACTION 435										
Y*+1385PI-ZO	20.100	9.618	10.100		.0510		.0090		ADERHOLZ NPB5,606-68	
THRESHOLD	3.26	.64	1.02							
..... REACTION 436										
Y*+1385PI-ZO=LPI+PI-ZO	20.100	9.618	10.100		.0510		.0090		ADERHOLZ NPB5,606-68	
THRESHOLD	3.26	.64	1.02							
..... REACTION 437										
Y*(+,-)1385(KK)=LKKOPI	9.153	3.785	4.250		5.0000	MICROB	2.0000		ABRAMS PR175,1697-68	
THRESHOLD	5.63	1.91	2.35							
..... REACTION 438										
Y*+1385RH-	4.627	1.373	1.800		.1500		.0400		SMITH,380,ATHENS65	*
	4.899	1.518	1.950		.2200		.0600		SMITH,380,ATHENS65	*
	6.829	2.547	3.000		.0640		.0110		BADIER CEA R3037-66	
	8.873	3.636	4.100		.0700		.0410		MOTT PR177,1966-69	
	11.487	5.028	5.500		.0160		.0070		MOTT PR177,1966-69	
	12.421	5.526	6.000		.0160		.0040		COLLEY NC53A,522-68	
	20.100	9.618	10.100	U	1.0000	MICROB			ADERHOLZ NPB5,606-68	
	20.100	9.618	10.100	U	.2000	MICROB			ABCLV AMSTERDAM-71	
THRESHOLD	4.60	1.36	1.79						8 DATA POINTS LISTED	
..... REACTION 439										
Y*+1385RH- (BACKWARD)	6.829	2.547	3.000		.0110		.0040		BADIER CEA N532-65	
	8.873	3.636	4.100		.0180		.0090		MOTT PR177,1966-69	
	11.487	5.028	5.500	U	2.0000	MICROB			MOTT PR177,1966-69	
THRESHOLD	4.60	1.36	1.79						3 DATA POINTS LISTED	
..... REACTION 440										
Y*+1385RH-=LPI+PI-PIO	4.627	1.373	1.800		.1400		.0400		SMITH,380,ATHENS65	
	4.899	1.518	1.950		.2000		.0500		SMITH,380,ATHENS65	
	8.873	3.636	4.100		.0640		.0370		MOTT PR177,1966-69	
	11.487	5.028	5.500		.0150		.0060		MOTT PR177,1966-69	
	12.421	5.526	6.000		.0160		.0040		COLLEY NC53A,522-68	
THRESHOLD	4.60	1.36	1.79						5 DATA POINTS LISTED	
..... REACTION 441										
Y*+1385DEL-=Y*+13852PI	9.619	4.033	4.500	U	2.0000	MICROB			BARNES PRL23,610-69	V
THRESHOLD	5.59	1.89	2.33							
..... REACTION 442										
Y*+1385DEL-=Y*+1385KK	9.619	4.033	4.500	U	3.0000	MICROB			BARNES PRL23,610-69	V
THRESHOLD	5.59	1.89	2.33							
..... REACTION 443										
Y*+1385DEL-=Y*+1385ETPI-	9.619	4.033	4.500		2.4000	MICROB	1.0000		BARNES PRL23,610-69	1
THRESHOLD	5.59	1.89	2.33							
..... REACTION 444										
Y*+1385DELO=LETPI+PI-	8.873	3.636	4.100	U	6.0000	MICROB			AMMAR PR2,430-70	
	11.487	5.028	5.500	U	9.0000	MICROB	3.0000		AMMAR PR2,430-70	
THRESHOLD	5.59	1.89	2.33						2 DATA POINTS LISTED	
..... REACTION 445										
Y*-1385PI+	2.825	.413	.760		1.3200		.1500		BERGE PRL6,557-61	*
	2.969	.489	.850		.9900		.2700		BERGE PRL6,557-61	*
	3.251	.639	1.020		2.4000		.3000			
	3.353	.694	1.080		2.2000		.3000			
	3.438	.739	1.130		2.6000		.3000			
	3.473	.758	1.150		1.9800		.3300		ALSTON UCRL9587-61	*
	3.611	.832	1.230		1.4300		.0900		HUWE PR181,1824-69	1
	3.857	.962	1.370		1.3300		.0700		HUWE PR181,1824-69	1
	4.141	1.114	1.530		.6800		.0500		HUWE PR181,1824-69	1
	4.392	1.248	1.670		.4800		.0500		HUWE PR181,1824-69	1
	5.429	1.800	2.240		.0460		.0180		LONDON PR143,1034-66	$
	5.487	1.831	2.272		1.2000		.2000		SHAF. PRL13,212-64 PC	$
	5.601	1.892	2.334		1.1500		.1200		SHAF. PRL13,212-64 PC	$
	5.735	1.963	2.407		1.2000		.1200		SHAF. PRL13,212-64 PC	$
	5.862	2.031	2.476		.6900		.0900		SHAF. PRL13,212-64 PC	$
	5.998	2.104	2.550		.5500		.1400		SHAF. PRL13,212-64 PC	$

FOOTNOTES

U=UPPER LIMIT
*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
V=1 TRUE AND U TRUE
1=AVERAGE VALUE OVER A BAND OF MOMENTA
$=DATA POINT NOT USED IN FITTING OR PLOTTING

********** K-P **********

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 445										
Y*-1385PI+	6.829	2.547	3.000		.0220		.0030		BADIER CEA R3037-66	
(CONTINUATION)	7.757	3.041	3.500		7.0000	MICROB	4.0000		CELNIKER PC	
	12.421	5.526	6.000		1.5000	MICROB	1.5000		PALER PC-68	
	20.100	9.618	10.100	U	1.0000	MICROB			ADERHOLZ NPB5,606-68	
	20.100	9.618	10.100	U	.5000	MICROB			ABCLV AMSTERDAM-71	
THRESHOLD	2.33	.15	.41						21 DATA POINTS LISTED	
..... REACTION 446										
Y*-1385PI+ (BACKWARD)	6.829	2.547	3.000		.0100		.0020		BADIER CEA N532-65	
	8.873	3.636	4.100		8.0000	MICROB	8.0000		MOTT PR177,1966-69	
	11.487	5.028	5.500		1.0000	MICROB	1.0000		MOTT PR177,1966-69	
THRESHOLD	2.33	.15	.41						3 DATA POINTS LISTED	
..... REACTION 447										
Y*-1385PI+=LPI+PI-	2.825	.413	.760		1.2000		.1400		BERGE PRL6,557-61	
	2.969	.489	.850		.9000		.2500		BERGE PRL6,557-61	
	3.473	.758	1.150		1.8000		.3000		ALSTON UCRL9587-61	
	3.786	.925	1.330		.6800		.1100		GORDON NC61A,353-69	
THRESHOLD	2.33	.15	.41						4 DATA POINTS LISTED	
..... REACTION 448										
Y*-1385PI+PI0	5.429	1.800	2.240		.1630		.0330		LONDON PR143,1034-66	
	8.873	3.636	4.100		.0450		.0580		MOTT PR177,1966-69	
	11.487	5.028	5.500		.0100		.0180		MOTT PR177,1966-69	
THRESHOLD	2.77	.38	.73						3 DATA POINTS LISTED	
..... REACTION 449										
Y*-1385PI+PI0=LPI+PI-PI0	8.873	3.636	4.100		.0410		.0530		MOTT PR177,1966-69	
	11.487	5.028	5.500		9.0000	MICROB	16.0000		MOTT PR177,1966-69	
	20.100	9.618	10.100	U	1.0000	MICROB			ADERHOLZ NPB5,606-68	
THRESHOLD	2.77	.38	.73						3 DATA POINTS LISTED	
..... REACTION 450										
Y*-1385PI+Z0=LPI+PI-Z0	20.100	9.618	10.100		.0160		.0060		ADERHOLZ NPB5,606-68	
THRESHOLD	3.26	.64	1.02							
..... REACTION 451										
Y*-13852PI+PI-=L2PI+2PI-	20.100	9.618	10.100		7.0000	MICROB	4.0000		ADERHOLZ NPB5,606-68	
THRESHOLD	3.26	.64	1.02							
..... REACTION 452										
Y*-13852PI+PI-PI0=L5PI	20.100	9.618	10.100		7.0000	MICROB	4.0000		ADERHOLZ NP B5,606-68	
THRESHOLD	3.78	.92	1.33							
..... REACTION 453										
Y*-13852PI+PI-Z0=L5PIZ0	20.100	9.618	10.100		.0550		.0120		ADERHOLZ NP B5,606-68	
THRESHOLD	4.33	1.21	1.63							
..... REACTION 454										
Y*-1385RH+	6.829	2.547	3.000		.0120		.0040		BADIER CEA R3037-66	
	8.873	3.636	4.100		.0270		.0150		MOTT PR177,1966-69	
	11.487	5.028	5.500		7.0000	MICROB	3.0000		MOTT PR177,1966-69	
	20.100	9.618	10.100	U	.2000	MICROB			ABCLV AMSTERDAM-71	
THRESHOLD	4.60	1.36	1.79						4 DATA POINTS LISTED	
..... REACTION 455										
Y*-1385RH+ (BACKWARD)	6.829	2.547	3.000		7.0000	MICROB	3.0000		BADIER CEA N532-65	
	8.873	3.636	4.100		.0270		.0150		MOTT PR177,1966-69	
	11.487	5.028	5.500		7.0000	MICROB	3.0000		MOTT PR177,1966-69	
THRESHOLD	4.60	1.36	1.79						3 DATA POINTS LISTED	
..... REACTION 456										
Y*-1385RH+=LPI+PI-PI0	8.873	3.636	4.100		.0250		.0140		MOTT PR177,1966-69	
	11.487	5.028	5.500		6.0000	MICROB	3.0000		MOTT PR177,1966-69	
THRESHOLD	4.60	1.36	1.79						2 DATA POINTS LISTED	
..... REACTION 457										
Y*013852PI+2PI-=L5PI	20.100	9.618	10.100		5.5000	MICROB	4.0000		ADERHOLZ NP B5,606-68	
THRESHOLD	3.78	.92	1.33							
..... REACTION 458										
Y*01385PI+PI-	5.429	1.800	2.240		.1890		.0330		LONDON PR143,1034-66	
	8.873	3.636	4.100		.1350		.0700		MOTT PR177,1966-69	
	11.487	5.028	5.500		.0340		.0140		MOTT PR177,1966-69	
THRESHOLD	2.77	.38	.73						3 DATA POINTS LISTED	
..... REACTION 459										
Y*01385PI+PI-=LPI+PI-PI0	8.873	3.636	4.100		.1230		.0640		MOTT PR177,1966-69	
	11.487	5.028	5.500		.0310		.0130		MOTT PR177,1966-69	
	20.100	9.618	10.100		7.0000	MICROB	3.0000		ADERHOLZ NPB5,606-68	
THRESHOLD	2.77	.38	.73						3 DATA POINTS LISTED	
..... REACTION 460										
Y*01385PI0	6.829	2.547	3.000		.0200		.0150		BADIER CEA N532-65	
THRESHOLD	2.33	.15	.41							
..... REACTION 461										
Y*01385PI0=S+PI-PI0	3.786	.925	1.330		.0100		.0100		GORDON NC61A,353-69	
THRESHOLD	2.33	.15	.41							

FOOTNOTES

U=UPPER LIMIT

K-P

		S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 462										
Y*01385RH0		4.627	1.373	1.800	0.0000	MICROB	30.0000		SMITH,380,ATHENS65	$
		4.899	1.518	1.950	0.0000	MICROB	40.0000		SMITH,380,ATHENS65	$
		6.829	2.547	3.000	.0300		.0070	.0060	BADIER CEA R3037-66	
		8.873	3.636	4.100	.0230		.C300		MOTT PR177,1966-69	
		11.487	5.028	5.500	7.0000	MICROB	6.0000		MOTT PR177,1966-69	
		20.100	9.618	10.100	2.0000	MICROB	1.0000		ABCLV AMSTERDAM-71	
	THRESHOLD	4.60	1.36	1.79					6 DATA POINTS LISTED	
..... REACTION 463										
Y*01385RH0=LPI+PI-PI0		4.627	1.373	1.800	0.0000	MICROB	30.0000		SMITH,380,ATHENS65	$
		4.899	1.518	1.950	0.0000	MICROB	40.0000		SMITH,380,ATHENS65	$
		8.873	3.636	4.100	.0210		.0270		MOTT PR177,1966-69	
		11.487	5.028	5.500	6.0000	MICROB	5.0000		MOTT PR177,1966-69	
	THRESHOLD	4.60	1.36	1.79					4 DATA POINTS LISTED	
..... REACTION 464										
Y*01385PHI		5.172	1.663	2.100	0.0000	MICROB	ERROR NOT GIVEN		LINDSEY PR147,913-66	$
		6.053	2.133	2.580	7.5000	MICROB	3.0000		LINDSEY PR147,913-66	1
		8.873	3.636	4.100	.0120		.C12C		MOTT PR177,1966-69	
		11.487	5.028	5.500	9.0000	MICROB	5.0000		MOTT PR177,1966-69	
	THRESHOLD	5.78	1.99	2.43					4 DATA POINTS LISTED	
..... REACTION 465										
Y*01385PHI=LK+K-PI0		8.873	3.636	4.100	5.0000	MICROB	5.0000		MOTT PR177,1966-69	
		11.487	5.028	5.500	4.0000	MICROB	2.0000		MOTT PR177,1966-69	
	THRESHOLD	5.78	1.99	2.43					2 DATA POINTS LISTED	
..... REACTION 466										
Y1405PI+PI-		5.429	1.800	2.240	.0420		.0250		LONDON PR143,1034-66	
		8.818	3.606	4.070	.0670		.023C		LOOS CC01195/116-68	
		11.487	5.028	5.500	.0460		.C10C		KRUSE PR177,1951-69	
	THRESHOLD	2.84	.42	.77					3 DATA POINTS LISTED	
..... REACTION 467										
Y1405PI+PI-=S(+,-)PIPI+PI-		8.818	3.606	4.070	.0450		.016C		LOOS CC01195/116-68	
		11.487	5.028	5.500	.0310		.0070		KRUSE PR177,1951-69	
	THRESHOLD	2.84	.42	.77					2 DATA POINTS LISTED	
..... REACTION 468										
Y1405PI0		2.825	.413	.760	.1200		.0600		BASTIEN PRL6,702-61	
		2.969	.489	.850	.2200		.11CC		BASTIEN PRL6,702-61	
		3.473	.758	1.150	.1500		.1700		ALSTCN PRL6,702-61 PC	
		3.786	.925	1.330	.2300		.0500		GORDON NC61A,353-69	*
		5.429	1.800	2.240	.0540		.022C		LONDON PR143,1034-66	
		6.829	2.547	3.000	.0600		.0060		BADIER CEA R3037-66	
		7.757	3.041	3.500	.0900		.0150		HAQUE PR152,1148-66	*
		11.487	5.028	5.500	.0120		.0060		KRUSE PR177,1951-69	
	THRESHOLD	2.39	.18	.46					8 DATA POINTS LISTED	
..... REACTION 469										
Y1405PI0=S(+,-)PI(-,+)PI0		6.829	2.547	3.000	.0600		.0060		BADIER CEA R3037-66	
	THRESHOLD	2.39	.18	.46						
..... REACTION 470										
Y1405PI0=S+PI-PI0		3.786	.925	1.330	.1700		.04CC		GORDON NC61A,353-69	
	THRESHOLD	2.39	.18	.46						
..... REACTION 471										
Y1405PI0=S-PI+PI0		3.786	.925	1.330	.0600		.0300		GORDON NC61A,353-69	
		11.487	5.028	5.500	4.0000	MICROB	2.0000		KRUSE PR177,1951-69	
	THRESHOLD	2.39	.18	.46					2 DATA POINTS LISTED	
..... REACTION 472										
Y1405K+K-		8.818	3.606	4.070	7.0000	MICROB	7.0000		LOOS CC01195/116-68	
		11.430	4.998	5.470	5.0000	MICROB	4.0000		LOOS CC01195/116-68	
	THRESHOLD	5.73	1.96	2.40					2 DATA POINTS LISTED	
..... REACTION 473										
Y1405K0K0=S(+,-)K0K0PI+,-		9.153	3.785	4.250	5.0000	MICROB	2.0000		ABRAMS PR175,1697-68	
	THRESHOLD	5.73	1.96	2.40						
..... REACTION 474										
Y1405RH0		8.818	3.606	4.070	.0250		.0250		LOOS CC01195/116-68	
		11.487	5.028	5.500	.0210		.012C		KRUSE PR177,1951-69	
	THRESHOLD	4.69	1.40	1.83					2 DATA POINTS LISTED	
..... REACTION 475										
Y1405RH0=S(+,-)PIPI+PI-		8.818	3.606	4.070	.0170		.0170		LOOS CC01195/116-68	
		11.487	5.028	5.500	.0140		.0080		KRUSE PR177,1951-69	
	THRESHOLD	4.69	1.40	1.83					2 DATA POINTS LISTED	
..... REACTION 476										
Y1405OM		11.487	5.028	5.500	.0210		.0080		KRUSE PR177,1951-69	
	THRESHOLD	4.79	1.46	1.89						
..... REACTION 477										
Y1405OM=S(+,-)PIPI+PI-PI0		11.487	5.028	5.500	.0130		.0050		KRUSE PR177,1951-69	
	THRESHOLD	4.79	1.46	1.89						

FOOTNOTES

$=DATA POINT NOT USED IN FITTING OR PLOTTING
1=AVERAGE VALUE OVER A BAND OF MOMENTA
*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS

********** K-P **********

	S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 478								
Y1405PHI	8.818	3.606	4.070	.0280	.0170		LOOS CCO1195/116-68	
	11.487	5.028	5.500	.0150	.0080		KRUSE PR177,1951-69	
THRESHOLD	5.88	2.04	2.49				2 DATA POINTS LISTED	
..... REACTION 479								
Y1405PHI=S(+,-)K+K-PI(-,+)	11.487	5.028	5.500	5.0000 MICROB	3.0000		KRUSE PR177,1951-69	
THRESHOLD	5.88	2.04	2.49					
..... REACTION 480								
Y1520PI+PI-	5.429	1.800	2.240	.1450	.0390		LONDON PR143,1034-66	
	7.757	3.041	3.500	.0500	.0300		MUSGRAVE RPP/M/29-67	
	8.818	3.606	4.070	.2060	.0720		LOOS CCO1195/116-68	
	11.487	5.028	5.500	.1300	.0270		KRUSE PR177,1951-69	
THRESHOLD	3.24	.63	1.01				4 DATA POINTS LISTED	
..... REACTION 481								
Y1520PI+PI-=PK-PI+PI-	4.990	1.566	2.000	.0910	.0130		DAUBER PL24B,525-67	
THRESHOLD	3.24	.63	1.01					
..... REACTION 482								
Y1520PI+PI-=LPI+PI+PI-PI-	4.990	1.566	2.000	.0230	.0030		DAUBER PL24B,525-67	
THRESHOLD	3.24	.63	1.01					
..... REACTION 483								
Y1520PI+PI-=S+PI+PI-PI-	4.990	1.566	2.000	.0420	.0060		DAUBER PL24B,525-67	
THRESHOLD	3.24	.63	1.01					
..... REACTION 484								
Y1520PI+PI-=S-PI+PI+PI-	4.990	1.566	2.000	.0380	.0050		DAUBER PL24B,525-67	
THRESHOLD	3.24	.63	1.01					
..... REACTION 485								
Y1520PI+PI-=S(+,-)PIPI+PI-	8.818	3.606	4.070	.0700	.0250		LOOS CCO1195/116-68	
	11.487	5.028	5.500	.0440	.0090		KRUSE PR177,1951-69	
THRESHOLD	3.24	.63	1.01				2 DATA POINTS LISTED	
..... REACTION 486								
Y1520PI0	3.786	.925	1.330	.3400	.1400		GORDON NC61A,353-69	*
	3.786	.925	1.330	.9900	.1600		FICENEC PR169,1034-68	A
	5.429	1.800	2.240	.1940	.0390		GALLOWAY NPB8,545-68	
	6.829	2.547	3.000	.1630	.0210		BADIER CEA R3037-66	
	7.757	3.041	3.500	.0730	.0240		HAQUE PR152,1148-66	*
	11.487	5.028	5.500	.0260	.0130		KRUSE PR177,1951-69	
THRESHOLD	2.76	.38	.72				6 DATA POINTS LISTED	
..... REACTION 487								
Y1520PI0=PK-PI0	2.852	.427	.777	.2700	.0600		BURKHARD,NPB14,106-70	
	2.898	.451	.806	.0900	.0700		BURKHARD,NPB14,106-70	
	2.949	.479	.838	.4300	.1100		BURKHARD,NPB14,106-70	
	2.974	.492	.853	.3100	.0800		BURKHARD,NPB14,106-70	
	3.008	.510	.874	.4600	.0900		BURKHARD,NPB14,106-70	
	3.041	.527	.894	.4900	.0900		BURKHARD,NPB14,106-70	
	3.057	.536	.904	.7000	.1200		BURKHARD,NPB14,106-70	
	3.077	.547	.916	.7000	.1500		BURKHARD,NPB14,106-70	
	3.108	.564	.935	.6400	.1000		BURKHARD,NPB14,106-70	
	3.140	.580	.954	.6900	.1100		BURKHARD,NPB14,106-70	
	3.167	.595	.970	.5100	.0800		BURKHARD,NPB14,106-70	
	3.202	.613	.991	.6000	.0900		BURKHARD,NPB14,106-70	
	3.254	.641	1.022	.6400	.1100		BURKHARD,NPB14,106-70	
	3.291	.661	1.044	.4200	.0800		BURKHARD,NPB14,106-70	
	3.320	.676	1.061	.4200	.0800		BURKHARD,NPB14,106-70	
	3.353	.694	1.080	.1700	.0700		BURKHARD,NPB14,106-70	
	3.390	.714	1.102	.3000	.0900		BURKHARD,NPB14,106-70	
	3.416	.727	1.117	.2600	.0700		BURKHARD,NPB14,106-70	
	3.445	.743	1.134	.2500	.0900		BURKHARD,NPB14,106-70	
	3.478	.760	1.153	.2300	.0800		BURKHARD,NPB14,106-70	
	3.514	.780	1.174	.1600	.0700		BURKHARD,NPB14,106-70	
	3.530	.788	1.183	.2400	.0900		BURKHARD,NPB14,106-70	
	3.604	.828	1.226	.1500	.1400		BURKHARD,NPB14,106-70	
	3.786	.925	1.330	.1400	.0100		FICENEC PR169,1034-68	
	6.201	2.212	2.660	.1070	.0180		FICENEC PR175,1725-68	1
THRESHOLD	2.76	.38	.72				25 DATA POINTS LISTED	
..... REACTION 488								
Y1520PI0=LPI+PI-PI0	2.852	.427	.777	.0300	.0500		BURKHARD,NPB14,106-70	
	2.974	.492	.853	.0800	.0300		BURKHARD,NPB14,106-70	
	3.008	.510	.874	.1000	.0400		BURKHARD,NPB14,106-70	
	3.041	.527	.894	.1600	.0700		BURKHARD,NPB14,106-70	
	3.057	.536	.904	.1900	.0500		BURKHARD,NPB14,106-70	
	3.077	.547	.916	.0800	.0600		BURKHARD,NPB14,106-70	
	3.108	.564	.935	.2100	.0500		BURKHARD,NPB14,106-70	
	3.140	.580	.954	.1700	.0600		BURKHARD,NPB14,106-70	
	3.167	.595	.970	.1900	.0400		BURKHARD,NPB14,106-70	
	3.202	.613	.991	.1900	.0500		BURKHARD,NPB14,106-70	
	3.254	.641	1.022	.2000	.0500		BURKHARD,NPB14,106-70	
	3.291	.661	1.044	.0600	.0400		BURKHARD,NPB14,106-70	
	3.320	.676	1.061	.0600	.0300		BURKHARD,NPB14,106-70	
	3.353	.694	1.080	.0300	.0300		BURKHARD,NPB14,106-70	
	3.390	.714	1.102	.1000	.0400		BURKHARD,NPB14,106-70	
	3.416	.727	1.117	.0100	.0200		BURKHARD,NPB14,106-70	
	3.445	.743	1.134	.0800	.0400		BURKHARD,NPB14,106-70	

FOOTNOTES

*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
A=SUM OF ALL FINAL STATES WHICH INCLUDE THE GIVEN PARTICLES
1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 488									
Y1520PIO=LPI+PI-PIO	3.478	.760	1.153	.0400		.0400		BURKHARD,NPB14,106-70	
(CONTINUATION)	3.514	.780	1.174	.0300		.0500		BURKHARD,NPB14,106-70	
	3.530	.788	1.183	.0100		.0300		BURKHARD,NPB14,106-70	
	3.604	.828	1.226	.0300		.0400		BURKHARD,NPB14,106-70	
	7.757	3.041	3.500	9.0000	MICROB	3.0000		HAQUE PR152,1148-66	
THRESHOLD	2.76	.38	.72					22 DATA POINTS LISTED	
..... REACTION 489									
Y1520PIO=S(+,-)PI(-,+)PIO	2.852	.427	.777	.1800		.1000		BURKHARD,NPB14,106-70	
	2.898	.451	.806	.1200		.0900		BURKHARD,NPB14,106-70	
	2.949	.479	.838	.2100		.1300		BURKHARD,NPB14,106-70	
	2.974	.492	.853	.3700		.0800		BURKHARD,NPB14,106-70	
	3.008	.510	.874	.5600		.0800		BURKHARD,NPB14,106-70	
	3.041	.527	.894	.5200		.1200		BURKHARD,NPB14,106-70	
	3.057	.536	.904	.6200		.0900		BURKHARD,NPB14,106-70	
	3.077	.547	.916	.7300		.1600		BURKHARD,NPB14,106-70	
	3.108	.564	.935	.8400		.1200		BURKHARD,NPB14,106-70	
	3.140	.580	.954	.8000		.1500		BURKHARD,NPB14,106-70	
	3.167	.595	.970	.4400		.0800		BURKHARD,NPB14,106-70	
	3.202	.613	.991	.5300		.1200		BURKHARD,NPB14,106-70	
	3.254	.641	1.022	.3800		.0900		BURKHARD,NPB14,106-70	
	3.291	.661	1.044	.3800		.0800		BURKHARD,NPB14,106-70	
	3.320	.676	1.061	.3600		.0900		BURKHARD,NPB14,106-70	
	3.353	.694	1.080	.2700		.0800		BURKHARD,NPB14,106-70	
	3.390	.714	1.102	.3400		.0700		BURKHARD,NPB14,106-70	
	3.416	.727	1.117	.2800		.0900		BURKHARD,NPB14,106-70	
	3.445	.743	1.134	.0600		.0800		BURKHARD,NPB14,106-70	
	3.478	.760	1.153	.2200		.0800		BURKHARD,NPB14,106-70	
	3.514	.780	1.174	.1300		.0900		BURKHARD,NPB14,106-70	
	3.530	.788	1.183	.2400		.0800		BURKHARD,NPB14,106-70	
	3.604	.828	1.226	.3000		.1600		BURKHARD,NPB14,106-70	
	7.757	3.041	3.500	.0300		.0100		HAQUE PR152,1148-66	
THRESHOLD	2.76	.38	.72					24 DATA POINTS LISTED	
..... REACTION 490									
Y1520PIO=S+PI-PIO	3.786	.925	1.330	.0700		.0400		GORDON NC61A,353-69	
THRESHOLD	2.76	.38	.72						
..... REACTION 491									
Y1520PIO=S-PI+PIO	3.786	.925	1.330	.0700		.0400		GORDON NC61A,353-69	
	11.487	5.028	5.500	4.0000	MICROB	2.0000		KRUSE PR177,1951-69	
THRESHOLD	2.76	.38	.72					2 DATA POINTS LISTED	
..... REACTION 492									
Y1520PIO=(S+,-PI/LPI+PI)PI	6.829	2.547	3.000	.0950		.0300		BADIER,650,DUB64	
THRESHOLD	2.76	.38	.72						
..... REACTION 493									
Y1520K+K-	11.430	4.998	5.470	.0180		.0080		LCOS CCO1195/116-68	
	20.100	9.618	10.100	4.5000	MICROB	1.5000		ADERHOLZ NPB14,255-69	
THRESHOLD	6.29	2.26	2.71					2 DATA POINTS LISTED	
..... REACTION 494									
Y1520K+K-=PK+K-K-	19.912	9.518	10.000	4.5000	MICROB	1.5000		ADERHOLZ,NPB14,255-69	
THRESHOLD	6.29	2.26	2.71						
..... REACTION 495									
Y1520K0K0=S(+,-)K0K0PI+,-	9.153	3.785	4.250	4.0000	MICROB	2.0000		ABRAMS PR175,1697-68	
THRESHOLD	6.29	2.26	2.71						
..... REACTION 496									
Y1520RHO	6.829	2.547	3.000	.3000		.0750		BADIER,650,DUB64	*
	8.818	3.606	4.070	.0530		.0530		LCOS CCO1195/116-68	
	11.487	5.028	5.500	.0320		.0210		KRUSE PR177,1951-69	
THRESHOLD	5.20	1.68	2.11					3 DATA POINTS LISTED	
..... REACTION 497									
Y1520RHO=S(+,-)PIPI+PI-	8.818	3.606	4.070	.0180		.0180		LCOS CCO1195/116-68	
	11.487	5.028	5.500	.0110		.0070		KRUSE PR177,1951-69	
THRESHOLD	5.20	1.68	2.11					2 DATA POINTS LISTED	
..... REACTION 498									
Y1520RHO=(S+,-PI/NK)PI+PI-	6.829	2.547	3.000	.2000		.0500		BADIER,650,DUB64	
THRESHOLD	5.20	1.68	2.11						
..... REACTION 499									
Y1520OM	6.829	2.547	3.000	.0670		.0160		BADIER CEA R3037-66	
	8.315	3.338	3.800	.0870		.0130		CARMONY PRL18,615-67	*
	11.487	5.028	5.500	.0400		.0150		KRUSE PR177,1951-69	
THRESHOLD	5.30	1.73	2.17					3 DATA POINTS LISTED	
..... REACTION 500									
Y1520OM=POMK-	8.315	3.338	3.800	.0200		.0030		CARMONY PRL18,615-67	
THRESHOLD	5.30	1.73	2.17						

FOOTNOTES

*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS

K-P

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 501										
Y1520OM=S(+,-)PIPI+PI- PIO	11.487	5.028	5.500		.0110		.0040		KRUSE PR177,1951-69	
THRESHOLD	5.20	1.68	2.11							
..... REACTION 502										
Y1520PHI	11.487	5.028	5.500		.0100		.C1CC		KRUSE PR177,1951-69	
THRESHOLD	6.45	2.35	2.80							
..... REACTION 503										
Y1520PHI=S(+,-)K+K-PI(-,+)	11.487	5.028	5.500		1.5000	MICROB	1.5000		KRUSE PR177,1951-69	
THRESHOLD	6.45	2.35	2.80							
..... REACTION 504										
Y*+1660PI-	3.786	.925	1.330		.6200		.2500		FICENEC PR169,1034-68	*
	7.757	3.041	3.500	U	.1700		.C400		HAQUE PR152,1148-66	
	8.818	3.606	4.070	U	.1500		.0500		LOOS CCO1195/116-68	
	11.487	5.028	5.500		.0360		.0160		KRUSE PR177,1951-69	
	20.100	9.618	10.100		3.0000	MICROB	2.0000		ADERHOLZ NPB5,606-68	
THRESHOLD	3.24	.63	1.01						5 DATA POINTS LISTED	
..... REACTION 505										
Y*+1660PI-=PK0PI-	3.786	.925	1.330		.0500		.0200		FICENEC PR169,1034-68	
THRESHOLD	3.24	.63	1.01							
..... REACTION 506										
Y*+1660PI-=LPI+PI-	3.786	.925	1.330		.0600		.0600		GORDON NC61A,353-69	
	7.757	3.041	3.500	U	7.0000	MICROB			HAQUE PR152,1148-66	
THRESHOLD	3.24	.63	1.01						2 DATA POINTS LISTED	
..... REACTION 507										
Y*+1660PI-=LPI+PI-PIO	7.757	3.041	3.500		.0110		.0060		HAQUE PR152,1148-66	
THRESHOLD	3.24	.63	1.01							
..... REACTION 508										
Y*+1660PI-=(SPI)+PI-	7.757	3.041	3.500	U	.0140				HAQUE PR152,1148-66	
THRESHOLD	3.24	.63	1.01							
..... REACTION 509										
Y*+1660PI-=S(+,-)PIPI+PI-	7.757	3.041	3.500		.0210		.0050		HAQUE PR152,1148-66	
	11.487	5.028	5.500		9.0000	MICROB	4.0000		KRUSE PR177,1951-69	
THRESHOLD	3.24	.63	1.01						2 DATA POINTS LISTED	
..... REACTION 510										
Y*+1660PI-=(SPIPI)+PI-	7.757	3.041	3.500		.0320		.C08C		HAQUE PR152,1148-66	
	8.818	3.606	4.070		.0110		.0060		LOOS CCO1195/116-68	
THRESHOLD	3.24	.63	1.01						2 DATA POINTS LISTED	
..... REACTION 511										
Y*+1660PI-=S+,02PI/S+,-3PI	6.829	2.547	3.000		.1200		.C3CC		BADIER,650,DUB64	
THRESHOLD	3.24	.63	1.01							
..... REACTION 512										
Y*-1660PI+=NK-PI+	3.786	.925	1.330		0.0000	MICROB	10.0000		FICENEC PR169,1034-68	$
THRESHOLD	3.24	.63	1.01							
..... REACTION 513										
Y*-1660PI+=LPI+PI-	3.786	.925	1.330		.1200		.0300		GORDON NC61A,353-69	
THRESHOLD	3.24	.63	1.01							
..... REACTION 514										
Y*01660PI+PI-=S(+,-)3PI	8.818	3.606	4.070		.0380		.C180		LOOS CCO1195/116-68	
	11.430	4.998	5.470		.0270		.0080		LOOS CCO1195/116-68	
THRESHOLD	3.76	.91	1.32						2 DATA POINTS LISTED	
..... REACTION 515										
Y*01660PIO=PK-PIO	3.786	.925	1.330		.0200		.02CC		FICENEC PR169,1034-68	
THRESHOLD	3.24	.63	1.01							
..... REACTION 516										
Y*01660PIO=S+PI-PIO	3.786	.925	1.330		.0700		.0500		GORDON NC61A,353-69	
THRESHOLD	3.24	.63	1.01							
..... REACTION 517										
Y*01660RHO=S(+,-)PIPI+PI-	8.818	3.606	4.070		.0210		.0210		LOOS CCO1195/116-68	
	11.430	4.998	5.470		.0100		.0070		LOOS CCO1195/116-68	
THRESHOLD	5.95	2.08	2.53						2 DATA POINTS LISTED	
..... REACTION 518										
Y*016600M=POMK-	8.315	3.338	3.800	U	5.0000	MICROB			CARMONY PRL18,615-67	
THRESHOLD	5.97	2.09	2.53							
..... REACTION 519										
Y1670PIO=S(+,-)PI(-,+)PIO	7.757	3.041	3.500		.0400		.C1CC		HAQUE PR152,1148-66	
THRESHOLD	3.28	.65	1.03							

FOOTNOTES

*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
U=UPPER LIMIT
$=DATA POINT NOT USED IN FITTING OR PLOTTING

K-P

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 520										
Y*+1690PI-=LPI+PI-	8.873	3.636	4.100		.0330		.0270		MOTT PR177,1966-69	
	11.487	5.028	5.500		.0250		.0050		MOTT PR177,1966-69	
	20.100	9.618	10.100		3.0000	MICROB	2.0000		ADERHOLZ NPB5,606-68	
THRESHOLD	3.35	.69	1.08						3 DATA POINTS LISTED	
..... REACTION 521										
Y*+1690PI- (BACKWARD)	8.873	3.636	4.100	U	3.0000	MICROB			MOTT PR177,1966-69	
	11.487	5.028	5.500		3.0000	MICROB	3.0000		MOTT PR177,1966-69	
THRESHOLD	3.35	.69	1.08						2 DATA POINTS LISTED	
..... REACTION 522										
Y*+1770PI-	4.990	1.566	2.000		.4100		.1800		DAUBER PR153,1403-67	
THRESHOLD	3.65	.85	1.25							
..... REACTION 523										
Y*+1770PI-=PK0PI-	3.786	.925	1.330		0.0000	MICROB	10.0000		FICENEC PR169,1034-68	$
THRESHOLD	3.65	.85	1.25							
..... REACTION 524										
Y*+1770PI-=S+PI-PI0	3.786	.925	1.330		.0300		.0300		GORDON NC61A,353-69	
THRESHOLD	3.65	.85	1.25							
..... REACTION 525										
Y*+1770PI-=Y1520PI+PI-	4.990	1.566	2.000		9.0000	MICROB	3.0000		DAUBER PR153,1403-67	J
THRESHOLD	3.65	.85	1.25							
..... REACTION 526										
Y*-1770PI+=NK-PI+	3.786	.925	1.330		.0200		.0100		FICENEC PR169,1034-68	
THRESHOLD	3.65	.85	1.25							
..... REACTION 527										
Y*01770PI0=PK-PI0	3.786	.925	1.330		.1000		.0200		FICENEC PR169,1034-68	
THRESHOLD	3.65	.85	1.25							
..... REACTION 528										
Y*01770PI0=S+PI-PI0	3.786	.925	1.330		.0200		.0200		GORDON NC61A,353-69	
THRESHOLD	3.65	.85	1.25							
..... REACTION 529										
Y1820PI+PI-=S(+,-)PIPI+PI-	8.818	3.606	4.070		.0210		.0100		LOOS CO01195/116-68	
THRESHOLD	4.41	1.26	1.68							
..... REACTION 530										
Y1820PI0=S(+,-)PI(-,+)PI0	7.757	3.041	3.500		.0400		.0100		HAQUE PR152,1148-66	
THRESHOLD	3.84	.95	1.36							
..... REACTION 531										
Y1820RH0	8.818	3.606	4.070		.0170		.0170		LOOS CO01195/116-68	
THRESHOLD	6.66	2.45	2.91							
..... REACTION 532										
Y*(1815/1765)OM=POMK-	8.315	3.338	3.800		.0230		.0070		CARMONY PRL18,615-67	
THRESHOLD	6.50	2.37	2.82							
..... REACTION 533										
Y*+1910PI-=LPI+PI-	8.873	3.636	4.100		.0150		.0150		MOTT PR177,1966-69	
	11.487	5.028	5.500		2.0000	MICROB	2.0000		MOTT PR177,1966-69	
THRESHOLD	4.20	1.15	1.56						2 DATA POINTS LISTED	
..... REACTION 534										
Y*(2065/2100)OM=POMK-	8.315	3.338	3.800		.0270		.0080		CARMONY PRL18,615-67	
THRESHOLD	8.32	3.34	3.80							
..... REACTION 535										
XI	20.100	9.618	10.100		.0720		.0080	.0060	BARTSCH NPB4,326-68	A
THRESHOLD	3.29	.66	1.04							
..... REACTION 536										
XI-	7.757	3.041	3.500		.1500		ERROR NOT GIVEN		HAQUE,654,DUB64	A
	9.153	3.785	4.250		.1314		.0087		ABRAMS PR175,1697-68	A
	10.552	4.531	5.000		.0960		.0100		BARNES,662,DUB64	A
	11.487	5.028	5.500		.1438		.0093		GOLDWASSE,PR1,1960-70	A
	12.421	5.526	6.000		.1480		.2400		SCOTTER NC62A,1057-69	A
THRESHOLD	1.74	0.00	0.00						5 DATA POINTS LISTED	
..... REACTION 537										
XI-PK+AP	24.786	12.116	12.600	U	.6000	MICROB			LACH BAPS12,540-67	
THRESHOLD	13.62	6.16	6.64							
..... REACTION 538										
XI-PK-AXI+	24.786	12.116	12.600	U	.6000	MICROB			LACH BAPS12,540-67	
THRESHOLD	16.58	7.74	8.22							
..... REACTION 539										
XI-PAL	24.786	12.116	12.600	U	1.3000	MICROB			LACH BAPS12,540-67	
THRESHOLD	11.38	4.97	5.44							

FOOTNOTES

U=UPPER LIMIT
$=DATA POINT NOT USED IN FITTING OR PLOTTING
J=ONLY THE DECAY MODE INTO PROTON AND K- OF THE Y* IS CONSIDERED
A=SUM OF ALL FINAL STATES WHICH INCLUDE THE GIVEN PARTICLES

********** K-P **********

		S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 540											
XI-PI+PI+PI-Z0		11.487	5.028	5.500		7.5000	MICROB	1.5000		GOLDWASSE,PR1,1960-70	
	THRESHOLD	4.08	1.08	1.50							
..... REACTION 541											
XI-PI+Z0		10.552	4.531	5.000		4.0000	MICROB	2.0000		BARNES,662,DUB64	
		11.487	5.028	5.500		.0164		.0027		GOLDWASSE,PR1,1960-70	
	THRESHOLD	3.03	.52	.89						2 DATA POINTS LISTED	
..... REACTION 542											
XIK		20.100	9.618	10.100	U	.6000	MICROB			BARTSCH NPB4,326-68	W
	THRESHOLD	3.29	.66	1.04							
..... REACTION 543											
XI-K+		3.353	.694	1.080	U	7.0000	MICROB			BERGE PR147,945-66	
		3.594	.822	1.220		.0490		.0090		BERGE PR147,945-66	
		3.604	.828	1.226	U	.1000				ARMENTER. NPB8,233-68	
		3.669	.862	1.263		.1290		.0210		BURGUN NPB8,447-68	
		3.762	.912	1.316		.1180		.0180		BURGUN NPB8,447-68	
		3.786	.925	1.330		.1100		.0500		TROWER PR170,1207-68	
		3.786	.925	1.330		.1040		.0120		BERGE PR147,945-66	
		3.853	.961	1.368		.1390		.0190		BURGUN NPB8,447-68	
		3.936	1.005	1.415		.1470		.0200		BURGUN NPB8,447-68	
		3.963	1.019	1.430		.1590		.0200		BERGE PR147,945-66	
		4.020	1.049	1.462		.1480		.0130		BURGUN NPB8,447-68	
		4.034	1.057	1.470		.1800		.0400		COOPER,298,CERN62	
		4.105	1.095	1.510		.1480		.0090		BERGE PR147,945-66	
		4.113	1.099	1.514		.1530		.0170		BURGUN NPB8,447-68	
		4.170	1.129	1.546		.1570		.0150		BURGUN NPB8,447-68	
		4.266	1.181	1.600		.1330		.0180		BERGE PR147,945-66	
		4.277	1.186	1.606		.1830		.0190		BURGUN NPB8,447-68	
		4.362	1.231	1.653		.1790		.0140		BURGUN NPB8,447-68	
		4.446	1.276	1.700		.1750		.0160		DAUBER PR179,1262-69	
		4.455	1.281	1.705		.1460		.0190		BURGUN NPB8,447-68	
		4.520	1.316	1.741		.1690		.0180		BURGUN NPB8,447-68	
		4.609	1.363	1.790		.1140		.0140			
		4.627	1.373	1.800		.1130		.0120		CARMONY PRL12,482-64	
		4.627	1.373	1.800		.1220		.0180		BURGUN NPB8,447-68	
		4.705	1.414	1.843		.0990		.0160		BURGUN NPB8,447-68	
		4.863	1.498	1.930		.1000		.0120			
		4.899	1.518	1.950		.0990		.0110		CARMONY PRL12,482-64	
		4.990	1.566	2.000		.0950		.0060		TRIPPE PR158,1334-67	
		5.172	1.663	2.100		.1120		.0100		DAUBER PR179,1262-69	
		5.429	1.800	2.240		.0910		.0160		LONDON PR143,1034-66	$
		5.832	2.015	2.460		.0500		.0080			
		5.851	2.025	2.470		.0870		.0140		DAUBER PR179,1262-69	
		6.164	2.192	2.640		.0580		.0060		DAUBER PR179,1262-69	
		6.219	2.221	2.670		.0400		.0090			
		6.829	2.547	3.000		.0210		.0040		MERRILL,NPB18,403-70	
		7.757	3.041	3.500		.0160		.0050		HAQUE PR152,1148- 66	
		9.153	3.785	4.250		.0154		.0030		ABRAMS PR175,1697-68	
		10.552	4.531	5.000		2.0000	MICROB	1.0000		BARNES,662,DUB64	S
		11.487	5.028	5.500		5.0000	MICROB	1.5000		GOLDWASSE,PR1,1960-70	
		12.421	5.526	6.000		7.7000	MICROB	3.0000		SCOTTER NC62A,1057-69	
	THRESHOLD	3.29	.66	1.04						40 DATA POINTS LISTED	
..... REACTION 544											
XIKPI		20.100	9.618	10.100	U	2.6000	MICROB			BARTSCH NPB4,326-68	W
	THRESHOLD	3.82	.94	1.35							
..... REACTION 545											
XIK2PI		20.100	9.618	10.100		2.2000	MICROB	3.1000	1.6000	BARTSCH NPB4,326-68	A
	THRESHOLD	4.38	1.24	1.67							
..... REACTION 546											
XIK3PI		20.100	9.618	10.100		.0220		.0040		BARTSCH NPB4,326-68	A
	THRESHOLD	4.99	1.57	2.00							
..... REACTION 547											
XIK4PI		20.100	9.618	10.100		2.1000	MICROB	4.0000		BARTSCH NPB4,326-68	A
	THRESHOLD	5.64	1.91	2.35							
..... REACTION 548											
XIK5PI		20.100	9.618	10.100		.0150		.0040		BARTSCH NPB4,326-68	A
	THRESHOLD	6.32	2.28	2.72							
..... REACTION 549											
XIK6PI		20.100	9.618	10.100		7.0000	MICROB	2.0000		BARTSCH NPB4,326-68	A
	THRESHOLD	7.04	2.66	3.12							
..... REACTION 550											
XIK7PI		20.100	9.618	10.100		3.0000	MICROB	ERROR NOT GIVEN		BARTSCH NPB4,326-68	A
	THRESHOLD	7.81	3.07	3.53							
..... REACTION 551											
XI-K+PI+PI+PI-PI-		10.552	4.531	5.000		3.0000	MICROB	2.0000		BARNES,662,DUB64	
		11.487	5.028	5.500		2.0000	MICROB	1.2000		GOLDWASSE,PR1,1960-70	
		12.421	5.526	6.000		4.5000	MICROB	2.3000		SCOTTER NC62A,1057-69	
	THRESHOLD	5.64	1.91	2.35						3 DATA POINTS LISTED	
..... REACTION 552											
XI-K+PI+PI+PI-PI-PI0		11.487	5.028	5.500		1.3000	MICROB	.8000		GOLDWASSE,PR1,1960-70	
		12.421	5.526	6.000		3.3000	MICROB	2.0000		SCOTTER NC62A,1057-69	
	THRESHOLD	6.32	2.28	2.72						2 DATA POINTS LISTED	

FOOTNOTES

W=A TRUE AND U TRUE
A=SUM OF ALL FINAL STATES WHICH INCLUDE THE GIVEN PARTICLES
U=UPPER LIMIT
$=DATA POINT NOT USED IN FITTING OR PLOTTING
S=STATISTICAL ERROR ONLY

K-P

		S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 553											
XI-K+PI+PI-		6.053	2.133	2.580		5.9000	MICROB	ERROR	NOT GIVEN	SMITH PRL14,25-65	1
		6.164	2.192	2.640		.0110		.0020		DAUBER PR179,1262-69	
		6.829	2.547	3.000		.0140		.0040		BADIER PL16,171-65	
		6.829	2.547	3.000		.0140		.0040		MERRILL,NPB18,403-70	
		9.153	3.785	4.250		.0150		.0027		ABRAMS PR175,1697-68	
		10.552	4.531	5.000		9.0000	MICROB	3.0000		BARNES,662,DUB64	
		11.487	5.028	5.500		.0175		.0025		GOLDWASSE,PR1,1960-70	
		12.421	5.526	6.000		.0138		.0035		SCOTTER NC62A,1057-69	
	THRESHOLD	4.38	1.24	1.67						8 DATA POINTS LISTED	
..... REACTION 554											
XI-K+PI+PI-PIO		9.153	3.785	4.250		.0161		.0026		ABRAMS PR175,1697-68	
		10.552	4.531	5.000		.0100		.0030		BARNES,662,DUB64	
		11.487	5.028	5.500		.0263		.0032		GOLDWASSE,PR1,1960-70	
		12.421	5.526	6.000		.0250		.0052		SCOTTER NC62A,1057-69	
	THRESHOLD	4.99	1.57	2.00						4 DATA POINTS LISTED	
..... REACTION 555											
XI-K+PI+PI-ZO		9.153	3.785	4.250		2.0000	MICROB	.9000		ABRAMS PR175,1697-68	
		10.552	4.531	5.000		3.0000	MICROB	2.0000		BARNES,662,DUB64	
		11.487	5.028	5.500		4.7000	MICROB	1.2000		GOLDWASSE,PR1,1960-70	
	THRESHOLD	5.64	1.91	2.35						3 DATA POINTS LISTED	
..... REACTION 556											
XI-K+PIO		4.070	1.076	1.490	U	.6000	MICROB			BERGE PR147,945-66	
		4.159	1.123	1.540		3.4000	MICROB	1.4000		BERGE PR147,945-66	
		4.266	1.181	1.600		8.0000	MICROB	4.0000		BERGE PR147,945-66	
		4.446	1.276	1.700		.0160		.0040		DAUBER PR179,1262-69	
		4.627	1.373	1.800		.0240		.0050		CARMONY PRL12,482-64	
		4.899	1.518	1.950		.0230		.0050		CARMONY PRL12,482-64	
		5.172	1.663	2.100		.0360		.0050		DAUBER PR179,1262-69	
		5.429	1.800	2.240		.0540		.0130		LONDON PR143,1034-66	
		5.851	2.025	2.470		.0580		.0100		DAUBER PR179,1262-69	
		6.053	2.133	2.580		.0243		ERROR	NOT GIVEN	SMITH PRL14,25-65	1
		6.164	2.192	2.640		.0400		.0040		DAUBER PR179,1262-69	
		6.829	2.547	3.000		.0200		.0040		MERRILL,NPB18,403-70	
		7.757	3.041	3.500		.0100		ERROR	NOT GIVEN	HAQUE,654,DUB64	
		9.153	3.785	4.250		.0128		.0025		ABRAMS PR175,1697-68	
		10.552	4.531	5.000		5.0000	MICROB	2.0000		BARNES,662,DUB64	
		11.487	5.028	5.500		.0102		.0020		GOLDWASSE,PR1,1960-70	
		12.421	5.526	6.000		6.3000	MICROB	2.2000		SCOTTER NC62A,1057-69	
	THRESHOLD	3.82	.94	1.35						17 DATA POINTS LISTED	
..... REACTION 557											
XI-K+PIOPIO		6.829	2.547	3.000		5.5000	MICROB	1.0000		BADIER,593,DUB64	
		10.552	4.531	5.000		3.0000	MICROB	2.0000		BARNES,662,DUB64	
	THRESHOLD	4.38	1.24	1.67						2 DATA POINTS LISTED	
..... REACTION 558											
XI-K+ZO		6.829	2.547	3.000		5.5000	MICROB	1.0000		BADIER,593,DUB64	
		6.829	2.547	3.000		5.0000	MICROB	2.0000		MERRILL,NPB18,403-70	
		9.153	3.785	4.250		.0114		.0022		ABRAMS PR175,1697-68	
		10.552	4.531	5.000		4.0000	MICROB	2.0000		BARNES,662,DUB64	
		11.487	5.028	5.500		.0111		.0015		GOLDWASSE,PR1,1960-70	
	THRESHOLD	4.38	1.24	1.67						5 DATA POINTS LISTED	
..... REACTION 559											
XI-K+K+K-		11.487	5.028	5.500		.9000	MICROB	.5000		GOLDWASSE,PR1,1960-70	
	THRESHOLD	7.85	3.09	3.55							
..... REACTION 560											
XI-K+KSKL		11.487	5.028	5.500		1.7000	MICROB	.9000		GOLDWASSE,PR1,1960-70	
	THRESHOLD	7.89	3.11	3.57							
..... REACTION 561											
XI-KOPI+		4.070	1.076	1.490		1.8000	MICROB	1.0000		BERGE PR147,945-66	
		4.159	1.123	1.540		5.9000	MICROB	1.9000		BERGE PR147,945-66	
		4.266	1.181	1.600		.0240		.0070		BERGE PR147,945-66	
		4.446	1.276	1.700		.0540		.0070		DAUBER PR179,1262-69	
		4.627	1.373	1.800		.0590		.0070		CARMONY PRL12,482-64	
		4.899	1.518	1.950		.0520		.0070		CARMONY PRL12,482-64	
		5.172	1.663	2.100		.0970		.0090		DAUBER PR179,1262-69	
		5.429	1.800	2.240		.1190		.0300		LONDON PR143,1034-66	
		5.851	2.025	2.470		.0700		.0110		DAUBER PR179,1262-69	
		6.053	2.133	2.580		.0399		ERROR	NOT GIVEN	SMITH PRL14,25-65	1
		6.164	2.192	2.640		.0670		.0050		DAUBER PR179,1262-69	
		6.829	2.547	3.000		.0400		.0050		MERRILL,NPB18,403-70	
		7.757	3.041	3.500		.0300		ERROR	NOT GIVEN	HAQUE,654,DUB64	
		9.153	3.785	4.250		.0194		.0028		ABRAMS PR175,1697-68	
		10.552	4.531	5.000		.0160		.0050		BARNES,662,DUB64	
		11.487	5.028	5.500		.0135		.0024		GOLDWASSE,PR1,1960-70	
		12.421	5.526	6.000		8.0000	MICROB	2.7000		SCOTTER NC62A,1057-69	
	THRESHOLD	3.82	.94	1.35						17 DATA POINTS LISTED	
..... REACTION 562											
XI-KOPI+PI+PI+PI-PI-		11.487	5.028	5.500		.5000	MICROB	.5000		GOLDWASSE,PR1,1960-70	
		12.421	5.526	6.000		.9000	MICROB	.9000		SCOTTER NC62A,1057-69	
	THRESHOLD	6.32	2.28	2.72						2 DATA POINTS LISTED	
..... REACTION 563											
XI-KOPI+PI+PI-		9.153	3.785	4.250		5.4000	MICROB	1.3000		ABRAMS PR175,1697-68	
		10.552	4.531	5.000		4.0000	MICROB	2.0000		BARNES,662,DUB64	
		11.487	5.028	5.500		.0129		.0020		GOLDWASSE,PR1,1960-70	
		12.421	5.526	6.000		9.7000	MICROB	3.4000		SCOTTER NC62A,1057-69	
	THRESHOLD	4.99	1.57	2.00						4 DATA POINTS LISTED	

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA
U=UPPER LIMIT

K-P

		S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 564											
XI-K0PI+PI+PI-P10		9.153	3.785	4.250		1.5000	MICROB	1.1000		ABRAMS PR175,1697-68	
		11.487	5.028	5.500		7.0000	MICROB	2.7000		GOLDWASSE,PR1,1960-70	
		12.421	5.526	6.000		8.1000	MICROB	3.8000		SCOTTER NC62A,1057-69	
	THRESHOLD	5.64	1.91	2.35						3 DATA POINTS LISTED	
..... REACTION 565											
XI-K0PI+PI+PI-Z0		11.487	5.028	5.500		1.8000	MICROB	1.2000		GOLDWASSE,PR1,1960-70	
	THRESHOLD	6.32	2.28	2.72							
..... REACTION 566											
XI-K0PI+P10		6.053	2.133	2.580		.0115		ERROR NOT GIVEN		SMITH PRL14,25-65	1
		6.164	2.192	2.640		.0120		.0030		DAUBER PR179,1262-69	
		6.829	2.547	3.000		.0140		.0020		MERRILL,NPB18,403-70	
		9.153	3.785	4.250		.0288		.0050		ABRAMS PR175,1697-68	
		10.552	4.531	5.000		.0180		.0060		BARNES,662,DUB64	
		11.487	5.028	5.500		.0202		.0050		GOLDWASSE,PR1,1960-70	
		12.421	5.526	6.000		.0208		.0073		SCOTTER NC62A,1057-69	
	THRESHOLD	4.38	1.24	1.67						7 DATA POINTS LISTED	
..... REACTION 567											
XI-K0PI+Z0		9.153	3.785	4.250		5.9000	MICROB	3.7000		ABRAMS PR175,1697-68	
		10.552	4.531	5.000		9.0000	MICROB	4.0000		BARNES,662,DUB64	
		11.487	5.028	5.500		.0138		.0037		GOLDWASSE,PR1,1960-70	
	THRESHOLD	4.99	1.57	2.00						3 DATA POINTS LISTED	
..... REACTION 568											
XI-(KPI)+		3.963	1.019	1.430	U	2.0000	MICROB			BERGE PR147,945-66	
		4.105	1.095	1.510		5.6000	MICROB	1.4000		BERGE PR147,945-66	
		4.266	1.181	1.600		3.2000	MICROB	8.0000		BERGE PR147,945-66	
		4.446	1.276	1.700		.0550		.0090		BERGE PR147,945-66	3
	THRESHOLD	3.69	.87	1.27						4 DATA POINTS LISTED	
..... REACTION 569											
XI-K+725		5.429	1.800	2.240	U	.0100				LONDON PR143,1034-66	
	THRESHOLD	4.18	1.14	1.55							
..... REACTION 570											
XI-RH+K0		12.421	5.526	6.000		5.0000	MICROB	4.0000		SCOTTER NC62A,1057-69	
	THRESHOLD	6.63	2.44	2.89							
..... REACTION 571											
XI-RHOK+		12.421	5.526	6.000		3.0000	MICROB	20.0000		SCOTTER NC62A,1057-69	
	THRESHOLD	6.63	2.44	2.89							
..... REACTION 572											
XI-K**890		5.172	1.663	2.100		.0260		.0050		DAUBER PR179,1262-69	
		5.429	1.800	2.240		.0340		.0080		LONDON PR143,1034-66	
		6.090	2.153	2.600		.0355		.0035		DAUBER PR179,1262-69	
		6.829	2.547	3.000		.0150		.0030		BADIER CEA R3037-66	
		7.757	3.041	3.500		.0160		.0040		HAQUE PR152,1148-66	
		9.153	3.785	4.250		.0121		.0034		ABRAMS PR175,1697-68	
		11.487	5.028	5.500		.0104		.0023		GOLDWASSE,PR1,1960-70	
		12.421	5.526	6.000	U	1.6000	MICROB			SCOTTER NC62A,1057-69	
	THRESHOLD	4.88	1.51	1.94						8 DATA POINTS LISTED	
..... REACTION 573											
XI-K**890=XI-K+P10		5.172	1.663	2.100		8.0000	MICROB	3.0000		DAUBER PR179,1262-69	
		6.090	2.153	2.600		.0130		.0020		DAUBER PR179,1262-69	
	THRESHOLD	4.88	1.51	1.94						2 DATA POINTS LISTED	
..... REACTION 574											
XI-K**890=XI-K0PI+		5.172	1.663	2.100		.0180		.0040		DAUBER PR179,1262-69	
		6.090	2.153	2.600		.0221		.0026		DAUBER PR179,1262-69	
	THRESHOLD	4.88	1.51	1.94						2 DATA POINTS LISTED	
..... REACTION 575											
XI-K**890PI+PI-		9.153	3.785	4.250		7.8000	MICROB	3.4000		ABRAMS PR175,1697-68	
		11.487	5.028	5.500		.0128		.0052		GOLDWASSE,PR1,1960-70	
	THRESHOLD	6.20	2.21	2.66						2 DATA POINTS LISTED	
..... REACTION 576											
XI-K**890P10		11.487	5.028	5.500		.0130		.0056		GOLDWASSE,PR1,1960-70	
		12.421	5.526	6.000		9.0000	MICROB	50.0000		SCOTTER NC62A,1057-69	
	THRESHOLD	5.52	1.85	2.29						2 DATA POINTS LISTED	
..... REACTION 577											
XI-K**890P10 (NO XI*)		5.998	2.104	2.550		1.0000	MICROB	2.0000		DAUBER PR179,1262-69	1
	THRESHOLD	5.50	1.84	2.28							
..... REACTION 578											
XI-K**890P10=XI-K0PI+P10		9.153	3.785	4.250		7.2000	MICROB	4.6000		ABRAMS PR175,1697-68	
	THRESHOLD	5.52	1.85	2.29							
..... REACTION 579											
XI-K*0890PI+		11.487	5.028	5.500		.0105		.0056		GOLDWASSE,PR1,1960-70	
	THRESHOLD	5.52	1.85	2.29							
..... REACTION 580											
XI-K*0890PI+ (NO XI*)		5.998	2.104	2.550		1.0000	MICROB	1.0000		DAUBER PR179,1262-69	1
	THRESHOLD	5.52	1.85	2.29							

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA
U=UPPER LIMIT
3=CROSS SECTION CORRECTED FOR SCREENING IN THE DEUTERON

K-P

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 581										
XI-K*089OPI+=XI-K(+,0)2PI	9.153	3.785	4.250		8.7000	MICROB	5.0000		ABRAMS PR175,1697-68	
THRESHOLD	5.52	1.85	2.29							
..... REACTION 582										
XI-K*089OPI+PIO	11.487	5.028	5.500		.0101		.0042		GOLDWASSE,PR1,1960-70	
THRESHOLD	6.20	2.21	2.66							
..... REACTION 583										
XI-K*089OPI+PIO=XI-K+3PI	9.153	3.785	4.250		1.4000	MICROB	3.3000		ABRAMS PR175,1697-68	
THRESHOLD	6.18	2.20	2.65							
..... REACTION 584										
XI-PHIK+	11.487	5.028	5.500		2.4000	MICROB	1.6000		GOLDWASSE,PR1,1960-70	
THRESHOLD	8.03	3.19	3.65							
..... REACTION 585										
XIOK+PI-	4.070	1.076	1.490		2.5000	MICROB	1.5000		BERGE PR147,945-66	
	4.159	1.123	1.540		6.9000	MICROB	2.4000		BERGE PR147,945-66	
	4.266	1.181	1.600		.0250		.0090		BERGE PR147,945-66	
	4.446	1.276	1.700		.0340		.0070		DAUBER PR179,1262-69	
	5.172	1.663	2.100		.0600		.0090		DAUBER PR179,1262-69	
	5.429	1.800	2.240		.0500		.0150		LONDON PR143,1034-66	
	5.851	2.025	2.470		.0570		.0120		DAUBER PR179,1262-69	
	6.164	2.192	2.640		.0650		.0090		DAUBER PR179,1262-69	
	6.829	2.547	3.000		8.0000	MICROB	4.0000		BADIER CEA N532-65	
	6.829	2.547	3.000		8.0000	MICROB	4.0000		MERRILL,NPB18,403-70	
THRESHOLD	3.82	.94	1.35						10 DATA POINTS LISTED	
..... REACTION 586										
XIOKO	3.353	.694	1.080		.0460		.0350		BERGE PR147,945-66	1
	3.594	.822	1.220		.0320		.0140		BERGE PR147,945-66	
	3.604	.828	1.226	U	.1000				ARMENTER. NPB8,233-68	
	3.669	.862	1.263		.0330		.0200		BURGUN NPB8,447-68	
	3.762	.912	1.316		.0330		.0200		BURGUN NPB8,447-68	
	3.786	.925	1.330		.0420		.0190		BERGE PR147,945-66	
	3.853	.961	1.368		.0800		.0300		BURGUN NPB8,447-68	
	3.936	1.005	1.415		.0530		.0260		BURGUN NPB8,447-68	
	3.963	1.019	1.430		.0340		.0190		BERGE PR147,945-66	
	4.020	1.049	1.462		.0440		.0150		BURGUN NPB8,447-68	
	4.105	1.095	1.510		.0780		.0110		BERGE PR147,945-66	
	4.113	1.099	1.514		.0990		.0270		BURGUN NPB8,447-68	
	4.170	1.129	1.546		.0780		.0250		BURGUN NPB8,447-68	
	4.266	1.181	1.600		.0910		.0280		BERGE PR147,945-66	
	4.277	1.186	1.606		.0970		.0300		BURGUN NPB8,447-68	
	4.362	1.231	1.653		.0930		.0220		BURGUN NPB8,447-68	
	4.446	1.276	1.700		.1000		.0230		DAUBER PR179,1262-69	
	4.455	1.281	1.705		.0690		.0200		BURGUN NPB8,447-68	
	4.520	1.316	1.741		.0590		.0210		BURGUN NPB8,447-68	
	4.627	1.373	1.800		.0710		.0240		BURGUN NPB8,447-68	
	4.705	1.414	1.843		.0360		.0160		BURGUN NPB8,447-68	
	5.172	1.663	2.100		.0250		.0070		DAUBER PR179,1262-69	
	5.851	2.025	2.470		.0240		.0110		DAUBER PR179,1262-69	
	6.164	2.192	2.640		.0150		.0040		DAUBER PR179,1262-69	
	6.829	2.547	3.000		.0320		.0080		MERRILL,NPB18,403-70	
	9.153	3.785	4.250		.0105		.0055		ABRAMS PR175,1697-68	
	10.179	4.332	4.800		3.0000	MICROB	ERROR NOT GIVEN			
THRESHOLD	3.29	.66	1.04						27 DATA POINTS LISTED	
..... REACTION 587										
XIOKOPI+PI-	6.053	2.133	2.580		9.8000	MICROB	ERROR NOT GIVEN		SMITH PRL14,25-65	1
	6.164	2.192	2.640		.0100		.0030		DAUBER PR179,1262-69	
	9.153	3.785	4.250		.0296		.0048		ABRAMS PR175,1697-68	
THRESHOLD	4.38	1.24	1.67						3 DATA POINTS LISTED	
..... REACTION 588										
XIOKOPI+PI-ZO	9.153	3.785	4.250		.0133		.0037		ABRAMS PR175,1697-68	
THRESHOLD	5.64	1.91	2.35							
..... REACTION 589										
XIOKOPIO	4.070	1.076	1.490	U	2.0000	MICROB			BERGE PR147,945-66	
	4.159	1.123	1.540		2.2000	MICROB	2.2000		BERGE PR147,945-66	
	4.266	1.181	1.600		.0230		.0140		BERGE PR147,945-66	
	4.446	1.276	1.700		.0220		.0130		BERGE PR147,945-66	
THRESHOLD	3.82	.94	1.35						4 DATA POINTS LISTED	
..... REACTION 590										
XIOKOZO	9.153	3.785	4.250		.0153		.0043		ABRAMS PR175,1697-68	
THRESHOLD	4.38	1.24	1.67							
..... REACTION 591										
XIO(KPI)O	4.105	1.095	1.510		5.8000	MICROB	1.8000		BERGE PR147,945-66	
	4.266	1.181	1.600		.0480		.0170		BERGE PR147,945-66	
	4.446	1.276	1.700		.0670		.0160		BERGE PR147,945-66	
THRESHOLD	3.69	.87	1.27						3 DATA POINTS LISTED	
..... REACTION 592										
XIOK*+89OPI-=XIOKOPI+PI-	9.153	3.785	4.250		.0131		.0072		ABRAMS PR175,1697-68	
THRESHOLD	5.52	1.85	2.29							
..... REACTION 593										
XIOK*+89OPI- (NO XI*)	5.998	2.104	2.550		2.0000	MICROB	2.0000		DAUBER PR179,1262-69	1
THRESHOLD	5.52	1.85	2.29							

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA
U=UPPER LIMIT

K-P

		S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 594											
XI0K*0890		5.172	1.663	2.100		.0240		.0060		DAUBER PR179,1262-69	
		5.429	1.800	2.240		.0160		.0070		LONDON PR143,1034-66	
		6.090	2.153	2.600		.0210		.0060		DAUBER PR179,1262-69	
		6.829	2.547	3.000	U	8.0000	MICROB			BADIER CEA R3037-66	
	THRESHOLD	4.88	1.51	1.94						4 DATA POINTS LISTED	
..... REACTION 595											
XI0K*0890=XI0K+PI-		5.172	1.663	2.100		.0160		.0040		DAUBER PR179,1262-69	
		6.090	2.153	2.600		.0140		.0040		DAUBER PR179,1262-69	
	THRESHOLD	4.88	1.51	1.94						2 DATA POINTS LISTED	
..... REACTION 596											
XI*-1530K+		4.070	1.076	1.490		2.5000	MICROB	1.5000		BERGE PR147,945-66	
		4.159	1.123	1.540		9.0000	MICROB	3.0000		BERGE PR147,945-66	
		4.266	1.181	1.600		.0280		.0090		BERGE PR147,945-66	
		4.446	1.276	1.700		.0280		.0060		DAUBER PR179,1262-69	
		4.772	1.450	1.880		.0260		.0070		SCHLEIN PRL11,167-63	
		5.172	1.663	2.100		.0280		.0040		DAUBER PR179,1262-69	
		5.429	1.800	2.240		.0220		.0070		LONDON PR143,1034-66	
		5.926	2.065	2.511		6.0000	MICROB	1.0000		SHAF. PRL13,212-64 PC	
		6.009	2.109	2.556		9.0000	MICROB	1.5000		SHAF. PRL13,212-64 PC	
		6.087	2.151	2.598		.0150		.0030		SHAF. PRL13,212-64 PC	
		6.090	2.153	2.600		.0160		.0030		DAUBER PR179,1262-69	
		6.203	2.213	2.661		9.0000	MICROB	1.5000		SHAF. PRL13,212-64 PC	
		6.393	2.314	2.764		6.0000	MICROB	1.5000		SHAF. PRL13,212-64 PC	
		6.576	2.411	2.863		5.0000	MICROB	1.2000		SHAF. PRL13,212-64 PC	
		6.752	2.505	2.958		3.0000	MICROB	1.2000		SHAF. PRL13,212-64 PC	
		6.829	2.547	3.000		4.0000	MICROB	3.0000		BADIER CEA R3037-66	
		9.153	3.785	4.250		1.5000	MICROB	1.5000		ABRAMS PR175,1697-68	*
		11.487	5.028	5.500	U	.8000	MICROB			GOLDWASSE,PR1,1960-70	
		12.421	5.526	6.000	U	3.9000	MICROB			SCOTTER NC62A,1057-69	
	THRESHOLD	4.10	1.09	1.51						19 DATA POINTS LISTED	
..... REACTION 597											
XI*-1530K+=XI-K+PI0		4.446	1.276	1.700		.0100		.0030		DAUBER PR179,1262-69	
		5.172	1.663	2.100		7.0000	MICROB	2.0000		DAUBER PR179,1262-69	
		6.090	2.153	2.600		4.6000	MICROB	1.0000		DAUBER PR179,1262-69	
		6.829	2.547	3.000		3.0000	MICROB	3.0000		BADIER,650,DUB64	
		9.153	3.785	4.250		.5000	MICROB	.5000		ABRAMS PR175,1697-68	
	THRESHOLD	4.10	1.09	1.51						5 DATA POINTS LISTED	
..... REACTION 598											
XI*-1530K+=XI0K+PI-		4.446	1.276	1.700		.0180		.0050		DAUBER PR179,1262-69	
		5.172	1.663	2.100		.0210		.0040		DAUBER PR179,1262-69	
		6.090	2.153	2.600		.0110		.0025		DAUBER PR179,1262-69	
	THRESHOLD	4.10	1.09	1.51						3 DATA POINTS LISTED	
..... REACTION 599											
XI*-1530K+PI+PI-		11.487	5.028	5.500		6.6000	MICROB	3.0000		GOLDWASSE,PR1,1960-70	
	THRESHOLD	5.31	1.74	2.17							
..... REACTION 600											
XI*-1530K0PI+		11.487	5.028	5.500		8.7000	MICROB	5.7000		GOLDWASSE,PR1,1960-70	
		12.421	5.526	6.000	U	4.0000	MICROB			SCOTTER NC62A,1057-6	
	THRESHOLD	4.68	1.40	1.83						2 DATA POINTS LISTED	
..... REACTION 601											
XI*-1530K0PI+ (NO K*)		5.998	2.104	2.550		6.0000	MICROB	3.0000		DAUBER PR179,1262-69	1
	THRESHOLD	3.82	.94	1.35							
..... REACTION 602											
XI*-1530K0PI+=(XIPI)-K0PI+		9.153	3.785	4.250		.0116		.0062		ABRAMS PR175,1697-68	
	THRESHOLD	3.82	.94	1.35							
..... REACTION 603											
XI*-1530K**890		5.998	2.104	2.550		.0120		.0040		DAUBER PR179,1262-69	1
		6.829	2.547	3.000		.0130		.0100	.0090	BADIER CEA R3037-66	
	THRESHOLD	5.86	2.03	2.47						2 DATA POINTS LISTED	
..... REACTION 604											
XI*01530		12.421	5.526	6.000		.0400		.0100		SCOTTER NC62A,1057-69	A
	THRESHOLD	2.34	.15	.42							
..... REACTION 605											
XI*01530K+PI-		11.487	5.028	5.500		7.1000	MICROB	1.3000		GOLDWASSE,PR1,1960-70	
		12.421	5.526	6.000		8.0000	MICROB	30.0000		SCOTTER NC62A,1057-69	
	THRESHOLD	4.68	1.40	1.83						2 DATA POINTS LISTED	
..... REACTION 606											
XI*01530K+PI-=XI-K+PI+PI-		9.153	3.785	4.250		.2000	MICROB	.6000		ABRAMS PR175,1697-68	
	THRESHOLD	4.68	1.40	1.83							
..... REACTION 607											
XI*01530K+PI- (NO K*)		5.998	2.104	2.550		9.0000	MICROB	2.0000		DAUBER PR179,1262-69	1
	THRESHOLD	4.68	1.40	1.83							
..... REACTION 608											
XI*0K+PI-PI0=XI-K+PI+PI-PI		9.153	3.785	4.250		3.5000	MICROB	1.6000		ABRAMS PR175,1697-68	
	THRESHOLD	5.29	1.73	2.16							

FOOTNOTES

U=UPPER LIMIT
*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
1=AVERAGE VALUE OVER A BAND OF MOMENTA
A=SUM OF ALL FINAL STATES WHICH INCLUDE THE GIVEN PARTICLES

K-P

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 609										
XI*01530K+PI-PI0	11.487	5.028	5.500		.0106		.0017		GOLDWASSE,PR1,1960-70	
THRESHOLD	5.31	1.74	2.17							
..... REACTION 610										
XI*01530K0	4.070	1.076	1.490	U	.7000	MICROB			BERGE PR147,945-66	
	4.159	1.123	1.540		8.0000	MICROB	3.0000		BERGE PR147,945-66	
	4.266	1.181	1.600		.0350		.0110		BERGE PR147,945-66	
	4.446	1.276	1.700		.0700		.0090		DAUBER PR179,1262-69	
	4.772	1.450	1.880		.0530		.0080		SCHLEIN PRL11,167-63	
	5.172	1.663	2.100		.0800		.0110		DAUBER PR179,1262-69	
	5.429	1.800	2.240		.0560		.0110		LONDON PR143,1034-66	
	6.090	2.153	2.600		.0240		.0030		DAUBER PR179,1262-69	
	6.829	2.547	3.000		.0170		.0040		BADIER CEA R3037-66	
	9.153	3.785	4.250		3.0000	MICROB	1.5000		ABRAMS PR175,1697-68	*
	11.487	5.028	5.500		.9000	MICROB	.6000		GOLDWASSE,PR1,1960-70	
	12.421	5.526	6.000	U	1.0000	MICROB			SCOTTER NC62A,1057-69	
THRESHOLD	4.10	1.09	1.51						12 DATA POINTS LISTED	
..... REACTION 611										
XI*01530K0=XI-K0PI+	4.446	1.276	1.700		.0470		.0060		DAUBER PR179,1262-69	
	5.172	1.663	2.100		.0530		.0070		DAUBER PR179,1262-69	
	6.090	2.153	2.600		.0160		.0020		DAUBER PR179,1262-69	
	6.829	2.547	3.000		.0120		.0030		BADIER,650,DUB64	
	9.153	3.785	4.250		2.0000	MICROB	.9000		ABRAMS PR175,1697-68	
THRESHOLD	4.10	1.09	1.51						5 DATA POINTS LISTED	
..... REACTION 612										
XI*01530K0PI+PI-	11.487	5.028	5.500		8.0000	MICROB	1.8000		GOLDWASSE,PR1,1960-70	
THRESHOLD	5.31	1.74	2.17							
..... REACTION 613										
XI*0K0PI+PI-=XI-K02PI+PI-	9.153	3.785	4.250		3.8000	MICROB	1.3000		ABRAMS PR175,1697-68	
THRESHOLD	5.95	2.08	2.53							
..... REACTION 614										
XI*01530K0PI0	11.487	5.028	5.500		2.2000	MICROB	1.6000		GOLDWASSE,PR1,1960-70	
	12.421	5.526	6.000	U	4.0000	MICROB			SCOTTER NC62A,1057-69	
THRESHOLD	4.68	1.40	1.83						2 DATA POINTS LISTED	
..... REACTION 615										
XI*01530K0PI0 (NO K*)	5.998	2.104	2.550		3.0000	MICROB	3.0000		DAUBER PR179,1262-69	1
THRESHOLD	5.29	1.73	2.16							
..... REACTION 616										
XI*01530K0PI0=XI-K0PI+PI0	9.153	3.785	4.250		4.7000	MICROB	2.5000		ABRAMS PR175,1697-68	
THRESHOLD	4.62	1.37	1.80							
..... REACTION 617										
XI*01530K*0890	5.998	2.104	2.550		3.0000	MICROB	2.0000		DAUBER PR179,1262-69	1
	6.829	2.547	3.000		7.0000	MICROB	3.0000		BADIER CEA R3037-66	
	11.487	5.028	5.500		1.9000	MICROB	1.2000		GOLDWASSE,PR1,1960-70	
THRESHOLD	5.86	2.03	2.47						3 DATA POINTS LISTED	
..... REACTION 618										
XI*-1700K+=XI-K+PI0	9.153	3.785	4.250		.2000	MICROB	.4000		ABRAMS PR175,1697-68	
THRESHOLD	4.81	1.47	1.90							
..... REACTION 619										
XI*01700K0=XI-K0PI+	9.153	3.785	4.250		1.5000	MICROB	1.1000		ABRAMS PR175,1697-68	
THRESHOLD	4.81	1.47	1.90							
..... REACTION 620										
XI*-1815K+=LK+K-	6.829	2.547	3.000		4.0000	MICROB	2.0000		BADIER,650,DUB64	
	12.421	5.526	6.000		1.5000	MICROB	ERROR NOT GIVEN		SCOTTER NC62A,1057-69	
THRESHOLD	5.33	1.75	2.19						2 DATA POINTS LISTED	
..... REACTION 621										
XI*01815K0=LK0K0	6.829	2.547	3.000		.0110		.0030		BADIER PL16,171-65	
	9.153	3.785	4.250		1.5000	MICROB	1.6000		ABRAMS PR175,1697-68	
	12.421	5.526	6.000		1.5000	MICROB	ERROR NOT GIVEN		SCOTTER NC62A,1057-69	
THRESHOLD	5.33	1.75	2.19						3 DATA POINTS LISTED	
..... REACTION 622										
XI*01815K0=XI-K0PI+	6.829	2.547	3.000		1.5000	MICROB	1.5000		BADIER PL16,171-65	
THRESHOLD	5.33	1.75	2.19							
..... REACTION 623										
XI*1815K0,+PI+,-=LK+,-K0PI	9.153	3.785	4.250		5.0000	MICROB	3.0000		ABRAMS PR175,1697-68	
THRESHOLD	2.05	0.00	0.00							
..... REACTION 624										
XI*-1930K+	6.090	2.153	2.600		.0240		.0070		DAUBER PR179,1262-69	
THRESHOLD	5.88	2.04	2.48							
..... REACTION 625										
XI*01930K0	6.090	2.153	2.600		4.0000	MICROB	4.0000		DAUBER PR179,1262-69	
THRESHOLD	5.88	2.04	2.48							

FOOTNOTES

U=UPPER LIMIT
*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-P

		S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 626										
OM-		10.552	4.531	5.000	2.0000	MICROB	ERROR NOT GIVEN		BARNES,665,DUB64	A
		11.487	5.028	5.500	.9000	MICROB	.5000		SCHULTZ PR168,1509-68	A
		12.421	5.526	6.000	1.3000	MICROB	.7000		SCOTTER PL26B,474-68	A
	THRESHOLD	2.79	.39	.74					3 DATA POINTS LISTED	
..... REACTION 627										
OM-=LK-		20.100	9.618	10.100	2.5000	MICROB	1.0000		SPETH PL29B,252-69	A
	THRESHOLD	2.79	.39	.74						
..... REACTION 628										
KO		19.912	9.518	10.000	7.5800		.1800		BEUPRE,NPB30,381-71	A
	THRESHOLD	.24	0.00	0.00						
..... REACTION 629										
KOPI+PI-ZO		6.829	2.547	3.000	.5000		.0300		MERRILL,NPB18,403-70	
	THRESHOLD	1.11	0.00	0.00						
..... REACTION 630										
KOZO		2.852	.427	.777	.4200		.1400		ARMENTER. NPB8,233-68	
		2.898	.451	.806	.2600		.1000		ARMENTER. NPB8,233-68	
		2.949	.479	.838	.2400		.1000		ARMENTER. NPB8,233-68	
		2.974	.492	.853	.5900		.1400		ARMENTER. NPB8,233-68	
		3.008	.510	.874	.7700		.1500		ARMENTER. NPB8,233-68	
		3.041	.527	.894	1.1200		.2300		ARMENTER. NPB8,233-68	
		3.057	.536	.904	.5900		.1500		ARMENTER. NPB8,233-68	
		3.077	.547	.916	.8400		.2000		ARMENTER. NPB8,233-68	
		3.108	.564	.935	.5400		.1400		ARMENTER. NPB8,233-68	
		3.140	.580	.954	1.2300		.2100		ARMENTER. NPB8,233-68	
		3.167	.595	.970	.8800		.1300		ARMENTER. NPB8,233-68	
		3.202	.613	.991	1.0300		.2100		ARMENTER. NPB8,233-68	
		3.254	.641	1.022	.8800		.1600		ARMENTER. NPB8,233-68	
		3.291	.661	1.044	1.2900		.2400		ARMENTER. NPB8,233-68	
		3.320	.676	1.061	1.2100		.1600		ARMENTER. NPB8,233-68	
		3.353	.694	1.080	1.6400		.2800		ARMENTER. NPB8,233-68	
		3.390	.714	1.102	1.4100		.2100		ARMENTER. NPB8,233-68	
		3.416	.727	1.117	1.0000		.1600		ARMENTER. NPB8,233-68	
		3.445	.743	1.134	.8800		.1700		ARMENTER. NPB8,233-68	
		3.478	.760	1.153	1.1500		.2100		ARMENTER. NPB8,233-68	
		3.514	.780	1.174	1.1200		.1900		ARMENTER. NPB8,233-68	
		3.530	.788	1.183	1.6800		.2100		ARMENTER. NPB8,233-68	
		3.604	.828	1.226	1.2300		.3100		ARMENTER. NPB8,233-68	
		3.786	.925	1.330	1.6200		.1900		TROWER PR170,1207-68	
		4.990	1.566	2.000	2.7200		.2200		BARGE PRL13,69-64	
		5.429	1.800	2.240	1.7530		.1400		LONDON PR143,1034-66	
		6.829	2.547	3.000	1.5600		.0700		BADIER CEA N532-65	
		6.829	2.547	3.000	1.9900		.0800		MERRILL,NPB18,403-70	
	THRESHOLD	.60	0.00	0.00					28 DATA POINTS LISTED	
..... REACTION 631										
KSKSZO		9.153	3.785	4.250	9.3000	MICROB	2.1000		ABRAMS PR175,1697-68	
	THRESHOLD	1.62	0.00	0.00						
..... REACTION 632										
KSKSKSZO		9.153	3.785	4.250	.8000	MICROB	.8000		ABRAMS PR175,1697-68	
	THRESHOLD	3.14	.58	.95						
..... REACTION 633										
K*01400ET=ET(KPI)O		8.873	3.636	4.100	.3020		.0550		DAVIS BER66	
		11.487	5.028	5.500	.1760		.0410		DAVIS BER66	
	THRESHOLD	3.80	.93	1.34					2 DATA POINTS LISTED	
..... REACTION 634										
AXI+		24.786	12.116	12.600	1.5000	MICROB	ERROR NOT GIVEN		LACH BAPS12,540-67	A
	THRESHOLD	1.74	0.00	0.00						

FOOTNOTES

A=SUM OF ALL FINAL STATES WHICH INCLUDE THE GIVEN PARTICLES

K-N

		S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 635									
TOTAL		2.626	.304	.627	26.2000	4.9000		CHAMBE. PR125,1696-62	
		2.814	.404	.750	31.2000	4.0000		CHAMBE. PR125,1696-62	
		2.906	.453	.808	30.0000	3.2000		CHAMBE. PR125,1696-62	
		3.189	.604	.980	31.2000	1.6000		CCOK PR123,320-61	
		3.195	.607	.984	40.7000	3.2000		CHAMBE. PR125,1696-62	
		3.336	.682	1.067	36.6000	2.6000		CHAMBE. PR125,1696-62	
		3.617	.832	1.230	29.4000	1.1000		CCOK PR123,320-61	
		4.058	1.066	1.480	26.4000	1.0000		CCOK PR123,320-61	
		4.507	1.305	1.730	24.3000	.8000		COOK PR123,320-61	
		4.907	1.518	1.950	22.7000	.9000		CCOK PR123,320-61	
		5.878	2.035	2.480	22.6000	.9000		CCOK PR123,320-61	
		6.784	2.517	2.970	22.4000	.7000		CCOK PR123,320-61	
		6.840	2.547	3.000	21.8000	2.0000		MERRILL NPB18,403-70	
		8.663	3.517	3.980	20.5000	.9000		CCOK PR123,320-61	
		12.439	5.526	6.000	21.9000	.4000		GALBR.PR138B,913-65	
		16.188	7.521	8.000	19.7000	.4000		GALBR.PR138B,913-65	
		19.941	9.518	10.000	20.6000	.4000		GALBR.PR138B,913-65	
		23.695	11.516	12.000	20.2000	.4000		GALBR.PR138B,913-65	
		27.450	13.515	14.000	20.1000	.4000		GALBR.PR138B,913-65	
		31.207	15.514	16.000	20.3000	.6000		GALBR.PR138B,913-65	
		34.963	17.513	18.000	20.3000	1.1000		GALBR.PR138B,913-65	
		38.720	19.512	20.000	19.1000	.8000		ALLABY PL30B,500-69	
		48.113	24.511	25.000	19.7000	.6000		ALLABY PL30B,500-69	
		57.507	29.510	30.000	20.1000	.5000		ALLABY PL30B,500-69	
		66.902	34.510	35.000	19.9000	.5000		ALLABY PL30B,500-69	
		76.296	39.509	40.000	19.4000	.5000		ALLABY PL30B,500-69	
		85.691	44.509	45.000	20.2000	.5000		ALLABY PL30B,500-69	
		95.086	49.509	50.000	19.9000	.6000		ALLABY PL30B,500-69	
		104.481	54.508	55.000	20.4000	1.0000		ALLABY PL30B,500-69	
	THRESHOLD	2.05	0.00	0.00				29 DATA POINTS LISTED	
					FIT OF SIGMA AGAINST PLAB GEV/C				
					15 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .98				
					K = 21.92 +- 1.17 N = -.03 +- .02				
..... REACTION 636									
K-N		2.739	.364	.702	12.9000	1.7000		ARMENTE. NPB18,425-70	
		2.858	.428	.778	14.9000	1.0000		ARMENTE. NPB18,425-70	
		2.953	.478	.837	18.7000	1.0000		ARMENTE. NPB18,425-70	
		3.061	.535	.903	19.3000	1.2000		ARMENTE. NPB18,425-70	
		3.160	.588	.963	20.0000	1.0000		ARMENTE. NPB18,425-70	
		3.280	.652	1.034	17.1000	1.3000		ARMENTE. NPB18,425-70	
		3.389	.710	1.098	13.4000	1.1000		ARMENTE. NPB18,425-70	
		3.518	.779	1.173	12.5000	1.4000		ARMENTE. NPB18,425-70	
		6.840	2.547	3.000	3.4000	.9000		MERRILL,NPB18,403-70	
	THRESHOLD	2.05	0.00	0.00				9 DATA POINTS LISTED	
..... REACTION 637									
INELASTIC		2.739	.364	.702	14.1300	1.6000		ARMENTE. NPB18,425-70	
		2.858	.428	.778	14.3300	.8000		ARMENTE. NPB18,425-70	
		2.953	.478	.837	15.3200	.8000		ARMENTE. NPB18,425-70	
		3.061	.535	.903	19.6600	1.1000		ARMENTE. NPB18,425-70	
		3.160	.588	.963	20.5100	.9000		ARMENTE. NPB18,425-70	
		3.280	.652	1.034	19.9300	1.2000		ARMENTE. NPB18,425-70	
		3.389	.710	1.098	18.4400	1.0000		ARMENTE. NPB18,425-70	
		3.518	.779	1.173	16.5300	1.3000		ARMENTE. NPB18,425-70	
	THRESHOLD	2.46	.22	.51				8 DATA POINTS LISTED	
..... REACTION 638									
PK-PI+2PI-		6.840	2.547	3.000	.1500	.0170		MERRILL,NPB18,403-70	
	THRESHOLD	3.43	.73	1.12					
..... REACTION 639									
PK-PI+2PI-PI0		6.840	2.547	3.000	.0310	.0050		MERRILL,NPB18,403-70	
	THRESHOLD	3.97	1.02	1.43					
..... REACTION 640									
PK-PI-		2.739	.364	.702	.3000	.0800		ARMENTE. NPB18,425-70	
		2.858	.428	.778	.4400	.1000		ARMENTE. NPB18,425-70	
		2.953	.478	.837	.6600	.1100		ARMENTE. NPB18,425-70	
		3.061	.535	.903	1.1200	.1400		ARMENTE. NPB18,425-70	
		3.160	.588	.963	1.4500	.1500		ARMENTE. NPB18,425-70	
		3.280	.652	1.034	1.2900	.1500		ARMENTE. NPB18,425-70	
		3.389	.710	1.098	1.0800	.1400		ARMENTE. NPB18,425-70	
		3.518	.779	1.173	.7900	.1300		ARMENTE. NPB18,425-70	
		6.840	2.547	3.000	.9200	.0600		BARLOTAU,NPB26,557-71	
	THRESHOLD	2.47	.22	.52				9 DATA POINTS LISTED	
..... REACTION 641									
PK-PI-PI0		6.840	2.547	3.000	.6500	.0550		GIACOMEL,PL33B,373-70	
	THRESHOLD	2.93	.47	.82					
..... REACTION 642									
PK-PI-Z0		6.840	2.547	3.000	.2300	.0400		MERRILL,NPB18,403-70	
	THRESHOLD	3.43	.73	1.12					
..... REACTION 643									
PK0PI+3PI-		6.840	2.547	3.000	7.0000 MICROB	3.0000		MERRILL,NPB18,403-70	
	THRESHOLD	3.97	1.02	1.43					
..... REACTION 644									
PK02PI-		6.840	2.547	3.000	.4100	.0300		GIACOMEL,PL33B,373-70	
	THRESHOLD	2.93	.47	.82					

K-N

		S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 645										
PK02PI-PI0		6.840	2.547	3.000	.1300		.0140		MERRILL,NPB18,403-70	
	THRESHOLD	3.43	.73	1.12						
..... REACTION 646										
PK02PI-Z0		6.840	2.547	3.000	.0120		.0070		MERRILL,NPB18,403-70	
	THRESHOLD	3.97	1.02	1.43						
..... REACTION 647										
(P/N)3K		6.840	2.547	3.000	3.0000	MICROB	1.0000		MERRILL NPB18,403-70	A
	THRESHOLD	5.86	2.02	2.47						
..... REACTION 648										
NK-PI+PI-		6.840	2.547	3.000	1.7400		.1300		GIACOMEL,PL33B,373-70	
		11.503	5.028	5.500	1.3000		.2000		WERNER,NPB23,37-70	
	THRESHOLD	2.94	.47	.83					2 DATA POINTS LISTED	
..... REACTION 649										
NK-PI+PI- (NON RESON.)		6.840	2.547	3.000	.5000		.0500		HARBER,NPB17,289-70	
	THRESHOLD	2.94	.47	.83						
..... REACTION 650										
NK-2PI+2PI-		6.840	2.547	3.000	.0140		.0040		MERRILL,NPB18,403-70	
	THRESHOLD	3.98	1.02	1.43						
..... REACTION 651										
NK0PI+PI-PI-		6.840	2.547	3.000	.2000		.0170		GIACOMEL,PL33B,373-70	
	THRESHOLD	3.44	.74	1.13						
..... REACTION 652										
NK0PI-		2.739	.364	.702	.0300		.0300		ARMENTE. NPB18,425-70	
		2.858	.428	.778	.3900		.1100		ARMENTE. NPB18,425-70	
		2.953	.478	.837	.4800		.1600		ARMENTE. NPB18,425-70	
		3.061	.535	.903	1.5000		.2200		ARMENTE. NPB18,425-70	
		3.160	.588	.963	1.8000		.2200		ARMENTE. NPB18,425-70	
		3.280	.652	1.034	2.1800		.2600		ARMENTE. NPB18,425-70	
		3.389	.710	1.098	2.3600		.2700		ARMENTE. NPB18,425-70	
		3.518	.779	1.173	2.8300		.3700		ARMENTE. NPB18,425-70	
		6.840	2.547	3.000	1.6000		.1100		BARLOTAU,NPB26,557-71	
	THRESHOLD	2.48	.23	.52					9 DATA POINTS LISTED	
..... REACTION 653										
NK0PI- (NON RESONANT)		9.596	4.013	4.480	.2710		ERROR NOT GIVEN		CARMONY,PR2,30-70	
	THRESHOLD	2.48	.23	.52						
..... REACTION 654										
NK*-890		9.596	4.013	4.480	.2240		.0200		CARMONY NPB12,9-69	
		9.633	4.033	4.500	.1450		.0100		EISNER BAPS14,119-69	
	THRESHOLD	3.35	.69	1.07					2 DATA POINTS LISTED	
..... REACTION 655										
NK*-890=NK0PI-		6.840	2.547	3.000	.5900		.0600		BAKKER,NPB16,53-69	
		9.596	4.013	4.480	.2360		.0120		CARMONY,PR2,30-70	
	THRESHOLD	3.35	.69	1.07					2 DATA POINTS LISTED	
..... REACTION 656										
NK*0890PI-		6.840	2.547	3.000	.2400		.0400		HARBER,NPB17,289-70	*
	THRESHOLD	3.88	.97	1.38						
..... REACTION 657										
NK*0890PI-=NK-PI+PI-		6.840	2.547	3.000	.1700		.0200		HARBER,NPB17,289-70	
	THRESHOLD	3.88	.97	1.38						
..... REACTION 658										
N*-1236K-PI+		6.840	2.547	3.000	.1400		.0200		HARBER,NPB17,289-70	
	THRESHOLD	3.50	.77	1.16						
..... REACTION 659										
N*-1236K0		5.437	1.800	2.240	.4670		.1800		GALLOWAY NPB8,545-68	
		9.596	4.013	4.480	.1500		.0200		CARMONY NPB12,9-69	
		9.596	4.013	4.480	.1620		.0120		CARMONY,PR2,30-70	
		9.633	4.033	4.500	.0800		.0080		EISNER BAPS14,119-69	
	THRESHOLD	2.99	.50	.86					4 DATA POINTS LISTED	
..... REACTION 660										
N*-1236K0=NK0PI-		6.840	2.547	3.000	.4900		.0600		BAKKER,NPB16,53-69	
	THRESHOLD	2.99	.50	.86						
..... REACTION 661										
N*-1236K*0890		6.840	2.547	3.000	1.3900		.2000		HARBER,NPB17,289-70	*
		11.503	5.028	5.500	.2860		.0450		WERNER,NPB23,37-70	
	THRESHOLD	4.52	1.31	1.74					2 DATA POINTS LISTED	
..... REACTION 662										
N*-1236K*0890=NK-PI+PI-		6.840	2.547	3.000	.9300		.1300		HARBER,NPB17,289-70	*
	THRESHOLD	4.52	1.31	1.74						

FOOTNOTES

A=SUM OF ALL FINAL STATES WHICH INCLUDE THE GIVEN PARTICLES
*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS

K-N

	S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 663								
N*C1236K-	5.437	1.800	2.240	.3750	.1100		GALLOWAY NPB8,545-68	
THRESHOLD	2.99	.50	.86					
..... REACTION 664								
N*C1236K-=PK-PI-	5.437	1.800	2.240	.1250	.0350		GALLOWAY NPB8,545-68	
THRESHOLD	2.99	.50	.86					
..... REACTION 665								
N-1400=NKOPI-	9.596	4.013	4.480	.0460	.0110		CARMONY,PR2,30-70	
THRESHOLD	1.96	0.00	0.00					
..... REACTION 666								
N0152CK-=PK-PI-	5.437	1.800	2.240	.1400	.0400		GALLOWAY NPB8,545-68	
THRESHOLD	4.06	1.07	1.48					
..... REACTION 667								
LPI+PI-PI-	2.739	.364	.702	.0200	.0200		ARMENTE. NPB18,425-70	
	2.858	.428	.778	.1000	.0400		ARMENTE. NPB18,425-70	
	2.953	.478	.837	.1400	.0400		ARMENTE. NPB18,425-70	
	3.061	.535	.903	.2400	.0500		ARMENTE. NPB18,425-70	
	3.160	.588	.963	.2800	.0500		ARMENTE. NPB18,425-70	
	3.280	.652	1.034	.2600	.0500		ARMENTE. NPB18,425-70	
	3.389	.710	1.098	.3700	.0700		ARMENTE. NPB18,425-70	
	3.518	.779	1.173	.3300	.0700		ARMENTE. NPB18,425-70	
	6.840	2.547	3.000	.5300	.0500		MERRILL,NPB18,403-70	
THRESHOLD	2.36	.16	.43				9 DATA POINTS LISTED	
..... REACTION 668								
LPI+PI-PI- (NON RES.)	6.840	2.547	3.000	.1590	ERROR NOT GIVEN		KARSHON,NPB29,557-71	
THRESHOLD	2.36	.16	.43					
..... REACTION 669								
LPI+PI-PI-PIO	6.840	2.547	3.000	.7500	.0650		GIACOMEL,PL33B,373-70	
THRESHOLD	2.81	.40	.74					
..... REACTION 670								
LPI+PI-PI-PIO (NON RESON.)	6.840	2.547	3.000	.0680	ERROR NOT GIVEN		HOOGLAND,PL33B,631-70	
THRESHOLD	2.79	.39	.73					
..... REACTION 671								
LPI-	4.781	1.451	1.881	2.8800	.3000		COX NP B18,61-70	
	4.843	1.484	1.915	2.4600	.2400		COX NP B18,61-70	
	4.901	1.515	1.947	1.8800	.1900		COX NP B18,61-70	
	4.954	1.543	1.976	1.9400	.1800		COX NP B18,61-70	
	4.998	1.566	2.000	2.1900	.2200		COX NP B18,61-70	
	5.034	1.586	2.020	2.1500	.2100		COX NP B18,61-70	
	5.071	1.605	2.040	2.1300	.2000		COX NP B18,61-70	
	5.113	1.627	2.063	1.7800	.1700		COX NP B18,61-70	
	5.204	1.676	2.113	1.7400	.1500		COX NP B18,61-70	
	6.840	2.547	3.000	.3100	.0400		BARLOUTA. NPB9,493-69	
	6.840	2.547	3.000	.3000	.0320		BARLOTAU,NPB26,557-71	
	9.633	4.033	4.500	.0830	.0110		YEN PR188,2011-69	
	9.633	4.033	4.500	.1020	.0150		YEN PRL22,963-69	
THRESHOLD	1.58	0.00	0.00				13 DATA POINTS LISTED	
..... REACTION 672								
LPI-(BACKWARD)	6.840	2.547	3.000	.0100	.0020		BARLOTAU,NP+ 6Y557 7	
	9.633	4.033	4.500	9.0000 MICROB	3.0000		YEN PR188,2011-69	
THRESHOLD	1.58	0.00	0.00				2 DATA POINTS LISTED	
..... REACTION 673								
LPI-PIO	2.739	.364	.702	2.1800	.2900		ARMENTE. NPB18,425-70	
	2.858	.428	.778	2.7500	.2300		ARMENTE. NPB18,425-70	
	2.953	.478	.837	2.9900	.2200		ARMENTE. NPB18,425-70	
	3.061	.535	.903	3.9100	.2800		ARMENTE. NPB18,425-70	
	3.160	.588	.963	3.5500	.2200		ARMENTE. NPB18,425-70	
	3.280	.652	1.034	3.9500	.2900		ARMENTE. NPB18,425-70	
	3.389	.710	1.098	3.9600	.2800		ARMENTE. NPB18,425-70	
	3.518	.779	1.173	3.7100	.3400		ARMENTE. NPB18,425-70	
	6.840	2.547	3.000	.7600	.0960		BARLOTAU,NPB26,557-71	
	9.633	4.033	4.500	.2500	.0330		YEN PR188,2011-69	
THRESHOLD	1.95	0.00	0.00				10 DATA POINTS LISTED	
..... REACTION 674								
LPI-Z0	2.739	.364	.702	.3400	.0800		ARMENTE. NPB18,425-70	
	2.858	.428	.778	.3300	.0700		ARMENTE. NPB18,425-70	
	2.953	.478	.837	.8600	.1000		ARMENTE. NPB18,425-70	
	3.061	.535	.903	1.2400	.1300		ARMENTE. NPB18,425-70	
	3.160	.588	.963	1.1500	.1100		ARMENTE. NPB18,425-70	
	3.280	.652	1.034	1.1800	.1200		ARMENTE. NPB18,425-70	
	3.389	.710	1.098	1.1900	.1300		ARMENTE. NPB18,425-70	
	3.518	.779	1.173	.9000	.1300		ARMENTE. NPB18,425-70	
	9.633	4.033	4.500	.7400	.0600		YEN PR188,2011-69	
THRESHOLD	2.36	.16	.43				9 DATA POINTS LISTED	
..... REACTION 675								
LK+K-PI- (NON PHI)	8.514	3.437	3.900	.0131	.0021		CRENNELL PR1,847-70	
THRESHOLD	5.04	1.59	2.03					
..... REACTION 676								
LK-KS	8.514	3.437	3.900	.0119	.0021		CRENNELL BNL14050-69	1
	8.514	3.437	3.900	.0119	.0021		CRENNELL PR1,847-70	
THRESHOLD	4.44	1.27	1.69				2 DATA POINTS LISTED	

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-N

	S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FCCT-NOTES
..... REACTION 677								
LK-KSPIO	8.514	3.437	3.900	.0189	.0032		CRENNELL PR1,847-70	
	8.514	3.437	3.900	.0189	.0032		CRENNELL BNL14050-69	1
THRESHOLD	5.04	1.59	2.03				2 DATA POINTS LISTED	
..... REACTION 678								
LETPI-	6.840	2.547	3.000	.0380	.0150		KARSHON,NPB29,557-71	
	9.633	4.033	4.500	.0560	.0150		YEN PR188,2011-69	
THRESHOLD	3.26	.64	1.02				2 DATA POINTS LISTED	
..... REACTION 679								
LRH-	9.633	4.033	4.500	.0700	.0130		YEN PR188,2011-69	
THRESHOLD	3.52	.78	1.17					
..... REACTION 680								
LRH- (BACKWARD)	9.633	4.033	4.500	.0130	.0040		YEN PR188,2011-69	
THRESHOLD	3.52	.78	1.17					
..... REACTION 681								
LRHOPI-	6.840	2.547	3.000	.1060	.0130		KARSHON,NPB29,557-71	
THRESHOLD	4.06	1.07	1.48					
..... REACTION 682								
LOMPI-	6.840	2.547	3.000	.2200	.0460		KARSHON,NPB29,557-71	
THRESHOLD	4.15	1.12	1.53					
..... REACTION 683								
LXOPI-	6.840	2.547	3.000	.0700	.0270		KARSHON,NPB29,557-71	
THRESHOLD	4.97	1.55	1.99					
..... REACTION 684								
LB-	6.840	2.547	3.000	.1020	.0260		HOOGLAND,PL33B,631-70	
THRESHOLD	5.50	1.83	2.27					
..... REACTION 685								
LB-=LOMPI-	6.840	2.547	3.000	.0940	.0250		HOOGLAND,NPB21,381-70	
THRESHOLD	5.50	1.83	2.27					
..... REACTION 686								
LDEL-980=LPI-ET	9.633	4.033	4.500	.0150	.0030		YEN PR188,2011-69	
THRESHOLD	4.39	1.24	1.66					
..... REACTION 687								
(L/SO)PI+2PI-ZO	6.840	2.547	3.000	.1600	.0400		MERRILL,NPB18,403-70	
THRESHOLD	3.30	.66	1.05					
..... REACTION 688								
(L/SO)PI-ZO	6.840	2.547	3.000	1.2100	.1200		MERRILL,NPB18,403-70	
THRESHOLD	2.36	.16	.43					
..... REACTION 689								
(L/SO)2PI+3PI-	6.840	2.547	3.000	.0150	.0030		MERRILL,NPB18,403-70	
THRESHOLD	3.30	.66	1.05					
..... REACTION 690								
(L/SO)K+K-PI-	6.840	2.547	3.000	.0140	.0040		MERRILL,NPB18,403-70	
THRESHOLD	5.04	1.59	2.02					
..... REACTION 691								
(L/SO)K-KO	6.840	2.547	3.000	.0500	.0120		MERRILL,NPB18,403-70	
THRESHOLD	4.43	1.26	1.69					
..... REACTION 692								
(L/SO)K-KOPIO	6.840	2.547	3.000	.0120	.0070		MERRILL,NPB18,403-70	
THRESHOLD	5.04	1.59	2.02					
..... REACTION 693								
(L/SO)KSKSPI-	6.840	2.547	3.000	5.0000 MICROB	3.0000		MERRILL,NPB18,403-70	
THRESHOLD	5.07	1.60	2.04					
..... REACTION 694								
(L/SO)KSKLPI-	6.840	2.547	3.000	.0220	.0060		MERRILL,NPB18,403-70	
THRESHOLD	5.07	1.61	2.04					
..... REACTION 695								
S+PI+3PI-	6.840	2.547	3.000	.0530	.0060		MERRILL,NPB18,403-70	
THRESHOLD	3.06	.54	.90					
..... REACTION 696								
S+PI+3PI-PIO	6.840	2.547	3.000	.0240	.0040		MERRILL,NPB18,403-70	
THRESHOLD	3.57	.81	1.20					

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA

********** K-N **********

		S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 697											
S+PI-PI-		2.739	.364	.702		.5100		.0900		ARMENTE. NPB18,425-70	
		2.858	.428	.778		.5500		.0700		ARMENTE. NPB18,425-70	
		2.953	.478	.837		.8300		.0900		ARMENTE. NPB18,425-70	
		3.061	.535	.903		1.2500		.1100		ARMENTE. NPB18,425-70	
		3.160	.588	.963		1.5700		.1100		ARMENTE. NPB18,425-70	
		3.280	.652	1.034		1.3500		.1200		ARMENTE. NPB18,425-70	
		3.389	.710	1.098		1.2900		.1100		ARMENTE. NPB18,425-70	
		3.518	.779	1.173		.9300		.1100		ARMENTE. NPB18,425-70	
		6.840	2.547	3.000		.2700		.0260		BARLOTAU,NPB26,557-71	
	THRESHOLD	2.16	.06	.24						9 DATA POINTS LISTED	
..... REACTION 698											
S+PI-PI-PIO		2.953	.478	.837		.0500		.0300		ARMENTE. NPB18,425-70	
		3.061	.535	.903		.0600		.0300		ARMENTE. NPB18,425-70	
		3.160	.588	.963		.0300		.0200		ARMENTE. NPB18,425-70	
		3.280	.652	1.034		.0100		.0200		ARMENTE. NPB18,425-70	
		3.389	.710	1.098		.0600		.0300		ARMENTE. NPB18,425-70	
		3.518	.779	1.173		.0900		.0400		ARMENTE. NPB18,425-70	
		6.840	2.547	3.000		.3200		.0250		MERRILL,NPB18,403-70	
	THRESHOLD	2.59	.29	.60						7 DATA POINTS LISTED	
..... REACTION 699											
S+2PI-Z0		6.840	2.547	3.000		.0290		.0070		MERRILL,NPB18,403-70	
	THRESHOLD	3.06	.54	.90							
..... REACTION 700											
S+K-K0PI-		6.840	2.547	3.000	U	7.0000	MICROB			MERRILL,NPB18,403-70	
	THRESHOLD	5.37	1.77	2.21							
..... REACTION 701											
S-PI+PI-		2.739	.364	.702		.2900		.0600		ARMENTE. NPB18,425-70	
		2.858	.428	.778		.3000		.0500		ARMENTE. NPB18,425-70	
		2.953	.478	.837		.3900		.0600		ARMENTE. NPB18,425-70	
		3.061	.535	.903		.6800		.0800		ARMENTE. NPB18,425-70	
		3.160	.588	.963		.8600		.0800		ARMENTE. NPB18,425-70	
		3.280	.652	1.034		.7100		.0800		ARMENTE. NPB18,425-70	
		3.389	.710	1.098		.6200		.0700		ARMENTE. NPB18,425-70	
		3.518	.779	1.173		.5300		.0800		ARMENTE. NPB18,425-70	
		5.180	1.663	2.100		.4030		ERROR NOT GIVEN		CHADWICK SLAC348-67	P
		6.192	2.202	2.650		.2640		ERROR NOT GIVEN		CHADWICK SLAC348-67	
		6.840	2.547	3.000		.3400		.0250		BARLOTAU,NPB26,557-71	
	THRESHOLD	2.16	.06	.24						11 DATA POINTS LISTED	
..... REACTION 702											
S-PI+PI-PIO		3.061	.535	.903		.2100		.0500		ARMENTE. NPB18,425-70	
		3.160	.588	.963		.2400		.0400		ARMENTE. NPB18,425-70	
		3.280	.652	1.034		.2400		.0500		ARMENTE. NPB18,425-70	
		3.389	.710	1.098		.2300		.0500		ARMENTE. NPB18,425-70	
		3.518	.779	1.173		.1500		.0500		ARMENTE. NPB18,425-70	
		5.180	1.663	2.100		.3120		ERROR NOT GIVEN		CHADWICK SLAC348-67	
		6.192	2.202	2.650		.2700		ERROR NOT GIVEN		CHADWICK SLAC348-67	
		6.840	2.547	3.000		.6700		.0500		GIACOMEL,PL33B,373-70	
	THRESHOLD	2.59	.29	.60						8 DATA POINTS LISTED	
..... REACTION 703											
S-PI+PI-Z0		6.840	2.547	3.000		.1450		.0230		MERRILL,NPB18,403-70	
	THRESHOLD	3.06	.54	.90							
..... REACTION 704											
S-PIO		2.739	.364	.702		2.3700		.3000		ARMENTE. NPB18,425-70	
		2.858	.428	.778		1.7900		.1500		ARMENTE. NPB18,425-70	
		2.953	.478	.837		1.6500		.1300		ARMENTE. NPB18,425-70	
		3.061	.535	.903		1.3900		.1200		ARMENTE. NPB18,425-70	
		3.160	.588	.963		1.2200		.1000		ARMENTE. NPB18,425-70	
		3.280	.652	1.034		1.1100		.1000		ARMENTE. NPB18,425-70	
		3.389	.710	1.098		.9100		.1000		ARMENTE. NPB18,425-70	
		3.518	.779	1.173		.9400		.1100		ARMENTE. NPB18,425-70	
		6.840	2.547	3.000		.1300		.0200		BARLOTAU,NPB26,557-71	
		6.840	2.547	3.000		.1400		.0350		BARLOUTA. NPB9,493-69	
		10.456	4.471	4.940		.0470		.0140		DIBIANCA NPB16,69-70	
	THRESHOLD	1.77	0.00	0.00						11 DATA POINTS LISTED	
..... REACTION 705											
S-PIO (FORWARD)		10.456	4.471	4.940		.0410		.0130		DIBIANCA NPB16,69-70	
	THRESHOLD	1.77	0.00	0.00							
..... REACTION 706											
S-PIO (BACKWARD)		10.456	4.471	4.940		6.0000	MICROB	3.0000		DIBIANCA NPB16,69-70	
	THRESHOLD	1.77	0.00	0.00							
..... REACTION 707											
S-2PI+2PI-		6.840	2.547	3.000		.0420		.0060		MERRILL,NPB18,403-70	
	THRESHOLD	3.06	.54	.90							
..... REACTION 708											
S-2PI+2PI-PIO		6.840	2.547	3.000		.0370		.0050		MERRILL,NPB18,403-70	
	THRESHOLD	3.57	.81	1.20							

FOOTNOTES

U=UPPER LIMIT
P=PROTON IS A SPECTATOR

K-N

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 709									
S-Z0	2.739	.364	.702	.1100		.0300		ARMENTE. NPB18,425-70	
	2.858	.428	.778	.0900		.0300		ARMENTE. NPB18,425-70	
	2.953	.478	.837	.2200		.0400		ARMENTE. NPB18,425-70	
	3.061	.535	.903	.4500		.0600		ARMENTE. NPB18,425-70	
	3.160	.588	.963	.7400		.0700		ARMENTE. NPB18,425-70	
	3.280	.652	1.034	.7000		.0800		ARMENTE. NPB18,425-70	
	3.389	.710	1.098	.7500		.0800		ARMENTE. NPB18,425-70	
	3.518	.779	1.173	.4900		.0700		ARMENTE. NPB18,425-70	
	6.840	2.547	3.000	.2000		.0180		MERRILL,NPB18,403-70	
THRESHOLD	2.16	.06	.24					9 DATA POINTS LISTED	
..... REACTION 710									
S-K+K-	6.840	2.547	3.000	.0160		.0040		MERRILL,NPB18,403-70	
THRESHOLD	4.74	1.43	1.86						
..... REACTION 711									
S-K+K0PI-	6.840	2.547	3.000	1.0000	MICROB	1.0000		MERRILL,NPB18,403-70	
THRESHOLD	5.37	1.77	2.21						
..... REACTION 712									
S-K-K0PI+	6.840	2.547	3.000	5.0000	MICROB	3.0000		MERRILL,NPB18,403-70	
THRESHOLD	5.37	1.77	2.21						
..... REACTION 713									
S-KSKS	6.840	2.547	3.000	6.0000	MICROB	3.0000		MERRILL,NPB18,403-70	
THRESHOLD	4.77	1.45	1.87						
..... REACTION 714									
S-KSKSPI0	6.840	2.547	3.000	1.0000	MICROB	1.0000		MERRILL,NPB18,403-70	
THRESHOLD	5.40	1.78	2.22						
..... REACTION 715									
S-KSKL	6.840	2.547	3.000	.0370		.0070		MERRILL,NPB18,403-70	
THRESHOLD	4.77	1.45	1.88						
..... REACTION 716									
S-ET	10.456	4.471	4.940	9.0000	MICROB	5.0000		DIBIANCA, NPB16,69-70	
THRESHOLD	3.03	.52	.88						
..... REACTION 717									
S-ET=S-PI+PI-PI0	5.180	1.663	2.100	.0140		.0030		CHADWICK SLAC348-67	
	6.192	2.202	2.650	.0135		.0020		CHADWICK SLAC348-67	
THRESHOLD	3.03	.52	.88					2 DATA POINTS LISTED	
..... REACTION 718									
S-ET(FORWARD)	10.456	4.471	4.940	9.0000	MICROB	5.0000		DIBIANCA, NPB16,69-70	
THRESHOLD	3.03	.52	.88						
..... REACTION 719									
S-RHO	10.456	4.471	4.940	.0290		.0080		DIBIANCA NPB16,69-70	
THRESHOLD	3.80	.93	1.34						
..... REACTION 720									
S-RHO=S-PI+PI-	5.180	1.663	2.100	.1370		.0250		CHADWICK SLAC348-67	
	6.192	2.202	2.650	.0590		.0150		CHADWICK SLAC348-67	
THRESHOLD	3.80	.93	1.34					2 DATA POINTS LISTED	
..... REACTION 721									
S-RHO (FORWARD)	10.456	4.471	4.940	.0240		.0080		DIBIANCA NPB16,69-70	
THRESHOLD	3.80	.93	1.34						
..... REACTION 722									
S-RHO (BACKWARD)	10.456	4.471	4.940	5.0000	MICROB	3.0000		DIBIANCA NPB16,69-70	
THRESHOLD	3.80	.93	1.34						
..... REACTION 723									
S-RHOPI0=S-PI+PI-PI0	5.180	1.663	2.100	.0140		.0060		CHADWICK SLAC348-67	P
THRESHOLD	4.37	1.23	1.65						
..... REACTION 724									
S-OM	6.840	2.547	3.000	.0820		.0170		HOOGLAND,NPB21,381-70	
	10.456	4.471	4.940	.0320		.0070		DIBIANCA NPB16,69-70	
THRESHOLD	3.89	.98	1.39					2 DATA POINTS LISTED	
..... REACTION 725									
S-OM=S-PI+PI-PI0	5.180	1.663	2.100	.1180		.0400		CHADWICK SLAC348-67	P
	6.192	2.202	2.650	.0650		.0080		CHADWICK SLAC348-67	P
THRESHOLD	3.89	.98	1.39					2 DATA POINTS LISTED	
..... REACTION 726									
S-OM (FORWARD)	6.840	2.547	3.000	.0550		.0150		HOOGLAND,NPB21,381-70	
	10.456	4.471	4.940	.0290		.0070		DIBIANCA NPB16,69-70	
THRESHOLD	3.89	.98	1.39					2 DATA POINTS LISTED	
..... REACTION 727									
S-OM (BACKWARD)	6.840	2.547	3.000	.0270		.0070		HOOGLAND,NPB21,381-70	
	10.456	4.471	4.940	3.0000	MICROB	2.0000		DIBIANCA NPB16,69-70	
THRESHOLD	3.89	.98	1.39					2 DATA POINTS LISTED	

FOOTNOTES

P=PROTON IS A SPECTATOR

K-N

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 728									
S-X0	10.456	4.471	4.940	.0430		.0150		DIBIANCA, NPB16,69-70	
THRESHOLD	4.69	1.40	1.83						
..... REACTION 729									
S-X0(FORWARD)	10.456	4.471	4.940	.0430		.0150		DIBIANCA NPB16,69-70	
THRESHOLD	4.69	1.40	1.83						
..... REACTION 730									
S-H=S-PI+PI-PI0	5.180	1.663	2.100	.0370		.0110		CHADWICK SLAC348-67	P
THRESHOLD	4.75	1.44	1.87						
..... REACTION 731									
S-PHI	6.840	2.547	3.000	.0330		.0090		HOOGLAND,NPB21,381-70	
	10.456	4.471	4.940	.0250		.0060		DIBIANCA NPB16,69-70	
THRESHOLD	4.88	1.51	1.94					2 DATA POINTS LISTED	
..... REACTION 732									
S-PHI (FORWARD)	6.840	2.547	3.000	.0315		.0090		HOOGLAND,NPB21,381-70	
	10.456	4.471	4.940	.0250		.0060		DIBIANCA NPB16,69-70	
THRESHOLD	4.88	1.51	1.94					2 DATA POINTS LISTED	
..... REACTION 733									
S-PHI (BACKWARD)	6.840	2.547	3.000	1.5000	MICROB	1.5000		HOOGLAND,NPB21,381-70	
THRESHOLD	4.88	1.51	1.94						
..... REACTION 734									
S-F	10.456	4.471	4.940	.0230		.0100		DIBIANCA, NPB16,69-70	
THRESHOLD	5.95	2.07	2.52						
..... REACTION 735									
S-F (FORWARD)	10.456	4.471	4.940	.0130		.0070		DIBIANCA NPB16,69-70	
THRESHOLD	5.95	2.07	2.52						
..... REACTION 736									
S-F (BACKWARD)	10.456	4.471	4.940	.0100		.0070		DIBIANCA NPB16,69-70	
THRESHOLD	5.95	2.07	2.52						
..... REACTION 737									
S-F*	10.456	4.471	4.940	8.0000	MICROB	3.0000		DIBIANCA NPB16,69-70	
THRESHOLD	7.24	2.76	3.21						
..... REACTION 738									
S-F* (FORWARD)	10.456	4.471	4.940	7.0000	MICROB	3.0000		DIBIANCA NPB16,69-70	
THRESHOLD	7.24	2.76	3.21						
..... REACTION 739									
S-F* (BACKWARD)	10.456	4.471	4.940	1.0000	MICROB	1.0000		DIBIANCA NPB16,69-70	
THRESHOLD	7.24	2.76	3.21						
..... REACTION 740									
SOPI+2PI-	6.840	2.547	3.000	.1800		.0400		MERRILL,NPB18,403-70	
THRESHOLD	2.59	.29	.60						
..... REACTION 741									
SOPI-	2.739	.364	.702	2.3300		.3100		ARMENTE. NPB18,425-70	
	2.858	.428	.778	1.7400		.1700		ARMENTE. NPB18,425-70	
	2.953	.478	.837	1.5500		.1500		ARMENTE. NPB18,425-70	
	3.061	.535	.903	1.2000		.1300		ARMENTE. NPB18,425-70	
	3.160	.588	.963	1.1800		.1100		ARMENTE. NPB18,425-70	
	3.280	.652	1.034	1.0600		.1200		ARMENTE. NPB18,425-70	
	3.389	.710	1.098	.8900		.1100		ARMENTE. NPB18,425-70	
	3.518	.779	1.173	1.0000		.1300		ARMENTE. NPB18,425-70	
	6.840	2.547	3.000	.1600		.0220		BARLOTAU,NPB26,557-71	
	6.840	2.547	3.000	.1700		.0300		BARLOUTA. NPB9,493-69	
	9.633	4.033	4.500	.0320		.0100		YEN PR188,2011-69	
	9.633	4.033	4.500	.0390		.0100		YEN PRL22,963-69	
THRESHOLD	1.77	0.00	0.00					12 DATA POINTS LISTED	
..... REACTION 742									
SOPI- (BACKWARD)	6.840	2.547	3.000	.0240		.0050		BARLOTAU,NPB26,557-71	
	9.633	4.033	4.500	4.0000	MICROB	2.0000		YEN PR188,2011-69	
THRESHOLD	1.77	0.00	0.00					2 DATA POINTS LISTED	
..... REACTION 743									
Y*+1385PI-PI-	6.840	2.547	3.000	.0930		.0200		KARSHON,NPB29,557-71	
THRESHOLD	2.77	.38	.72						
..... REACTION 744									
Y*+1385PI-PI-PI0	6.840	2.547	3.000	.0780		.0200		HOOGLAND,PL33B,631-70	
THRESHOLD	3.26	.64	1.02						
..... REACTION 745									
Y*+PI-PI-PI0 (NON RESON.)	6.840	2.547	3.000	.2250		.0400		HOOGLAND,PL33B,631-70	
THRESHOLD	3.26	.64	1.02						
..... REACTION 746									
Y*-1385PI+PI-	6.840	2.547	3.000	.0990		.0130		KARSHON,NPB29,557-71	
THRESHOLD	2.77	.38	.72						

FOOTNOTES

P=PROTON IS A SPECTATOR

********** K-N **********

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 747									
Y*-1385PI+PI-=S-PI+PI-PI0	5.180	1.663	2.100	.0450		.0090		CHADWICK SLAC348-67	P
	6.192	2.202	2.650	.0350		.0050		CHADWICK SLAC348-67	P
THRESHOLD	2.77	.38	.72					2 DATA POINTS LISTED	
..... REACTION 748									
Y*-1385PI+PI-PI0	6.840	2.547	3.000	.2260		.0530		KARSHON,NPB29,557-71	
THRESHOLD	3.26	.64	1.02						
..... REACTION 749									
Y*-1385PI0	9.633	4.033	4.500	.0160		.0050		YEN PR188,2011-69	
THRESHOLD	2.33	.14	.40						
..... REACTION 750									
Y*-1385Z0 (Z0 NOT ET)	9.633	4.033	4.500	.0600		.0200		YEN PR188,2011-69	
THRESHOLD	2.77	.38	.72						
..... REACTION 751									
Y*-1385K+K-	6.840	2.547	3.000	.0140		.0050		KARSHON,NPB29,557-71	
THRESHOLD	5.63	1.90	2.35						
..... REACTION 752									
Y*-1385KSKL	6.840	2.547	3.000	8.0000	MICROB	5.0000		KARSHON,NPB29,557-71	
THRESHOLD	5.66	1.92	2.36						
..... REACTION 753									
Y*-1385ET	9.633	4.033	4.500	.0130		.0040		YEN PR188,2011-69	
THRESHOLD	3.74	.90	1.30						
..... REACTION 754									
Y*-1385RH0	6.840	2.547	3.000	.0930		.0130		KARSHON,NPB29,557-71	
THRESHOLD	4.60	1.36	1.78						
..... REACTION 755									
Y*-1385OM	6.840	2.547	3.000	.0990		.0240		KARSHON,NPB29,557-71	
THRESHOLD	4.70	1.41	1.84						
..... REACTION 756									
Y*-1385OM=LPI+PI-PI-PI0	6.840	2.547	3.000	.1050		.0250		HOOGLAND,PL33B,631-70	
THRESHOLD	4.70	1.41	1.84						
..... REACTION 757									
Y*-1385PHI=Y*-1385K+K-	6.840	2.547	3.000	.0210		.0060		KARSHON,NPB29,557-71	
THRESHOLD	5.78	1.98	2.43						
..... REACTION 758									
Y*-1385PHI=Y*-1385KSKL	6.840	2.547	3.000	.0150		.0050		KARSHON,NPB29,557-71	
THRESHOLD	5.78	1.98	2.43						
..... REACTION 759									
Y*01385PI+PI-PI-	6.840	2.547	3.000	.0980		.0250		HOOGLAND,PL33B,631	
THRESHOLD	3.26	.64	1.02						
..... REACTION 760									
Y*01385PI-	6.840	2.547	3.000	.1000		.0200		BARLOTAU,NPB26,557-71	
	9.633	4.033	4.500	.0220		.0080		YEN PR188,2011-69	
THRESHOLD	2.33	.14	.40					2 DATA POINTS LISTED	
..... REACTION 761									
Y*01385PI-=LPI-PI0	6.840	2.547	3.000	.0900		.0150		BARLOTAU,NPB26,557-71	
THRESHOLD	2.33	.14	.40						
..... REACTION 762									
Y*01385PI- (BACKWARD)	6.840	2.547	3.000	1.0000	MICROB	1.0000		BARLOTAU,NPB26Y557-7	
THRESHOLD	2.33	.14	.40						
..... REACTION 763									
Y*01385PI-PI0=S-PI+PI-PI0	5.180	1.663	2.100	9.0000	MICROB	ERROR NOT GIVEN		CHADWICK SLAC348-67	I
THRESHOLD	2.77	.38	.72						
..... REACTION 764									
Y*(+,0)1385PI-PI-PI(0,+)	6.840	2.547	3.000	.0990		.0260		KARSHON,NPB29,557-71	
THRESHOLD	3.26	.64	1.02						
..... REACTION 765									
Y1405PI-	6.840	2.547	3.000	.1000		.0250		BARLOTAU,NPB26,557-71	
	10.456	4.471	4.940	.0220		.0060		DIBIANCA NP B16,69-70	
THRESHOLD	2.39	.18	.45					2 DATA POINTS LISTED	
..... REACTION 766									
Y1405PI-=S(+,-)PI(-,+)PI-	6.840	2.547	3.000	.0650		.0150		BARLOTAU,NPB26,557-71	
THRESHOLD	2.39	.18	.45						
..... REACTION 767									
Y1405PI-=S-PI+PI-	5.180	1.663	2.100	.0280		.0050		CHADWICK SLAC348-67	
	6.192	2.202	2.650	.0290		.0050		CHADWICK SLAC348-67	
THRESHOLD	2.39	.18	.45					2 DATA POINTS LISTED	

FOOTNOTES

P=PROTON IS A SPECTATOR
I=O TRUE AND P TRUE
O=ORDER OF MAGNITUDE

K-N

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 768										
Y1405PI-PI0=S-PI+PI-PI0	5.180	1.663	2.100		.0170		.0060		CHADWICK SLAC348-67	P
	6.192	2.202	2.650		9.0000	MICROB	3.0000		CHADWICK SLAC348-67	P
THRESHOLD	2.84	.42	.77						2 DATA POINTS LISTED	
..... REACTION 769										
Y1405PI- (FORWARD)	10.456	4.471	4.940		.0160		.0050		DIBIANCA NP B16,69-70	
THRESHOLD	2.39	.18	.45							
..... REACTION 770										
Y1405PI- (BACKWARD)	6.840	2.547	3.000	U	6.0000	MICROB	4.0000		BARLOTAU,NPB26,557-71	
	10.456	4.471	4.940		6.0000	MICROB	4.0000		DIBIANCA NP B16,69-70	
THRESHOLD	2.39	.18	.45						2 DATA POINTS LISTED	
..... REACTION 771										
Y1520PI-	5.437	1.800	2.240		.4450		.1300		GALLOWAY NPB8,545-68	
	6.840	2.547	3.000		.2900		.0250		BARLOTAU,NPB26,557-71	
	10.456	4.471	4.940		.0550		.0140		DIBIANCA NP B16,69-70	
THRESHOLD	2.76	.37	.71						3 DATA POINTS LISTED	
..... REACTION 772										
Y1520PI-=PK-PI-	5.437	1.800	2.240		.0910		.0300		GALLOWAY NPB8,545-68	
	6.840	2.547	3.000		.0640		.0070		BARLOTAU,NPB26,557-71	
THRESHOLD	2.76	.37	.71						2 DATA POINTS LISTED	
..... REACTION 773										
Y1520PI-=NK0PI-	6.840	2.547	3.000		.0700		.0110		BARLOTAU,NPB26,557-71	
	9.596	4.013	4.480		.0110		.0040		CARMONY,PR2,30-70	
THRESHOLD	2.76	.37	.71						2 DATA POINTS LISTED	
..... REACTION 774										
Y1520PI-=S(+,-)PI(-,+)PI-	6.840	2.547	3.000		.0880		.0100		BARLOTAU,NPB26,557-71	
THRESHOLD	2.76	.37	.71							
..... REACTION 775										
Y1520PI-=S-PI+PI-	5.180	1.663	2.100		.0740		.0100		CHADWICK SLAC348-67	
	6.192	2.202	2.650		.0460		.0090		CHADWICK SLAC348-67	
THRESHOLD	2.76	.37	.71						2 DATA POINTS LISTED	
..... REACTION 776										
Y1520PI- (FORWARD)	10.456	4.471	4.940		.0420		.0120		DIBIANCA NP B16,69-70	
THRESHOLD	2.76	.37	.71							
..... REACTION 777										
Y1520PI- (BACKWARD)	6.840	2.547	3.000		.0750		.0150		BARLOTAU,NPB26,557-71	
	10.456	4.471	4.940		.0130		.0070		DIBIANCA NP B16,69-70	
THRESHOLD	2.76	.37	.71						2 DATA POINTS LISTED	
..... REACTION 778										
Y1520PI-PI0=S-PI+PI-PI0	5.180	1.663	2.100		.0150		.0060		CHADWICK SLAC348-67	
	6.192	2.202	2.650		.0135		.0030		CHADWICK SLAC348-67	
THRESHOLD	3.24	.63	1.01						2 DATA POINTS LISTED	
..... REACTION 779										
Y*-1610PI0	9.633	4.033	4.500		5.0000	MICROB	3.0000		YEN PR188,2011-69	
THRESHOLD	3.06	.54	.90							
..... REACTION 780										
Y*-1610Z0 (Z0 NOT ET)	9.633	4.033	4.500		.0120		.0050		YEN PR188,2011-69	
THRESHOLD	3.57	.81	1.20							
..... REACTION 781										
Y*-1610ET	9.633	4.033	4.500		5.0000	MICROB	3.0000		YEN PR188,2011-69	
THRESHOLD	4.67	1.39	1.82							
..... REACTION 782										
Y*-1660PI+PI-=NK-PI+PI-	6.840	2.547	3.000		.0300		.0100		BARLOTAU.NPB26,557-71	
THRESHOLD	3.76	.91	1.31							
..... REACTION 783										
Y*-1660PI+PI-=S+-PI-+3PI	6.840	2.547	3.000		.0110		.0050		BARLOTAU.NPB26,557-71	
THRESHOLD	3.76	.91	1.31							
..... REACTION 784										
Y*-1660PI+PI-=(SPI)-PI+PI-	6.840	2.547	3.000		.0750		.0250		BARLOTAU.NPB26,557-71	
THRESHOLD	3.76	.91	1.31							
..... REACTION 785										
Y*01660PI-PI0=S-PI+PI-PI0	6.192	2.202	2.650		.0160		.0030		CHADWICK SLAC348-67	
THRESHOLD	3.76	.91	1.31							
..... REACTION 786										
Y1670PI-=S-PI+PI-	5.180	1.663	2.100		.0680		.0150		CHADWICK SLAC348-67	
	6.192	2.202	2.650		.0260		.0050		CHADWICK SLAC348-67	
THRESHOLD	3.28	.65	1.03						2 DATA POINTS LISTED	

FOOTNOTES

P=PROTON IS A SPECTATOR
U=UPPER LIMIT

K-N

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 787										
Y1700PI-	6.840	2.547	3.000		.1000		.0600		BARLOTAU,NPB26,557-71	
THRESHOLD	3.39	.71	1.10							
..... REACTION 788										
Y1700PI-=PK-PI-	6.840	2.547	3.000		.0130		.0060		BARLOTAU,NPB26,557-71	
THRESHOLD	3.39	.71	1.10							
..... REACTION 789										
Y1700PI-=NK0PI-	6.840	2.547	3.000		.0100		.0070		BARLOTAU,NPB26,557-71	
THRESHOLD	3.39	.71	1.10							
..... REACTION 790										
Y1700PI-=S(+,-)PI(-,+)PI-	6.840	2.547	3.000		.0330		.0100		BARLOTAU,NPB26,557-71	
THRESHOLD	3.39	.71	1.10							
..... REACTION 791										
Y1700PI- (BACKWARD)	6.840	2.547	3.000		.0300		.0200		BARLOTAU,NPB26,557-71	
THRESHOLD	3.39	.71	1.10							
..... REACTION 792										
Y1820PI-	6.840	2.547	3.000		.3700		.0500		BARLOTAU,NPB26,557-71	
THRESHOLD	3.84	.95	1.36							
..... REACTION 793										
Y1820PI-=PK-PI-	6.840	2.547	3.000		.1170		.0200		BARLOTAU,NPB26,557-71	
THRESHOLD	3.84	.95	1.36							
..... REACTION 794										
Y1820PI-=NK0PI-	6.840	2.547	3.000		.0990		.0130		BARLOTAU,NPB26,557-71	
	9.596	4.013	4.480		.0300		.0080		CARMONY,PR2,30-70	
THRESHOLD	3.84	.95	1.36						2 DATA POINTS LISTED	
..... REACTION 795										
Y1820PI-=S(+,-)PI(-,+)PI-	6.840	2.547	3.000		.0160		.0070		BARLOTAU,NPB26,557-71	
THRESHOLD	3.84	.95	1.36							
..... REACTION 796										
Y1820PI-=S-PI+PI-	5.180	1.663	2.100		.0180		.0080		CHADWICK SLAC348-67	
	6.192	2.202	2.650		.0310		.0080		CHADWICK SLAC348-67	
THRESHOLD	3.84	.95	1.36						2 DATA POINTS LISTED	
..... REACTION 797										
Y1820PI- (BACKWARD)	6.840	2.547	3.000		.1360		.0300		BARLOTAU,NPB26,557-71	
THRESHOLD	3.39	.71	1.10							
..... REACTION 798										
Y*01910PI-	6.840	2.547	3.000		.6000		.3500		BARLOTAU,NPB26,557-71	
THRESHOLD	4.20	1.14	1.56							
..... REACTION 799										
Y*01910PI-=PK-PI-	6.840	2.547	3.000		.0300		.0150		BARLOTAU,NPB26,557-71	
THRESHOLD	4.20	1.14	1.56							
..... REACTION 800										
Y*01910PI-=S(+,-)PI(-,+)PI	6.840	2.547	3.000	U	.0100				BARLOTAU,NPB26,557-71	
THRESHOLD	4.20	1.14	1.56							
..... REACTION 801										
Y*01910PI- (BACKWARD)	6.840	2.547	3.000		.2000		.1200		BARLOTAU,NPB26,557-71	
THRESHOLD	4.20	1.14	1.56							
..... REACTION 802										
Y2100PI-	6.840	2.547	3.000		.2100		.0700		BARLOTAU,NPB26,557-71	
THRESHOLD	5.02	1.58	2.01							
..... REACTION 803										
Y2100PI-=PK-PI-	6.840	2.547	3.000		.0320		.0070		BARLOTAU,NPB26,557-71	
THRESHOLD	5.02	1.58	2.01							
..... REACTION 804										
Y2100PI-=NK0PI-	6.840	2.547	3.000		.0380		.0200		BARLOTAU,NPB26,557-71	
THRESHOLD	5.02	1.58	2.01							
..... REACTION 805										
Y2100PI-=S(+,-)PI(-,+)PI-	6.840	2.547	3.000		.0120		.0080		BARLOTAU,NPB26,557-71	
THRESHOLD	5.02	1.58	2.01							
..... REACTION 806										
Y2100PI- (BACKWARD)	6.840	2.547	3.000		.1750		.0650		BARLOTAU,NPB26,557-71	
THRESHOLD	5.02	1.58	2.01							
..... REACTION 807										
Y2670PI-=NK0PI-	9.596	4.013	4.480		3.0000	MICROB	7.0000		CARMONY,PR2,30-70	
THRESHOLD	7.90	3.11	3.57							

FOOTNOTES

U=UPPER LIMIT

K-N

		S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 808										
XI-K+PI+PI-PI-		8.514	3.437	3.900	1.4000	MICROB	.4000		CRENNELL PR1,847-70	
		8.514	3.437	3.900	1.4000	MICROB	.4000		CRENNELL BNL14050-69	1
	THRESHOLD	4.99	1.56	2.00					2 DATA POINTS LISTED	
..... REACTION 809										
XI-K+PI-		6.840	2.547	3.000	.0510		.0100		MERRILL,NPB18,403-70	
		6.840	2.547	3.000	.0510		.0100		GIACOMEL,PL33B,373-70	
		8.514	3.437	3.900	7.6000	MICROB	1.3000		CRENNELL PR1,847-70	
		8.514	3.437	3.900	7.6000	MICROB	1.3000		CRENNELL BNL14050-69	1
	THRESHOLD	3.82	.94	1.34					4 DATA POINTS LISTED	
..... REACTION 810										
XI-K+PI-PI0		6.840	2.547	3.000	.0160		.0040		MERRILL,NPB18,403-70	
		8.514	3.437	3.900	6.7000	MICROB	1.1000		CRENNELL BNL14050-69	1
		8.514	3.437	3.900	6.7000	MICROB	1.1000		CRENNELL PR1,847-70	
	THRESHOLD	4.38	1.24	1.66					3 DATA POINTS LISTED	
..... REACTION 811										
XI-K0		6.840	2.547	3.000	.0490		.0090		MERRILL,NPB18,403-70	
	THRESHOLD	3.29	.66	1.04						
..... REACTION 812										
XI-K0PI+PI-		6.840	2.547	3.000	.0160		.0050		MERRILL,NPB18,403-70	
		8.514	3.437	3.900	8.8000	MICROB	1.4000		CRENNELL PR1,847-70	
		8.514	3.437	3.900	8.8000	MICROB	1.4000		CRENNELL BNL14050-69	1
	THRESHOLD	4.38	1.24	1.66					3 DATA POINTS LISTED	
..... REACTION 814										
XI-K0Z0		6.840	2.547	3.000	.0100		.0050		MERRILL,NPB18,403-70	
	THRESHOLD	4.38	1.24	1.66						
..... REACTION 815										
K-PI+PI-Z0		6.840	2.547	3.000	.6700		.0700		MERRILL,NPB18,403-70	
	THRESHOLD	1.11	0.00	0.00						
..... REACTION 816										
K0PI+2PI-		6.840	2.547	3.000	.0260		.0050		MERRILL,NPB18,403-70	
	THRESHOLD	.84	0.00	0.00						
..... REACTION 817										
K0PI-Z0		6.840	2.547	3.000	1.9300		.1300		MERRILL,NPB18,403-70	
	THRESHOLD	.84	0.00	0.00						

FOOTNOTES

1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-DE

	S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 818								
TOTAL	6.069	.121	.366	95.0100	.7300		BOWEN,PR2,2599-70	
	6.159	.145	.405	92.4700	.7000		BOWEN,PR2,2599-70	
	6.245	.168	.440	78.6400	.6800		BOWEN,PR2,2599-70	
	6.334	.191	.475	64.0800	.6500		BOWEN,PR2,2599-70	
	6.416	.213	.506	57.4600	.6300		BOWEN,PR2,2599-70	
	6.498	.235	.536	55.8700	.6200		BOWEN,PR2,2599-70	
	6.582	.257	.566	56.4000	.6200		BOWEN,PR2,2599-70	
	6.647	.275	.589	56.9100	1.1000		BUGG PR168,1466-68	
	6.667	.280	.596	55.1200	.6400		BOWEN,PR2,2599-70	
	6.688	.286	.603	60.3200	1.6600		BUGG PR168,1466-68	
	6.743	.300	.622	59.9200	.5700		BUGG PR168,1466-68	
	6.758	.304	.627	59.1000	3.4000		CHAMBE. PR125,1696-62	
	6.758	.304	.627	51.5800	.6800		BOWEN,PR2,2599-70	
	6.838	.326	.654	59.4000	.3900		BUGG PR168,1466-68	
	6.847	.328	.657	50.5200	.7400		BOWEN,PR2,2599-70	
	6.935	.351	.686	54.4000	.7900		BOWEN,PR2,2599-70	
	6.935	.351	.686	59.2700	.3400		BUGG PR168,1466-68	
	7.011	.372	.711	61.6000	.3500		BUGG PR168,1466-68	
	7.086	.392	.735	63.5700	.3700		BUGG PR168,1466-68	
	7.132	.404	.750	64.5000	2.5000		CHAMBE. PR125,1696-62	
	7.183	.418	.766	64.8300	.3100		BUGG PR168,1466-68	
	7.268	.440	.793	67.9900	.2700		BUGG PR168,1466-68	
	7.316	.453	.808	63.1000	2.3000		CHAMBE. PR125,1696-62	
	7.348	.462	.818	70.3700	.2800		BUGG PR168,1466-68	
	7.413	.479	.838	71.4100	.5200		BUGG PR168,1466-68	
	7.481	.497	.859	74.3500	.3100		BUGG PR168,1466-68	
	7.549	.515	.880	76.3000	.2400		BUGG PR168,1466-68	
	7.608	.531	.898	78.5400	.2200		BUGG PR168,1466-68	
	7.731	.564	.935	80.8400	.2400		BUGG PR168,1466-68	
	7.827	.589	.964	82.7300	.2400		BUGG PR168,1466-68	
	7.834	.591	.966	79.9600	.9000		CCCL PR1,1887-70	
	7.854	.596	.972	80.4400	.7000		CCCL PR1,1887-70	
	7.881	.604	.980	74.3000	.8000		CCCK PR123,320-61	
	7.894	.607	.984	80.9000	2.1000		CHAMBE. PR125,1696-62	
	7.914	.613	.990	82.2500	.2500		BUGG PR168,1466-68	
	8.012	.639	1.019	80.7100	.4000		CCCL PR1,1887-70	
	8.012	.639	1.019	81.8200	.3800		BUGG PR168,1466-68	
	8.090	.659	1.042	80.3000	.3700		BUGG PR168,1466-68	
	8.175	.682	1.067	81.0000	1.3000		CHAMBE. PR125,1696-62	
	8.181	.684	1.069	77.5400	.3100		BUGG PR168,1466-68	
	8.209	.691	1.077	78.7100	.3000		CCCL PR1,1887-70	
	8.260	.705	1.092	75.6300	.2500		BUGG PR168,1466-68	
	8.332	.724	1.113	73.1000	.2600		CCCL PR1,1887-70	
	8.349	.728	1.118	72.4700	.2400		BUGG PR168,1466-68	
	8.380	.737	1.127	72.6600	.2000		CCCL PR1,1887-70	
	8.435	.751	1.143	69.4600	.2900		BUGG PR168,1466-68	
	8.514	.772	1.166	68.0600	.2500		CCCL PR1,1887-70	
	8.521	.774	1.168	67.3400	.2500		BUGG PR168,1466-68	
	8.549	.782	1.176	67.5800	.1600		CCCL PR1,1887-70	
	8.608	.797	1.193	65.2500	.2400		BUGG PR168,1466-68	
	8.691	.820	1.217	64.2300	.1800		CCCL PR1,1887-70	
	8.694	.820	1.218	63.8700	.2300		BUGG PR168,1466-68	
	8.726	.829	1.227	63.4000	.1700		CCCL PR1,1887-70	
	8.736	.832	1.230	60.7000	.5000		CCCK PR123,320-61	
	8.782	.844	1.243	62.0400	.2000		BUGG PR168,1466-68	
	8.865	.866	1.267	60.8400	.1600		CCCL PR1,1887-70	
	8.886	.872	1.273	60.4200	.2100		BUGG PR168,1466-68	
	8.911	.878	1.280	60.7500	.1000		CCCL PR1,1887-70	
	8.998	.901	1.305	59.1500	.2200		BUGG PR168,1466-68	
	9.041	.913	1.317	58.5700	.1200		CCCL PR1,1887-70	
	9.065	.919	1.324	58.3700	.1900		BUGG PR168,1466-68	
	9.097	.928	1.333	58.2400	.0800		CCCL PR1,1887-70	
	9.217	.960	1.367	57.7100	.1000		CCCL PR1,1887-70	
	9.241	.966	1.374	58.0300	.1400		BUGG PR168,1466-68	
	9.266	.973	1.381	57.8200	.0800		CCCL PR1,1887-70	
	9.351	.995	1.405	58.5700	.1400		BUGG PR168,1466-68	
	9.443	1.020	1.431	57.9700	.0700		CCCL PR1,1887-70	
	9.479	1.029	1.441	58.9900	.1600		BUGG PR168,1466-68	
	9.617	1.066	1.480	56.6000	.5000		CCCK PR123,320-61	
	9.631	1.070	1.484	59.3600	.1500		BUGG PR168,1466-68	
	9.635	1.071	1.485	58.4300	.0700		CCCL PR1,1887-70	
	9.710	1.091	1.506	58.5900	.0600		CCCL PR1,1887-70	
	9.760	1.104	1.520	59.4000	.1500		BUGG PR168,1466-68	
	9.853	1.129	1.546	58.7500	.0700		CCCL PR1,1887-70	
	9.906	1.143	1.561	59.4900	.1500		BUGG PR168,1466-68	
	9.974	1.162	1.580	58.6300	.0700		CCCL PR1,1887-70	
	10.092	1.193	1.613	59.4100	.1500		BUGG PR168,1466-68	
	10.168	1.213	1.634	58.1900	.0700		CCCL PR1,1887-70	
	10.268	1.240	1.662	58.2200	.1500		BUGG PR168,1466-68	
	10.348	1.261	1.684	57.4300	.0700		CCCL PR1,1887-70	
	10.438	1.285	1.709	57.8800	.1500		BUGG PR168,1466-68	
	10.513	1.305	1.730	54.9000	.5000		CCCK PR123,320-61	
	10.521	1.307	1.732	56.8700	.0700		CCCL PR1,1887-70	
	10.629	1.336	1.762	57.0200	.1500		BUGG PR168,1466-68	
	10.701	1.355	1.782	56.0100	.0700		CCCL PR1,1887-70	
	10.781	1.377	1.804	55.3900	.1500		BUGG PR168,1466-68	
	10.900	1.408	1.837	55.3700	.0500		CCCL PR1,1887-70	
	10.962	1.425	1.854	55.5100	.1400		BUGG PR168,1466-68	
	11.042	1.446	1.876	54.8400	.0600		CCCL PR1,1887-70	
	11.064	1.452	1.882	54.9400	.0600		CCCL PR1,1887-70	
	11.136	1.471	1.902	55.5100	.1400		BUGG PR168,1466-68	
	11.223	1.494	1.926	54.6600	.0600		CCCL PR1,1887-70	
	11.311	1.518	1.950	51.3000	.7000		CCCK PR123,320-61	
	11.318	1.520	1.952	55.0100	.1300		BUGG PR168,1466-68	
	11.427	1.549	1.982	54.2900	.0900		CCCL PR1,1887-70	
	11.507	1.570	2.004	55.1600	.1500		BUGG PR168,1466-68	
	11.609	1.597	2.032	53.9800	.0600		CCCL PR1,1887-70	
	11.678	1.616	2.051	54.5900	.1500		BUGG PR168,1466-68	
	11.773	1.641	2.077	53.8500	.0600		CCCL PR1,1887-70	
	11.868	1.666	2.103	54.3400	.1400		BUGG PR168,1466-68	
	11.934	1.684	2.121	53.7200	.0600		CCCL PR1,1887-70	
	12.069	1.720	2.158	54.1600	.1400		BUGG PR168,1466-68	
	12.080	1.723	2.161	53.5300	.0600		CCCL PR1,1887-70	
	12.234	1.764	2.203	52.9500	.0600		CCCL PR1,1887-70	
	12.245	1.767	2.206	53.5300	.1400		BUGG PR168,1466-68	

K-DE

		S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 818									
TOTAL		12.359	1.797	2.237	52.7500	.0600		COOL PR1,1887-70	
(CONTINUATION)		12.428	1.816	2.256	53.4700	.1400		BUGG PR168,1466-68	
		12.582	1.857	2.298	52.6100	.0600		COOL PR1,1887-70	
		12.615	1.865	2.307	53.0400	.1200		BUGG PR168,1466-68	
		12.766	1.906	2.348	52.2600	.1000		COOL PR1,1887-70	
		12.773	1.908	2.350	52.4300	.1000		ABRAMS PR1,1917-70	
		12.791	1.912	2.355	52.5800	.1300		BUGG PR168,1466-68	
		12.916	1.946	2.389	51.9700	.0600		COOL PR1,1887-70	
		12.957	1.956	2.400	52.1900	.0700		ABRAMS PR1,1917-70	
		12.968	1.959	2.403	52.3600	.1300		BUGG PR168,1466-68	
		13.030	1.976	2.420	51.9100	.0700		COOL PR1,1887-70	
		13.141	2.005	2.450	51.9900	.0700		ABRAMS PR1,1917-70	
		13.199	2.021	2.466	52.5400	.1000		BUGG PR168,1466-68	
		13.251	2.035	2.480	47.8000	.6000		COOK PR123,320-61	
		13.324	2.054	2.500	51.7500	.0600		ABRAMS PR1,1917-70	
		13.372	2.067	2.513	52.0100	.1000		BUGG PR168,1466-68	
		13.509	2.104	2.550	51.6200	.0600		ABRAMS PR1,1917-70	
		13.534	2.110	2.557	51.7900	.1000		BUGG PR168,1466-68	
		13.693	2.153	2.600	51.3700	.0600		ABRAMS PR1,1917-70	
		13.719	2.160	2.607	51.4000	.1000		BUGG PR168,1466-68	
		13.877	2.202	2.650	51.1200	.0600		ABRAMS PR1,1917-70	
		13.899	2.208	2.656	51.1500	.1000		BUGG PR168,1466-68	
		14.062	2.251	2.700	50.8400	.0600		ABRAMS PR1,1917-70	
		14.246	2.300	2.750	50.5900	.0600		ABRAMS PR1,1917-70	
		14.431	2.349	2.800	50.3300	.0700		ABRAMS PR1,1917-70	
		14.616	2.399	2.850	50.2800	.0600		ABRAMS PR1,1917-70	
		14.801	2.448	2.900	50.0500	.0600		ABRAMS PR1,1917-70	
		14.986	2.497	2.950	49.9000	.0600		ABRAMS PR1,1917-70	
		15.060	2.517	2.970	46.2000	.4000		COOK PR123,320-61	
		15.171	2.547	3.000	49.8100	.0600		ABRAMS PR1,1917-70	
		15.356	2.596	3.050	49.5400	.0600		ABRAMS PR1,1917-70	
		15.541	2.645	3.100	49.2700	.0700		ABRAMS PR1,1917-70	
		15.726	2.695	3.150	49.2300	.0600		ABRAMS PR1,1917-70	
		15.912	2.744	3.200	48.7400	.1000		ABRAMS PR1,1917-70	
		16.097	2.793	3.250	48.5900	.0700		ABRAMS PR1,1917-70	
		16.283	2.843	3.300	48.6800	.0600		ABRAMS PR1,1917-70	
		18.811	3.517	3.980	44.7000	.5000		COOK PR123,320-61	
		26.351	5.526	6.000	44.1000	.3000		GALBR.PR138B,913-65	
		33.836	7.521	8.000	41.7000	.3000		GALBR.PR138B,913-65	
		41.329	9.518	10.000	41.5000	.3000		GALBR.PR138B,913-65	
		48.825	11.516	12.000	40.3000	.3000		GALBR.PR138B,913-65	
		56.324	13.515	14.000	40.1000	.3000		GALBR.PR138B,913-65	
		63.824	15.514	16.000	40.1000	.4000		GALBR.PR138B,913-65	
		71.325	17.513	18.000	39.9000	.7000		GALBR.PR138B,913-65	
		78.826	19.512	20.000	39.3000	.6000		ALLABY PL30B,500-69	
		97.582	24.511	25.000	39.4000	.5000		ALLABY PL30B,500-69	
		116.338	29.510	30.000	40.4000	.4000		ALLABY PL30B,500-69	
		135.096	34.510	35.000	39.8000	.4000		ALLABY PL30B,500-69	
		153.855	39.509	40.000	39.3000	.4000		ALLABY PL30B,500-69	
		172.613	44.509	45.000	39.9000	.4000		ALLABY PL30B,500-69	
		191.372	49.509	50.000	39.9000	.5000		ALLABY PL30B,500-69	
		210.132	54.508	55.000	40.9000	.8000		ALLABY PL30B,500-69	
	THRESHOLD	5.62	0.00	0.00				157 DATA POINTS LISTED	
					FIT OF SIGMA AGAINST PLAB GEV/C				
					15 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .11				
					K = 45.53 +- .92 N = -.04 +- .01				
..... REACTION 819									
K-DE		6.984	.364	.702	7.3500	.3000		ARMENTE. NPB18,425-70	
		7.221	.428	.778	7.6600	.4300		ARMENTE. NPB18,425-70	
		7.409	.478	.837	9.0400	.4200		ARMENTE. NPB18,425-70	
		7.625	.535	.903	8.7600	.3600		ARMENTE. NPB18,425-70	
		7.824	.588	.963	8.8000	.3800		ARMENTE. NPB18,425-70	
		8.063	.652	1.034	8.5900	.4000		ARMENTE. NPB18,425-70	
		8.280	.710	1.098	7.1800	.3600		ARMENTE. NPB18,425-70	
		8.538	.779	1.173	6.1300	.3800		ARMENTE. NPB18,425-70	
		15.171	2.547	3.000	4.1000	.5000		MERRILL,NPB18,403-70	
	THRESHOLD	5.62	0.00	0.00				9 DATA POINTS LISTED	
..... REACTION 820									
DEK-PI+PI-		12.370	1.800	2.240	.0400	.0200		RHODE PR178,2089-69	
		15.171	2.547	3.000	.1020	.0140		MERRILL NPB18,403-70	
		24.482	5.028	5.500	.2280	.0350		WERNER ANL6915-69	
		24.557	5.048	5.520	.2280	.0350		WERMER PR188,2023-69	3
		24.557	5.048	5.520	.1940	.0300		WERMER PR188,2023-69	2
		31.215	6.823	7.300	.1500	ERROR NOT GIVEN		FRANKL. BAPS14,120-69	0
		51.075	12.116	12.600	.2680	.0650		DENEGRI,NPB28,13-71	
	THRESHOLD	7.02	.37	.71				7 DATA POINTS LISTED	
..... REACTION 821									
DEKOPI-		15.171	2.547	3.000	.1120	.0200		MERRILL,NPB18,403-70	
		20.674	4.013	4.480	.0480	.0050		CARMONY,PR2,30-70	
		20.749	4.033	4.500	.0330	.0050		EISNER PL28B,356-68	
	THRESHOLD	6.30	.18	.46				3 DATA POINTS LISTED	
..... REACTION 822									
DEKOPI-PIO		15.171	2.547	3.000	.1150	.0120		MERRILL NPB18,403-70	
		20.674	4.013	4.480	.1410	.0090		CARMONY,PR2,30-70	
		51.075	12.116	12.600	.2800	.0700		DENEGRI,NPB28,13-71	
	THRESHOLD	7.02	.37	.71				3 DATA POINTS LISTED	
..... REACTION 823									
DERHOK-		51.075	12.116	12.600	.0530	.0300		DENEGRI,NPB28,13-71	
	THRESHOLD	9.80	1.11	1.53					
..... REACTION 824									
DEK*-890		20.674	4.013	4.480	.0290	.0070		CARMONY,PR2,30-70	
	THRESHOLD	7.65	.54	.91					

FOOTNOTES

3=CROSS SECTION CORRECTED FOR SCREENING IN THE DEUTERON
2=CROSS SECTION NOT CORRECTED FOR SCREENING IN THE DEUTERON
0=ORDER OF MAGNITUDE

K-DE

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 825										
DEK*0890PI-=DEK-PI+PI-	51.075	12.116	12.600		.1820		.C5CC		DENEGRI,NPB28,13-71	
THRESHOLD	8.44	.75	1.15							
..... REACTION 826										
DEK*-1320	24.557	5.048	5.520		.1300		.0200		WERMER PR188,2023-69	
THRESHOLD	10.21	1.23	1.65							
..... REACTION 827										
DEK*-1320=DEK-PI+PI-	51.075	12.116	12.600		.1700		.C45C		DENEGRI,NPB28,13-71	
THRESHOLD	10.21	1.23	1.65							
..... REACTION 828										
DEK*-1320=DEK0PI-	51.075	12.116	12.600	U	9.0000	MICROB			DENEGRI,NPB28,13-71	
THRESHOLD	10.21	1.23	1.65							
..... REACTION 829										
DEK*-1320=DEK*0PI-	24.557	5.048	5.520		.1300		.0200		WERMER PR188,2023-69	3
THRESHOLD	10.21	1.23	1.65							
..... REACTION 830										
DEK*-1320=DEK*0PI-=K-PI+	51.075	12.116	12.600		.1340		.C35C		DENEGRI,NPB28,13-71	
THRESHOLD	10.21	1.23	1.65							
..... REACTION 831										
DEK*-1400	20.674	4.013	4.480		3.0000	MICROB	1.0000		CARMONY,PR2,30-70	
THRESHOLD	10.73	1.36	1.79							
..... REACTION 832										
DEK*01400PI-=DEK-PI+PI-	51.075	12.116	12.600		.0190		.CC7C		DENEGRI,NPB28,13-71	
THRESHOLD	11.67	1.61	2.05							
..... REACTION 833										
DEK*-1790=DEK-PI+PI-	51.075	12.116	12.600		.0250		.01CC		DENEGRI,NPB28,13-71	
THRESHOLD	13.44	2.09	2.53							
..... REACTION 834										
DEK*-1790=DEK0PI-	51.075	12.116	12.600	U	4.0000	MICROB			DENEGRI,NPB28,13-71	
THRESHOLD	13.44	2.09	2.53							
..... REACTION 835										
DE*0K-PI+	24.482	5.028	5.500		.0280		.C1CC		WERMER AN6915-69	
	24.557	5.048	5.520		.0280		.0100		WERMER PR188,2023-69	
THRESHOLD	8.03	.64	1.02						2 DATA POINTS LISTED	
..... REACTION 836										
DE*+K*-890	20.674	4.013	4.480		.0130		.C05C		CARMONY,PR2,30-70	
THRESHOLD	9.55	1.05	1.46							
..... REACTION 837										
DE*0K*0890	20.674	4.013	4.480		7.0000	MICROB	3.CCCC		CARMONY,PR2,30-70	
THRESHOLD	9.55	1.05	1.46							
..... REACTION 838										
DE*K*0890	24.482	5.028	5.500		.0200		.0080		WERNER,NPB23,37-70	
THRESHOLD	9.55	1.05	1.46							
..... REACTION 839										
PPK-PI-	6.984	.364	.702		.0640		.C2CC		ARMENTE. NPB18,425-70	P
	7.221	.428	.778		.3000		.06CC		ARMENTE. NPB18,425-70	P
	7.409	.478	.837		.6100		.08CC		ARMENTE. NPB18,425-70	P
	7.625	.535	.903		.6600		.07CC		ARMENTE. NPB18,425-70	P
	7.824	.588	.963		.9600		.C9CC		ARMENTE. NPB18,425-70	P
	8.063	.652	1.034		.7400		.C7CC		ARMENTE. NPB18,425-70	P
	8.280	.710	1.098		.7300		.C7CC		ARMENTE. NPB18,425-70	P
	8.538	.779	1.173		.5500		.06CC		ARMENTE. NPB18,425-70	P
THRESHOLD	6.30	.18	.46						8 DATA POINTS LISTED	
..... REACTION 840										
PNK-PI+PI-	12.370	1.800	2.240		.6800		.2000		RHODE PR178,2089-69	
	12.370	1.800	2.240		.8700		.2000		RHODE PR178,2089-69	N
	12.370	1.800	2.240		1.9400		.50CC		RHODE PR178,2089-69	P
	15.171	2.547	3.000		1.7350		.C8CC		GOLDBERG PL30B,434-69	P
	24.482	5.028	5.500		1.3400		.3000		MUSGRA. BAPS14,119-69	P
THRESHOLD	7.03	.38	.72						5 DATA POINTS LISTED	
..... REACTION 841										
PNK0PI+2PI-	15.171	2.547	3.000		.1460		.02CC		MERRILL,NPB18,403-70	
THRESHOLD	7.80	.58	.95							

FOOTNOTES

U=UPPER LIMIT
3=CROSS SECTION CORRECTED FOR SCREENING IN THE DEUTERON
P=PROTON IS A SPECTATOR
N=NEUTRON IS A SPECTATOR

K-DE

		S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 842									
PNKOPI-		6.984	.364	.702	.0650	.0400		ARMENTE. NPB18,425-70	P
		7.221	.428	.778	.3100	.1000		ARMENTE. NPB18,425-70	P
		7.409	.478	.837	.5700	.1200		ARMENTE. NPB18,425-70	P
		7.625	.535	.903	1.0300	.1400		ARMENTE. NPB18,425-70	P
		7.824	.588	.963	1.5900	.1900		ARMENTE. NPB18,425-70	P
		8.063	.652	1.034	1.4500	.1700		ARMENTE. NPB18,425-70	P
		8.280	.710	1.098	1.8600	.1900		ARMENTE. NPB18,425-70	P
		8.538	.779	1.173	2.1200	.2300		ARMENTE. NPB18,425-70	P
		15.171	2.547	3.000	1.2700	.1000		MERRILL,NPB18,403-70	N
		15.171	2.547	3.000	1.6000	.1300		BAKKER NPB16,53-70	
		20.674	4.013	4.480	.7580	.0210		CARMONY,PR2,30-70	
	THRESHOLD	6.31	.18	.47				11 DATA POINTS LISTED	
..... REACTION 843									
PKOPI-ZO		20.674	4.013	4.480	2.3400	.0360		CARMONY,PR2,30-70	
	THRESHOLD	3.43	0.00	0.00					
..... REACTION 844									
PK*-890ZO		20.674	4.013	4.480	.3200	.0800		CARMONY,PR2,30-70	P
	THRESHOLD	4.44	0.00	0.00					
..... REACTION 845									
N*01236PK*-890		20.674	4.013	4.480	.1100	.0300		CARMONY,PR2,30-70	P
	THRESHOLD	9.39	1.01	1.42					
..... REACTION 846									
LPPI+PI-PI-		7.221	.428	.778	.0900	.0300		ARMENTE. NPB18,425-70	P
		7.409	.478	.837	.1600	.0400		ARMENTE. NPB18,425-70	P
		7.625	.535	.903	.2500	.0500		ARMENTE. NPB18,425-70	P
		7.824	.588	.963	.2400	.0400		ARMENTE. NPB18,425-70	P
		8.063	.652	1.034	.2500	.0500		ARMENTE. NPB18,425-70	P
		8.280	.710	1.098	.3100	.0500		ARMENTE. NPB18,425-70	P
		8.538	.779	1.173	.2400	.0400		ARMENTE. NPB18,425-70	P
	THRESHOLD	6.12	.13	.39				7 DATA POINTS LISTED	
..... REACTION 847									
LPPI-		5.643	.010	.085	61.0000	26.0000		DAHL NC27,342-63	1
		5.684	.018	.135	49.0000	15.0000		DAHL NC27,342-63	1
		5.815	.053	.235	22.0000	11.0000		DAHL NC27,342-63	1
		6.679	.283	.600	4.0000	.6000		TAHER-ZA PRL11,470-63	P
		6.984	.364	.702	4.4600	.2900		ARMENTE. NPB18,425-70	P
		7.180	.417	.765	5.4000	.6000		TAHER-ZA PRL11,470-63	P
		7.221	.428	.778	5.4200	.3500		ARMENTE. NPB18,425-70	P
		7.409	.478	.837	5.6900	.3500		ARMENTE. NPB18,425-70	P
		7.452	.489	.850	4.5000	.6000		TAHER-ZA PRL11,470-63	P
		7.625	.535	.903	4.4700	.2300		ARMENTE. NPB18,425-70	P
		7.824	.588	.963	4.9700	.2400		ARMENTE. NPB18,425-70	P
		8.063	.652	1.034	3.7700	.2100		ARMENTE. NPB18,425-70	P
		8.280	.710	1.098	2.9300	.1800		ARMENTE. NPB18,425-70	P
		8.538	.779	1.173	2.3700	.1800		ARMENTE. NPB18,425-70	P
	THRESHOLD	4.81	0.00	0.00				14 DATA POINTS LISTED	
..... REACTION 848									
LPPI-PIO		6.984	.364	.702	1.8700	.1500		ARMENTE. NPB18,425-70	P
		7.221	.428	.778	2.4400	.2000		ARMENTE. NPB18,425-70	P
		7.409	.478	.837	3.2600	.2200		ARMENTE. NPB18,425-70	P
		7.625	.535	.903	2.7300	.1500		ARMENTE. NPB18,425-70	P
		7.824	.588	.963	3.0300	.3000		ARMENTE. NPB18,425-70	P
		8.063	.652	1.034	2.9100	.1500		ARMENTE. NPB18,425-70	P
		8.280	.710	1.098	2.8700	.1500		ARMENTE. NPB18,425-70	P
		8.538	.779	1.173	2.2500	.1500		ARMENTE. NPB18,425-70	P
	THRESHOLD	5.44	0.00	0.00				8 DATA POINTS LISTED	
..... REACTION 849									
LNPI+PI-		15.171	2.547	3.000	.4900	.0560		MERRILL,NPB18,403-70	N
	THRESHOLD	5.45	0.00	0.00					
..... REACTION 850									
LN2PI+2PI-		15.171	2.547	3.000	.1160	.0250		MERRILL,NPB18,403-70	N
	THRESHOLD	6.84	.33	.65					
..... REACTION 851									
(L/SO)PPI-ZO		6.984	.364	.702	2.0800	.1500		ARMENTE. NPB18,425-70	P
		7.221	.428	.778	3.0200	.2200		ARMENTE. NPB18,425-70	P
		7.409	.478	.837	4.0400	.2200		ARMENTE. NPB18,425-70	P
		7.625	.535	.903	3.8700	.1800		ARMENTE. NPB18,425-70	P
		7.824	.588	.963	3.9500	.1600		ARMENTE. NPB18,425-70	P
		8.063	.652	1.034	3.9000	.1600		ARMENTE. NPB18,425-70	P
		8.280	.710	1.098	3.9000	.1600		ARMENTE. NPB18,425-70	P
		8.538	.779	1.173	3.2400	.1600		ARMENTE. NPB18,425-70	P
	THRESHOLD	6.13	.14	.39				8 DATA POINTS LISTED	
..... REACTION 852									
S+PPI-PI-		6.984	.364	.702	.4400	.0800		ARMENTE. NPB18,425-70	P
		7.221	.428	.778	.4800	.0900		ARMENTE. NPB18,425-70	P
		7.409	.478	.837	.9700	.1200		ARMENTE. NPB18,425-70	P
		7.625	.535	.903	1.0300	.1100		ARMENTE. NPB18,425-70	P
		7.824	.588	.963	1.3300	.1200		ARMENTE. NPB18,425-70	P
		8.063	.652	1.034	1.0300	.1000		ARMENTE. NPB18,425-70	P
		8.280	.710	1.098	.9500	.0900		ARMENTE. NPB18,425-70	P
		8.538	.779	1.173	.7300	.0700		ARMENTE. NPB18,425-70	P
		9.653	1.076	1.490	.9700	.1100		ALSTON PR134B,1289-64	
	THRESHOLD	5.80	.05	.22				9 DATA POINTS LISTED	

FOOTNOTES

P=PROTON IS A SPECTATOR
N=NEUTRON IS A SPECTATOR
1=AVERAGE VALUE OVER A BAND OF MOMENTA

K-DE

		S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 853									
S+NPI+2PI-		15.171	2.547	3.000	.2810	.0320		MERRILL,NPB18,403-70	N
	THRESHOLD	6.50	.24	.54					
..... REACTION 854									
S-PPI+PI-		6.984	.364	.702	.2400	.0400		ARMENTE. NPB18,425-70	P
		7.221	.428	.778	.2300	.0500		ARMENTE. NPB18,425-70	P
		7.409	.478	.837	.5100	.0700		ARMENTE. NPB18,425-70	P
		7.625	.535	.903	.5000	.0600		ARMENTE. NPB18,425-70	P
		7.824	.588	.963	.6400	.0800		ARMENTE. NPB18,425-70	P
		8.063	.652	1.034	.5700	.0700		ARMENTE. NPB18,425-70	P
		8.280	.710	1.098	.5200	.0600		ARMENTE. NPB18,425-70	P
		8.538	.779	1.173	.4900	.0600		ARMENTE. NPB18,425-70	P
		9.653	1.076	1.490	1.0200	.1200		ALSTON PR134B,1289-64	
		12.370	1.800	2.240	.1900	.0500		ALYEA PL15,82-65	
	THRESHOLD	5.80	.05	.22				10 DATA POINTS LISTED	
..... REACTION 855									
S-PPI+PI-PI0		7.625	.535	.903	.1100	.0300		ARMENTE. NPB18,425-70	P
		7.824	.588	.963	.2100	.0400		ARMENTE. NPB18,425-70	P
		8.063	.652	1.034	.1600	.0300		ARMENTE. NPB18,425-70	P
		8.280	.710	1.098	.1400	.0300		ARMENTE. NPB18,425-70	P
		8.538	.779	1.173	.1200	.0300		ARMENTE. NPB18,425-70	P
	THRESHOLD	6.49	.23	.53				5 DATA POINTS LISTED	
..... REACTION 856									
S-PP10		6.984	.364	.702	1.7700	.1300		ARMENTE. NPB18,425-70	P
		7.221	.428	.778	1.6800	.1600		ARMENTE. NPB18,425-70	P
		7.409	.478	.837	1.6600	.1600		ARMENTE. NPB18,425-70	P
		7.625	.535	.903	1.2400	.1000		ARMENTE. NPB18,425-70	P
		7.824	.588	.963	1.1700	.1000		ARMENTE. NPB18,425-70	P
		8.063	.652	1.034	.8000	.0800		ARMENTE. NPB18,425-70	P
		8.280	.710	1.098	.8000	.0800		ARMENTE. NPB18,425-70	P
		8.538	.779	1.173	.6100	.0700		ARMENTE. NPB18,425-70	P
	THRESHOLD	5.14	0.00	0.00				8 DATA POINTS LISTED	
..... REACTION 857									
S-PZ0		6.984	.364	.702	.0700	.0300		ARMENTE. NPB18,425-70	P
		7.221	.428	.778	.0900	.0400		ARMENTE. NPB18,425-70	P
		7.409	.478	.837	.2400	.0500		ARMENTE. NPB18,425-70	P
		7.625	.535	.903	.3400	.0500		ARMENTE. NPB18,425-70	P
		7.824	.588	.963	.6400	.0800		ARMENTE. NPB18,425-70	P
		8.063	.652	1.034	.5300	.0700		ARMENTE. NPB18,425-70	P
		8.280	.710	1.098	.4900	.0600		ARMENTE. NPB18,425-70	P
		8.538	.779	1.173	.3400	.0600		ARMENTE. NPB18,425-70	P
	THRESHOLD	5.80	.05	.22				8 DATA POINTS LISTED	
..... REACTION 858									
S-N2PI+PI-		15.171	2.547	3.000	.1800	.0200		MERRILL,NPB18,403-70	N
	THRESHOLD	6.50	.24	.54					
..... REACTION 859									
SOPPI-		5.643	.010	.085	11.0000	11.0000		DAHL NC27,342-63	1
		5.684	.018	.135	11.0000	1.0000		DAHL NC27,342-63	1
		5.742	.034	.185	15.0000	1.0000		DAHL NC27,342-63	1
		5.815	.053	.235	6.5000	5.0000		DAHL NC27,342-63	1
		6.984	.364	.702	2.1600	.2000		ARMENTE. NPB18,425-70	P
		7.221	.428	.778	1.3100	.1800		ARMENTE. NPB18,425-70	P
		7.409	.478	.837	1.8000	.2000		ARMENTE. NPB18,425-70	P
		7.625	.535	.903	1.2000	.1200		ARMENTE. NPB18,425-70	P
		7.824	.588	.963	1.2100	.1200		ARMENTE. NPB18,425-70	P
		8.063	.652	1.034	.8400	.1100		ARMENTE. NPB18,425-70	P
		8.280	.710	1.098	.9500	.1100		ARMENTE. NPB18,425-70	P
		8.538	.779	1.173	.6300	.0900		ARMENTE. NPB18,425-70	P
	THRESHOLD	5.14	0.00	0.00				12 DATA POINTS LISTED	

FOOTNOTES

N=NEUTRON IS A SPECTATOR
P=PROTON IS A SPECTATOR
1=AVERAGE VALUE OVER A BAND OF MOMENTA

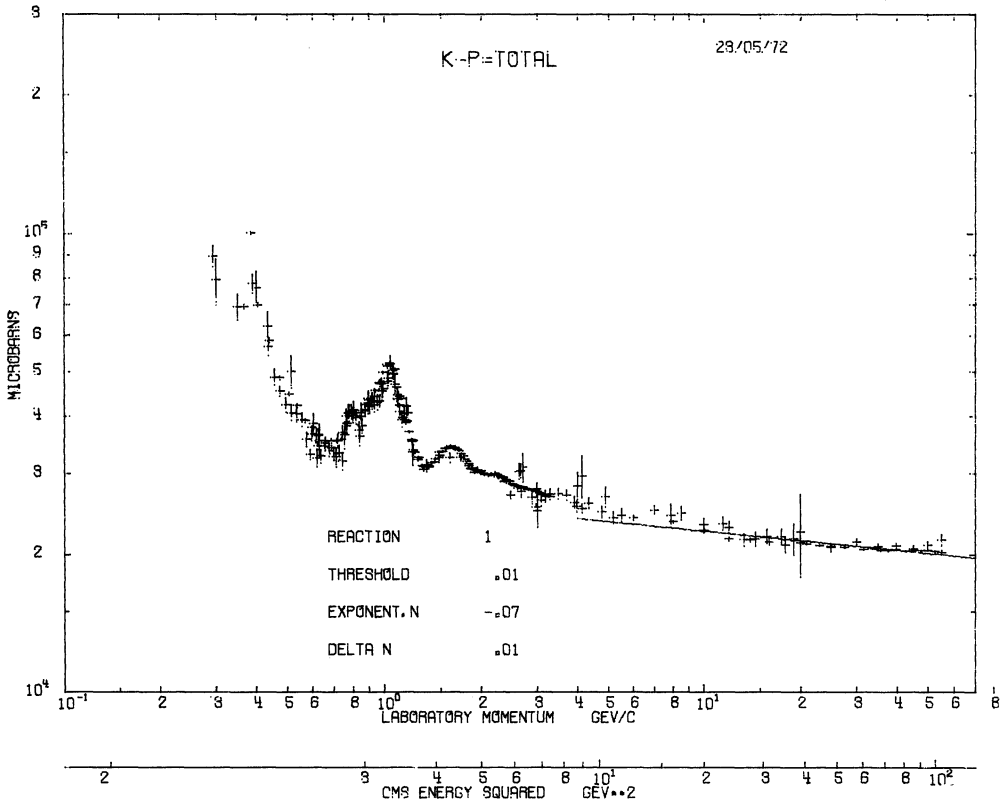
PLOTS OF CROSS SECTION
VERSUS INCIDENT LABORATORY MOMENTUM

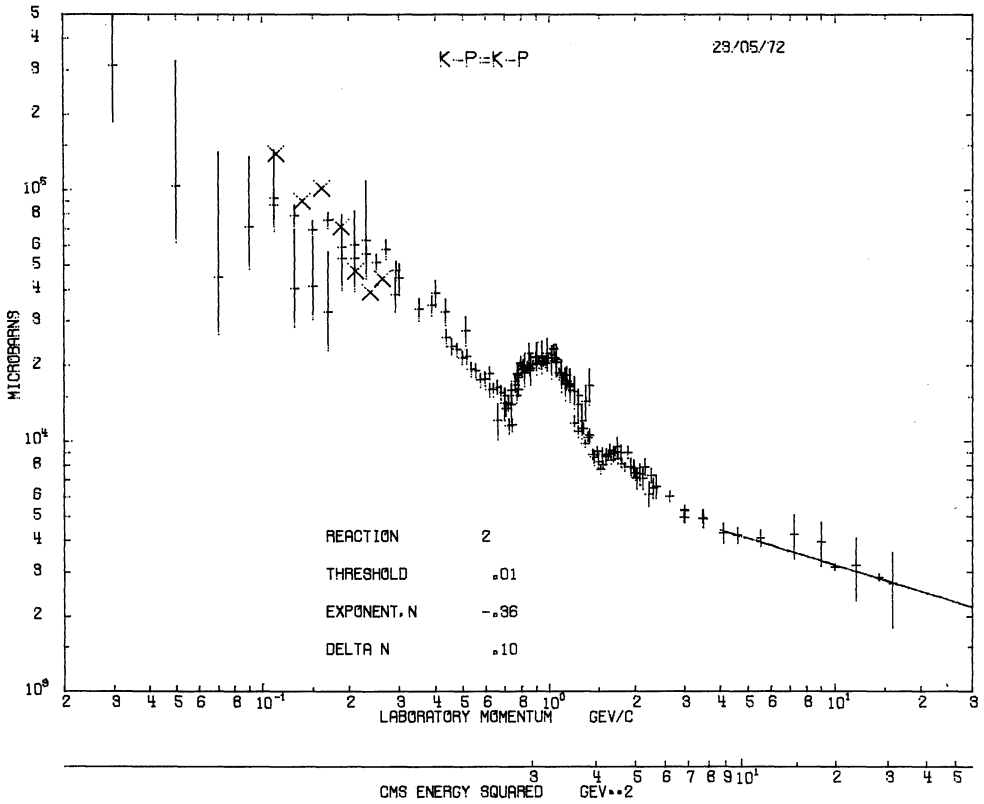
Description

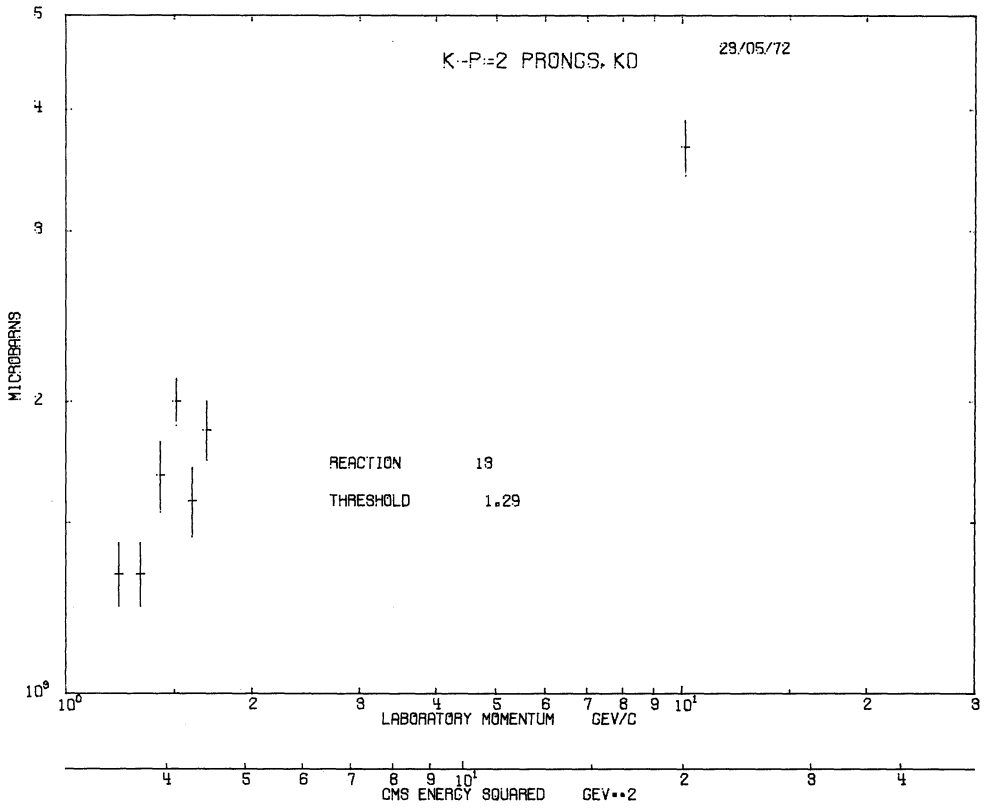
For those reactions having a sufficient number of data points, a graph is given of the cross section, σ, versus the momentum, p_{Lab} on log-log scales.

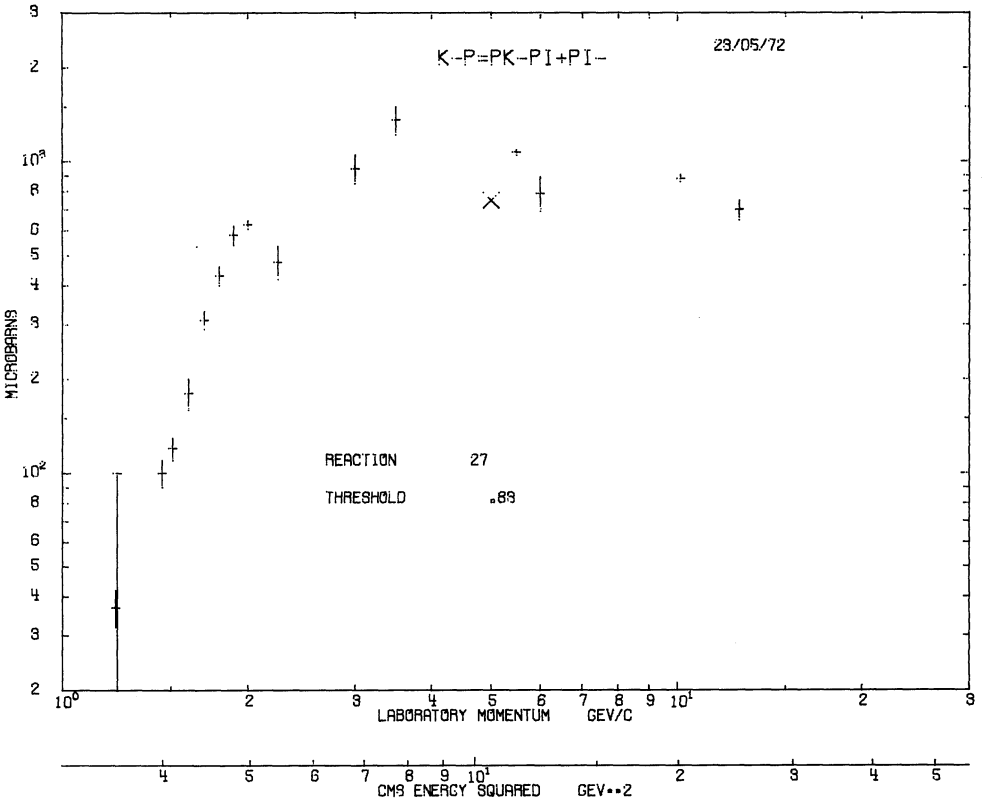
Errors are shown whenever they have been given. If no errors have been published, the data point is given as a cross, X. If only an upper limit is quoted, this is shown as a short horizontal bar together with a line extending to the bottom of the graph.

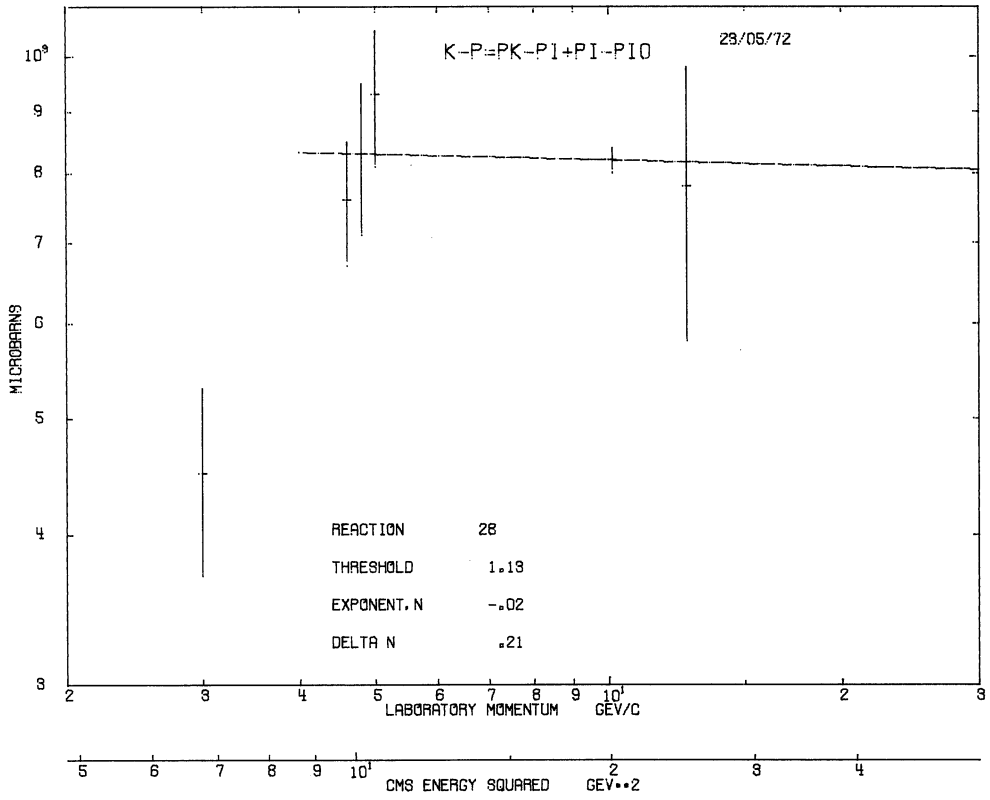
Lines drawn on the graph are fits to the high energy data of the formula (1), i.e. σ = constant. $(p_{Lab})^{+n}$, and the value of the exponent, n and its error are printed on the graph.

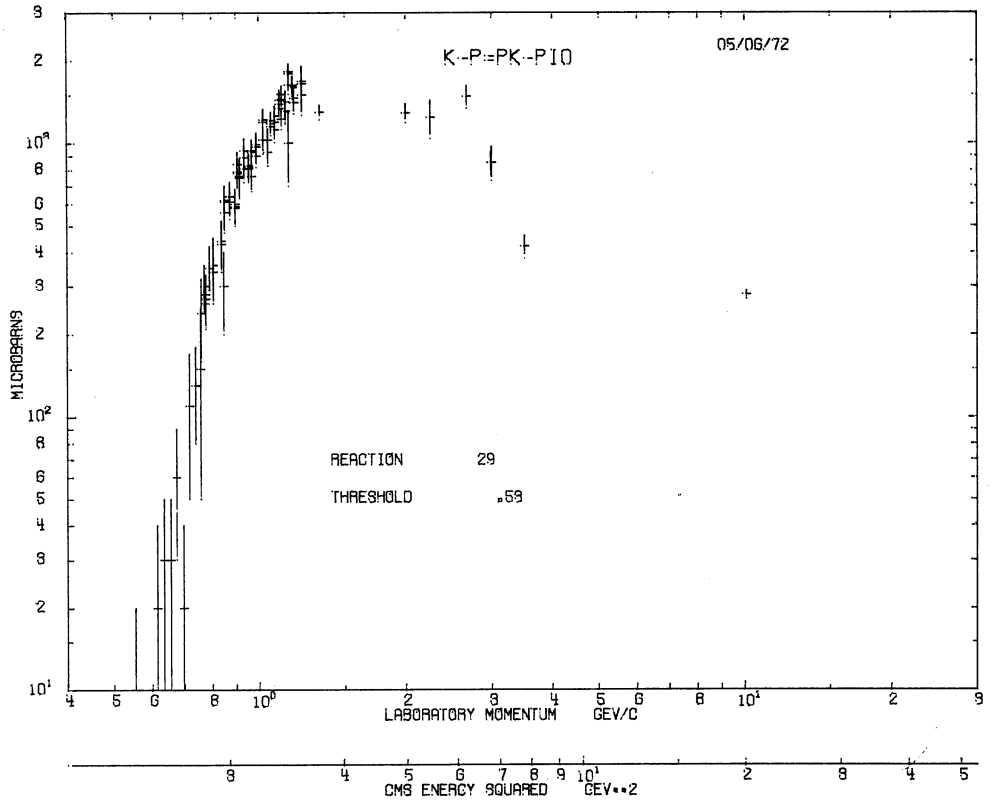

K-P:=TOTAL
29/05/72
MICROBARNS
REACTION 1
THRESHOLD .01
EXPONENT. N -.07
DELTA N .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

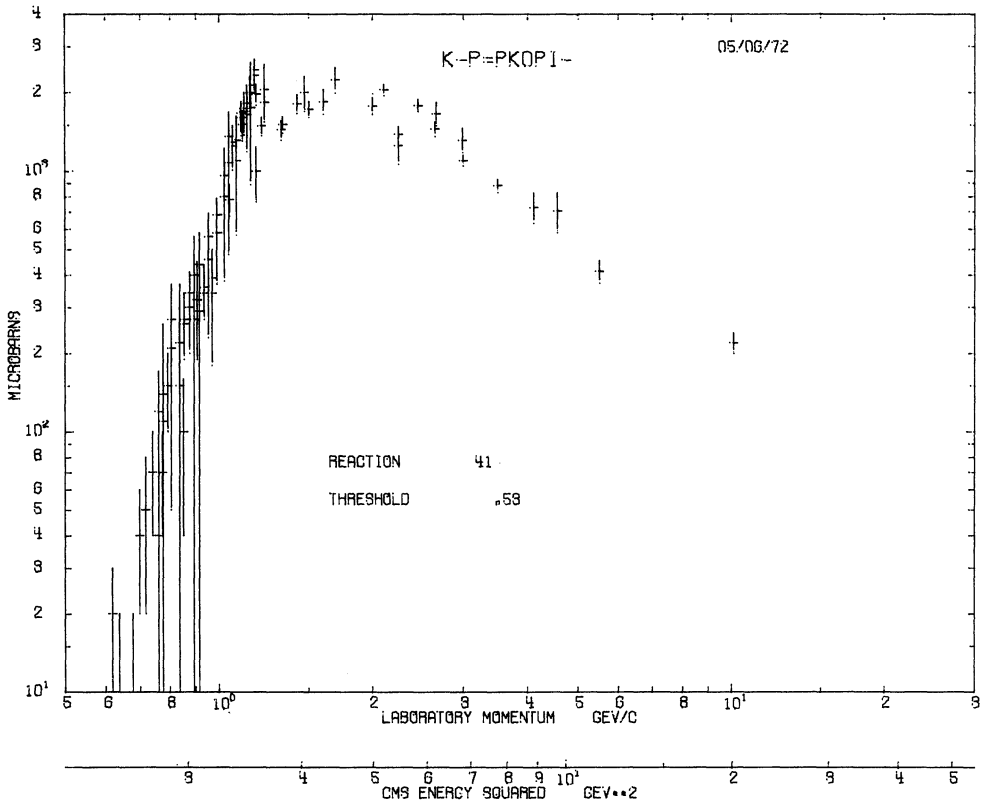

K-P:=K-P
29/05/72
MICROBARNS
REACTION 2
THRESHOLD .01
EXPONENT. N -.36
DELTA N .10
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

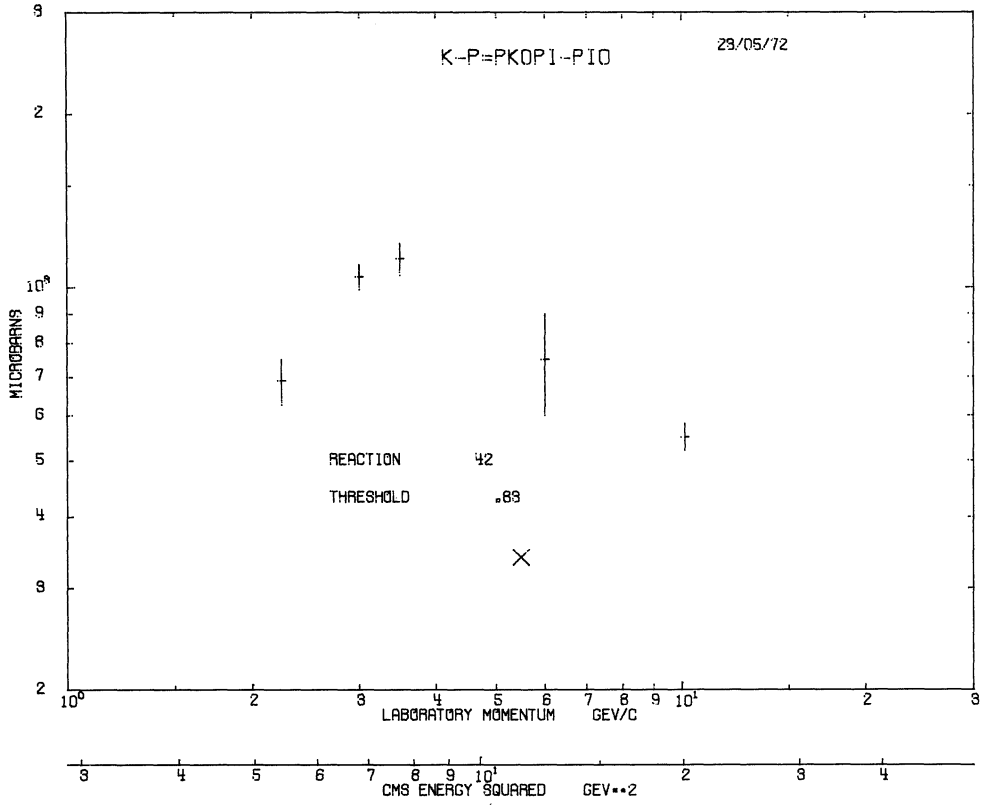

K-P=2 PRONGS, KO
29/05/72
MICROBARNS
REACTION 18
THRESHOLD 1.29
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

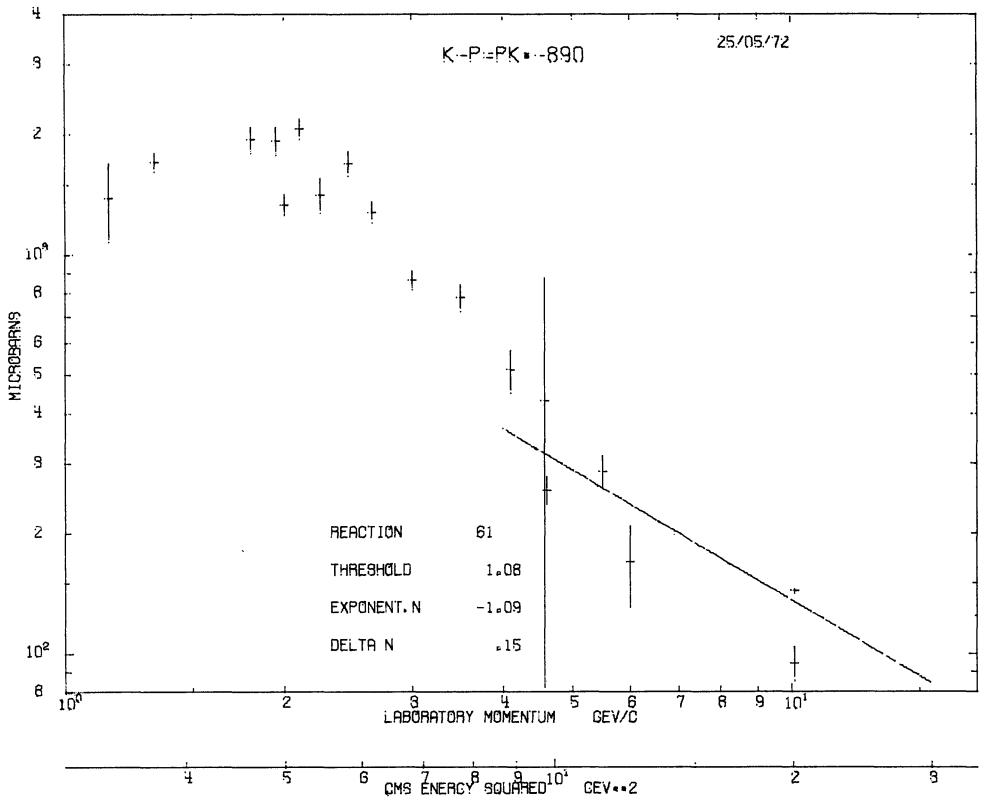

K-P=PK-PI+PI-
29/05/72
MICROBARNS
REACTION 27
THRESHOLD .89
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

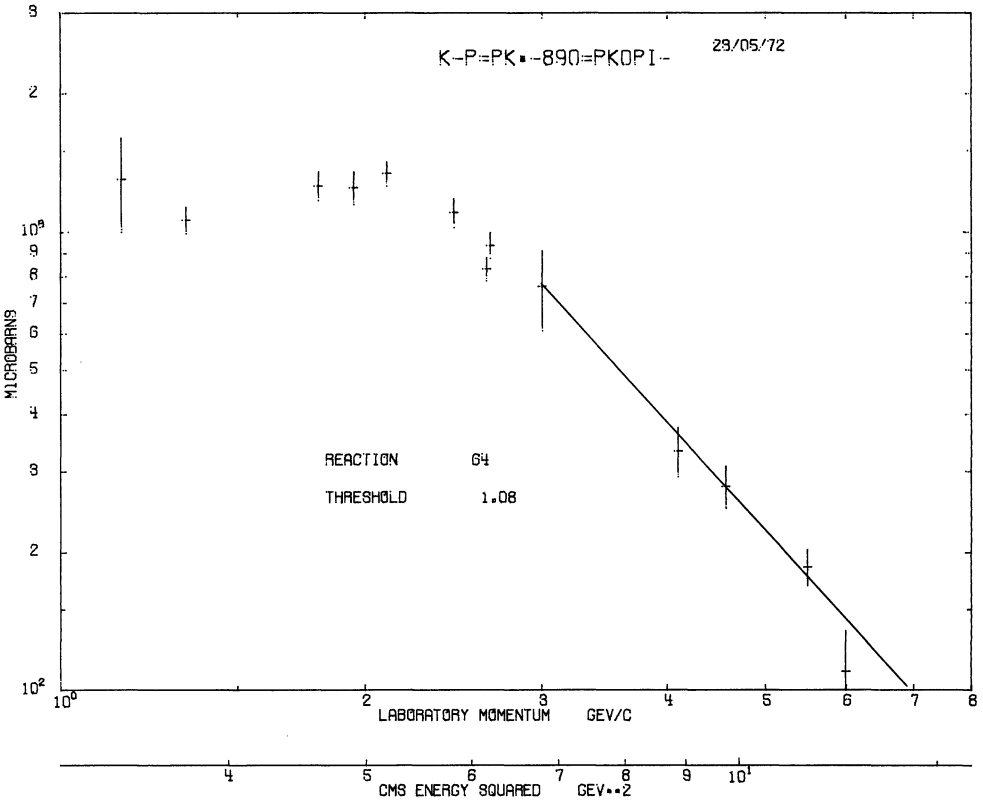

K-P:=PK-P1+PI-P10
29/05/72
MICROBARNS
REACTION 28
THRESHOLD 1.18
EXPONENT.N -.02
DELTA N .21
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

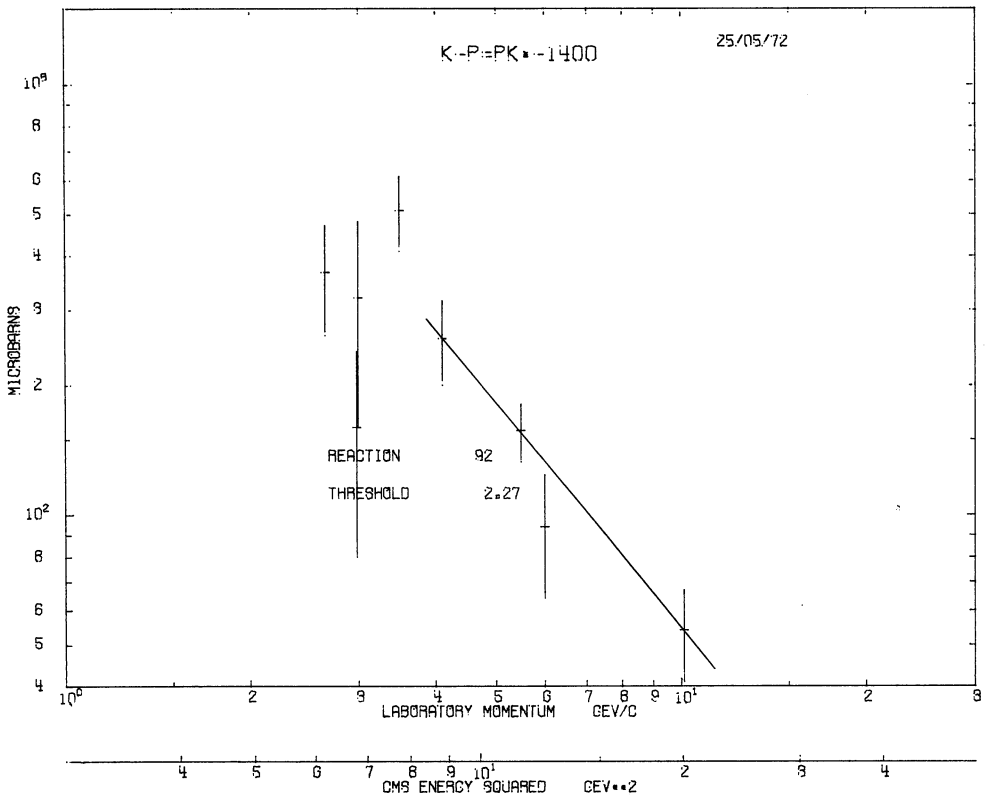

K-P:=PK-P10
05/06/72
MICROBARNS
REACTION 29
THRESHOLD .69
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

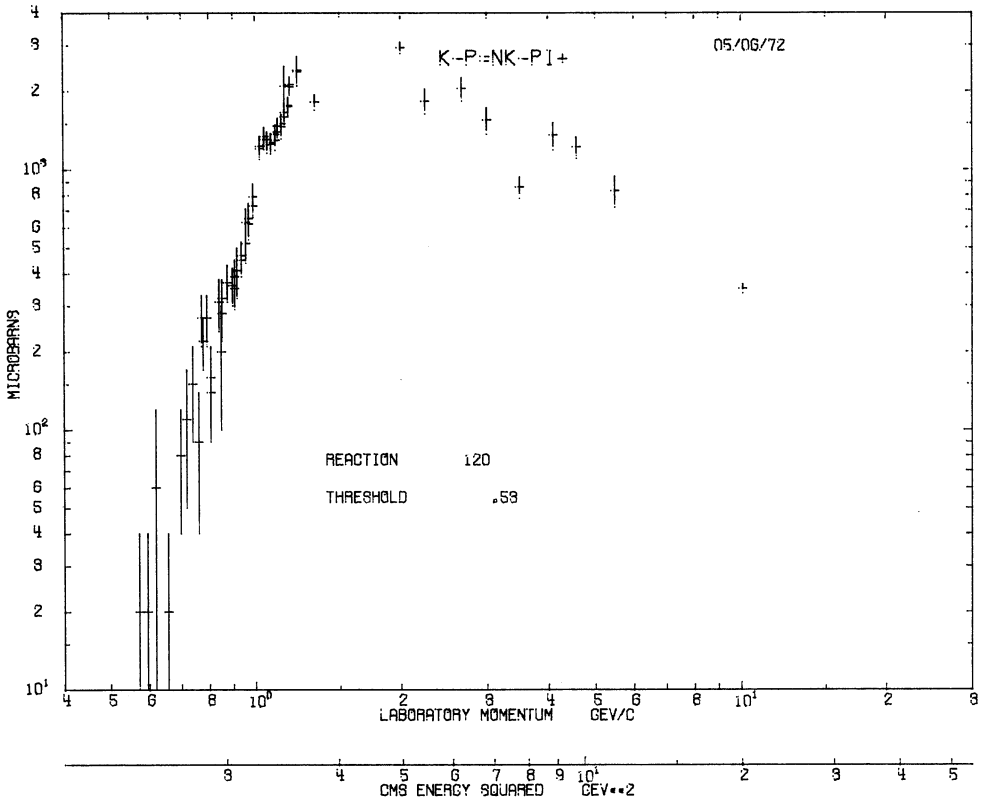

K-P:=PKOPI-
05/06/72
MICROBARNS
REACTION 41
THRESHOLD .58
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

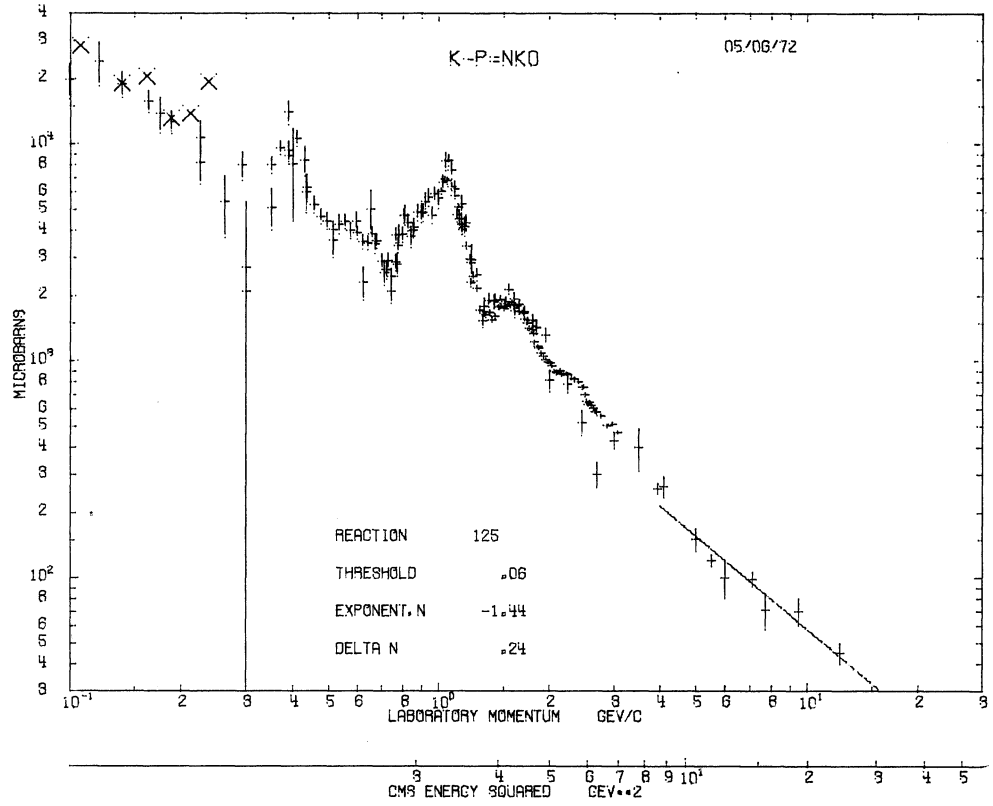

K-P:=PKOPI-PIO
29/05/72
MICROBARNS
REACTION 42
THRESHOLD .89
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

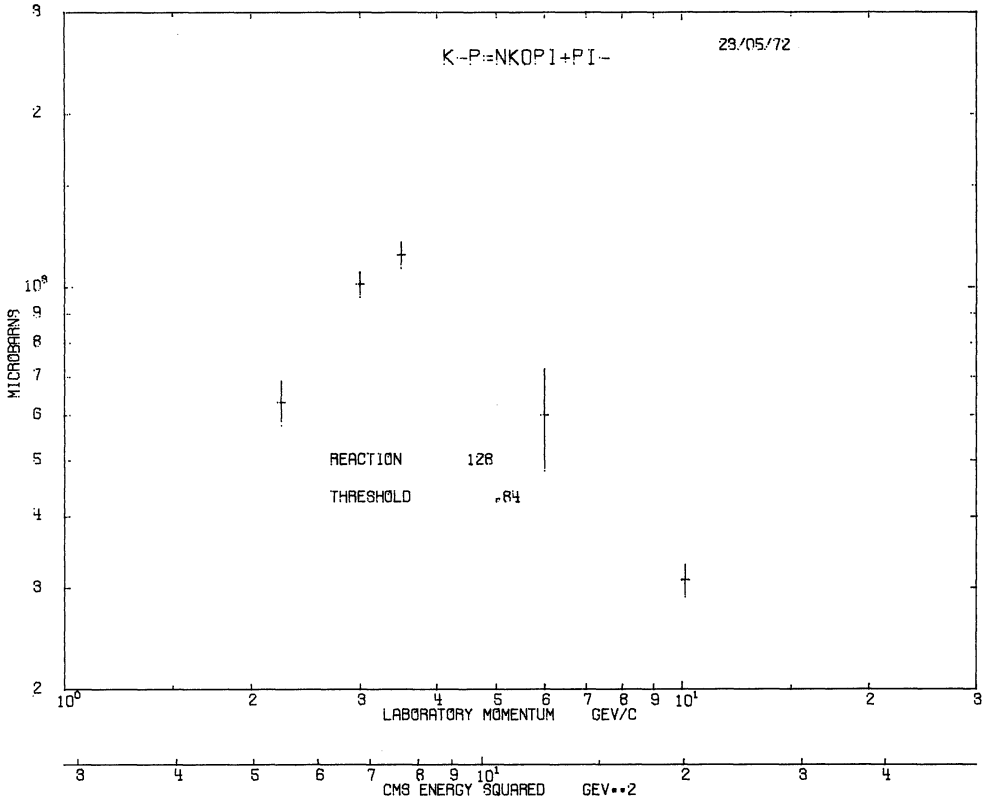

K-P:=PK*-890
25/05/72
MICROBARNS
REACTION 61
THRESHOLD 1.08
EXPONENT. N -1.09
DELTA N .15
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

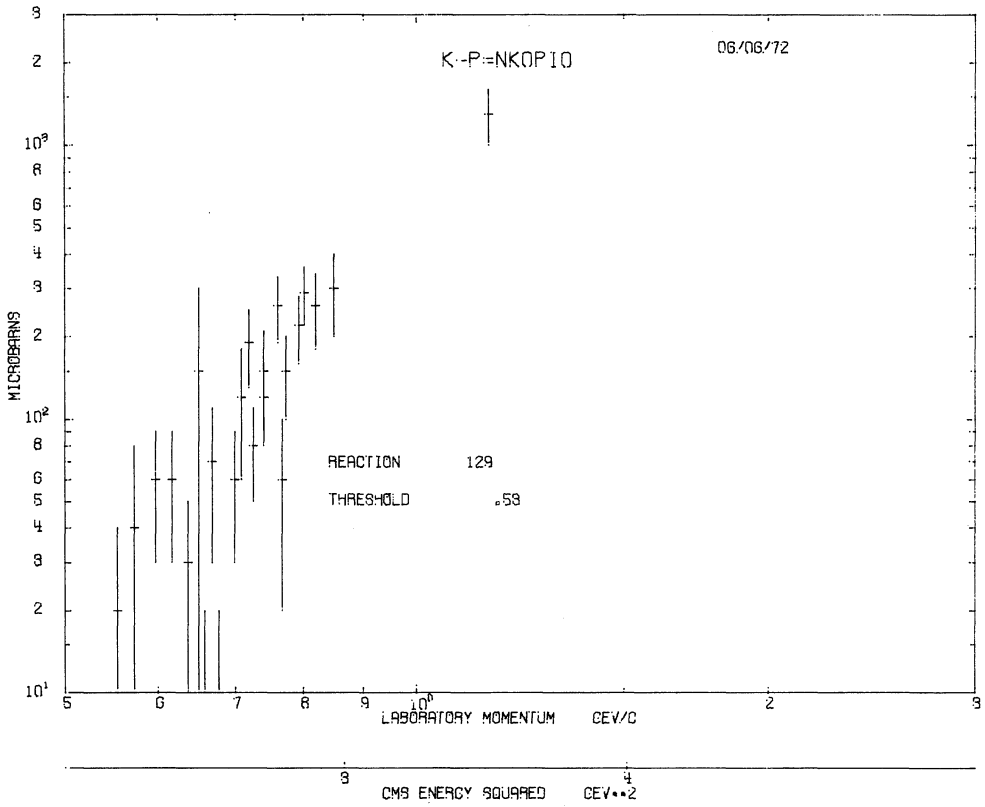

K-P:=PK*-890=PKOPI-
29/05/72
MICROBARNS
REACTION 64
THRESHOLD 1.08
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

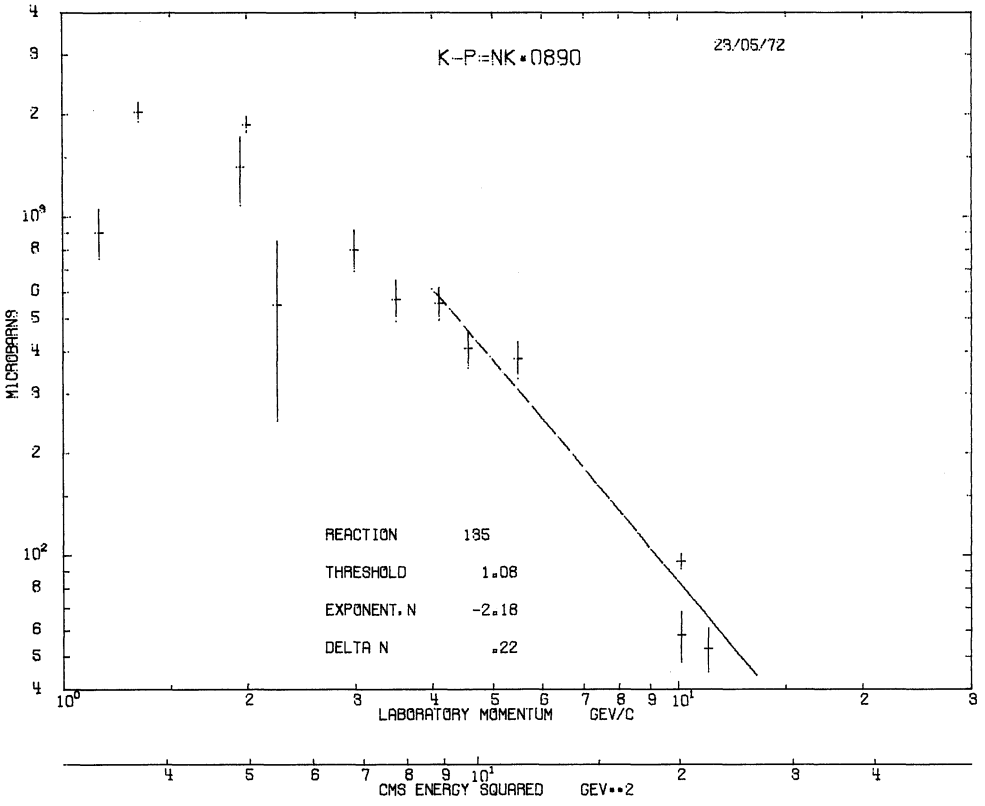

K-P:=PK*-1400
25/05/72
MICROBARNS
REACTION 92
THRESHOLD 2.27
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

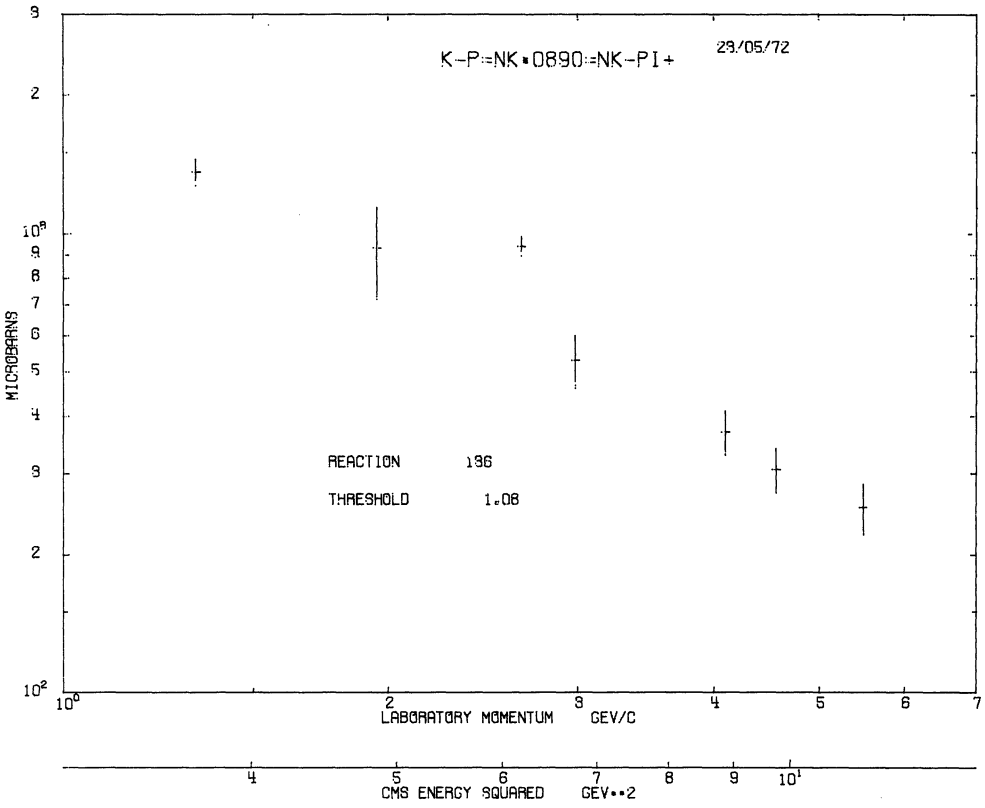

K-P:=NK-PI+
05/06/72
MICROBARNS
REACTION 120
THRESHOLD .59
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

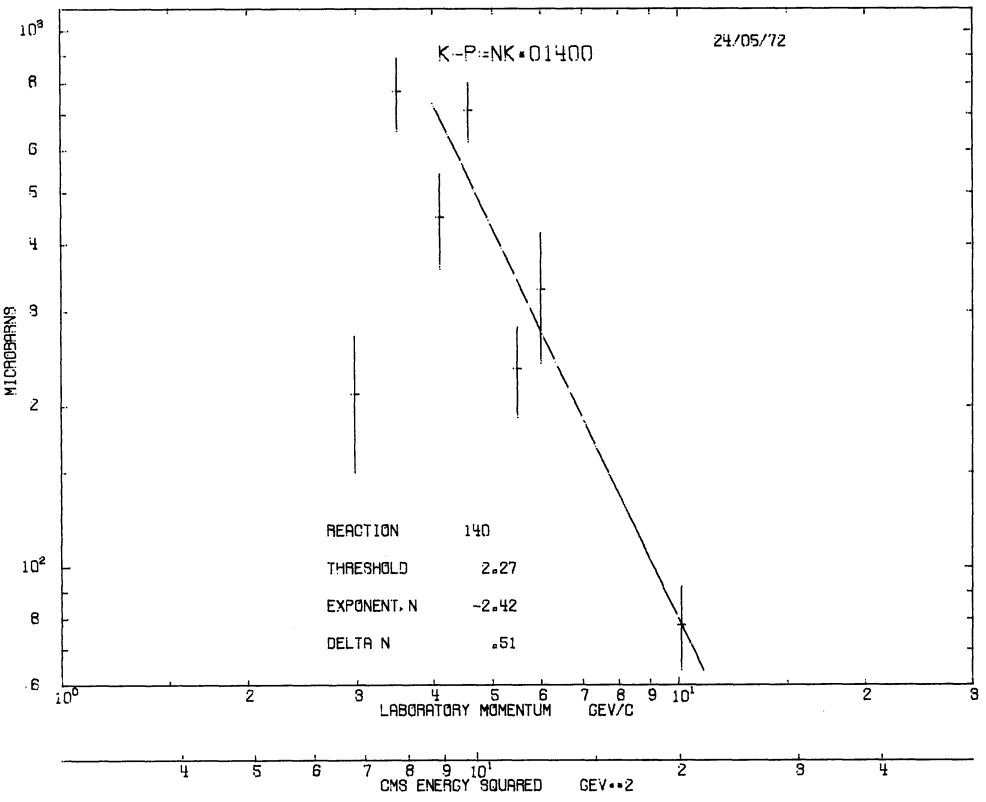

K-P:=NKO
05/06/72
MICROBARNS
REACTION 125
THRESHOLD .06
EXPONENT. N -1.44
DELTA N .24
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

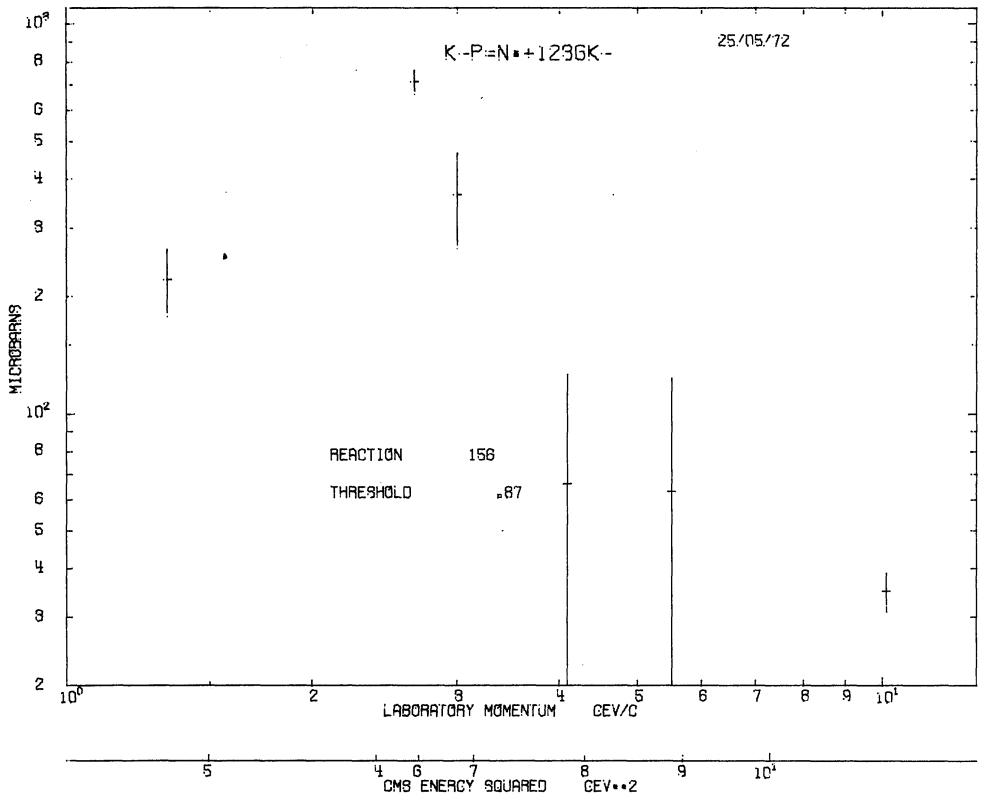

K-P:=NKOPI+PI-
29/05/72
MICROBARNS
REACTION 128
THRESHOLD .84
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

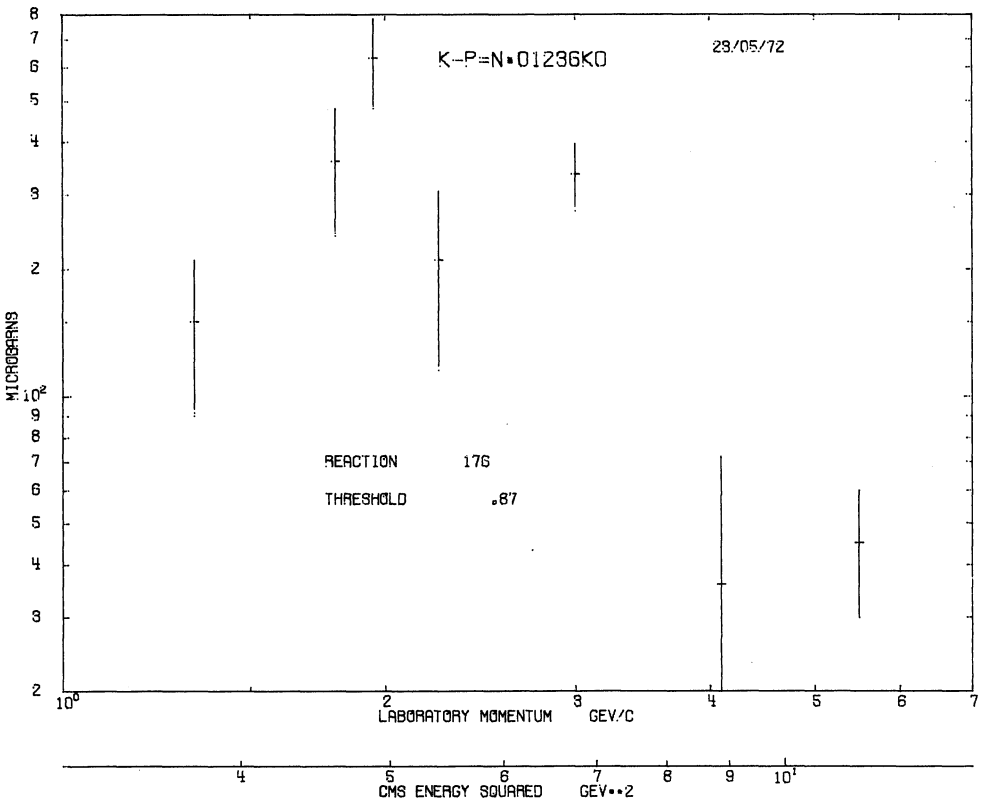

K-P:=NK0PI0
06/06/72
MICROBARNS
REACTION 129
THRESHOLD .53
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

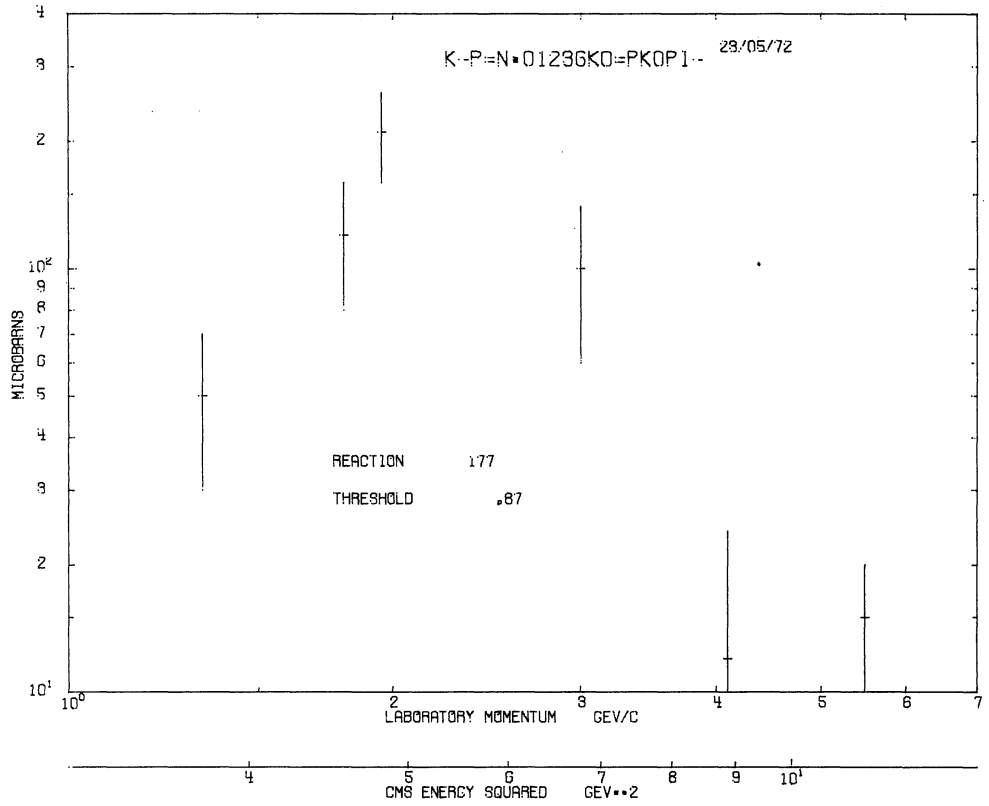

K-P:=NK*0890
29/05/72
MICROBARNS
REACTION 135
THRESHOLD 1.08
EXPONENT, N -2.18
DELTA N .22
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

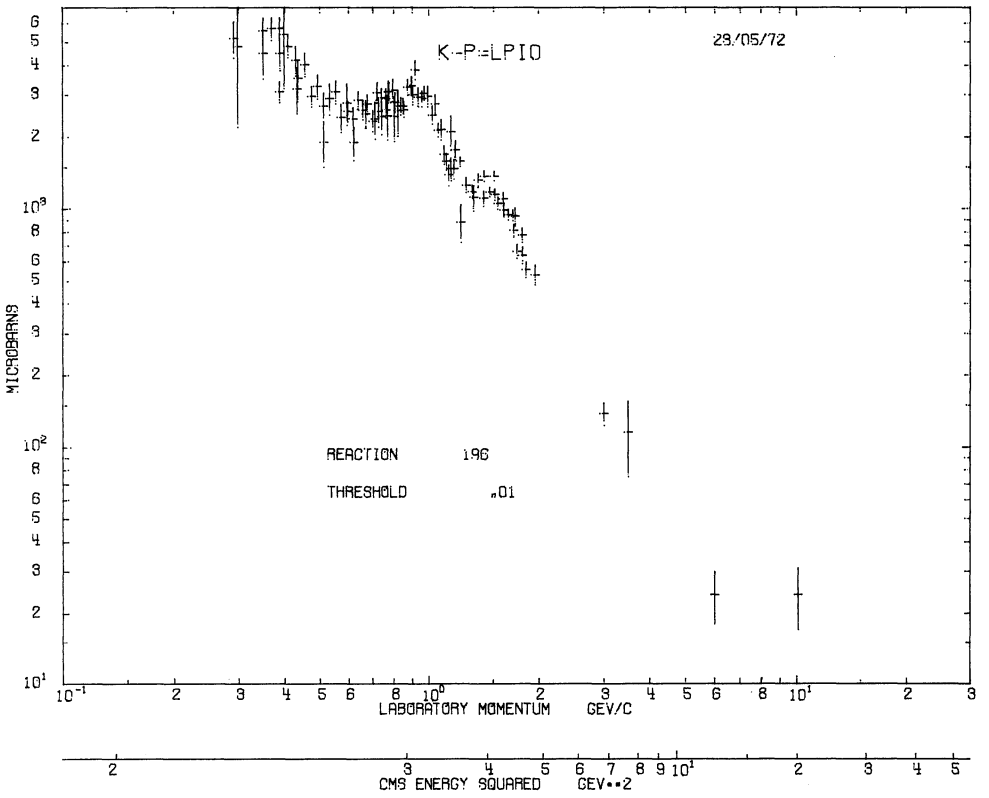

K-P:=NK*0890:=NK-PI+
29/05/72
MICROBARNS
REACTION 136
THRESHOLD 1.08
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

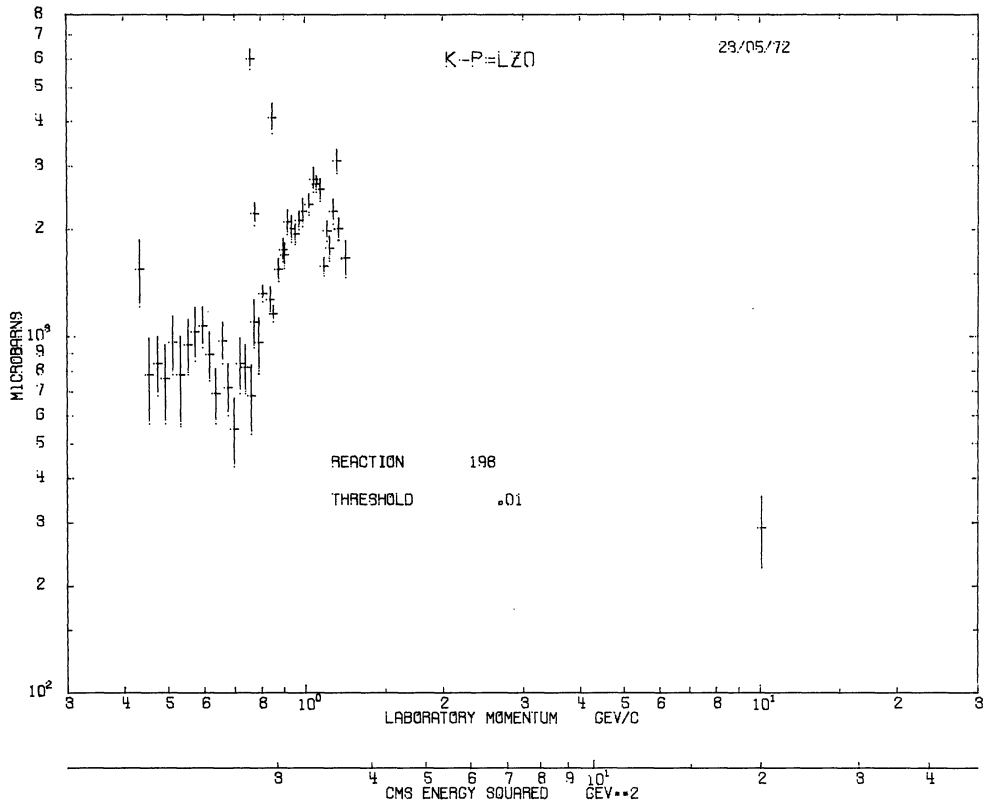

K-P:=NK*01400
24/05/72
MICROBARNS
REACTION 140
THRESHOLD 2.27
EXPONENT. N -2.42
DELTA N .51
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

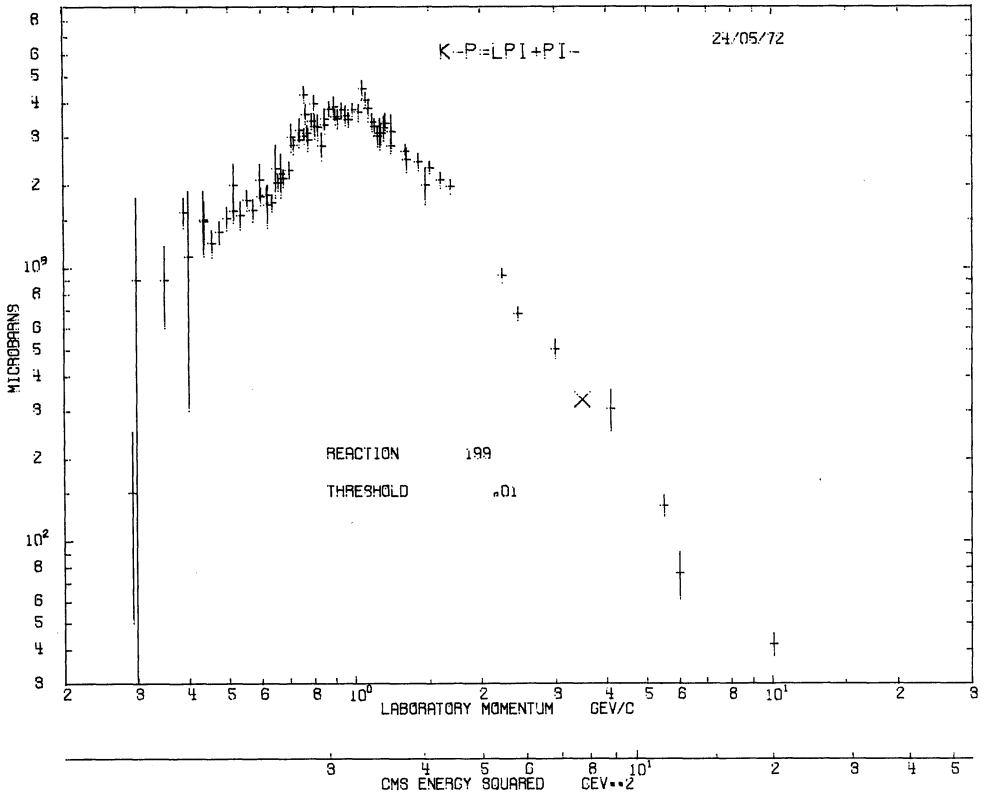

K-P=N*+1236K-
25/05/72
MICROBARNS
REACTION 156
THRESHOLD .87
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

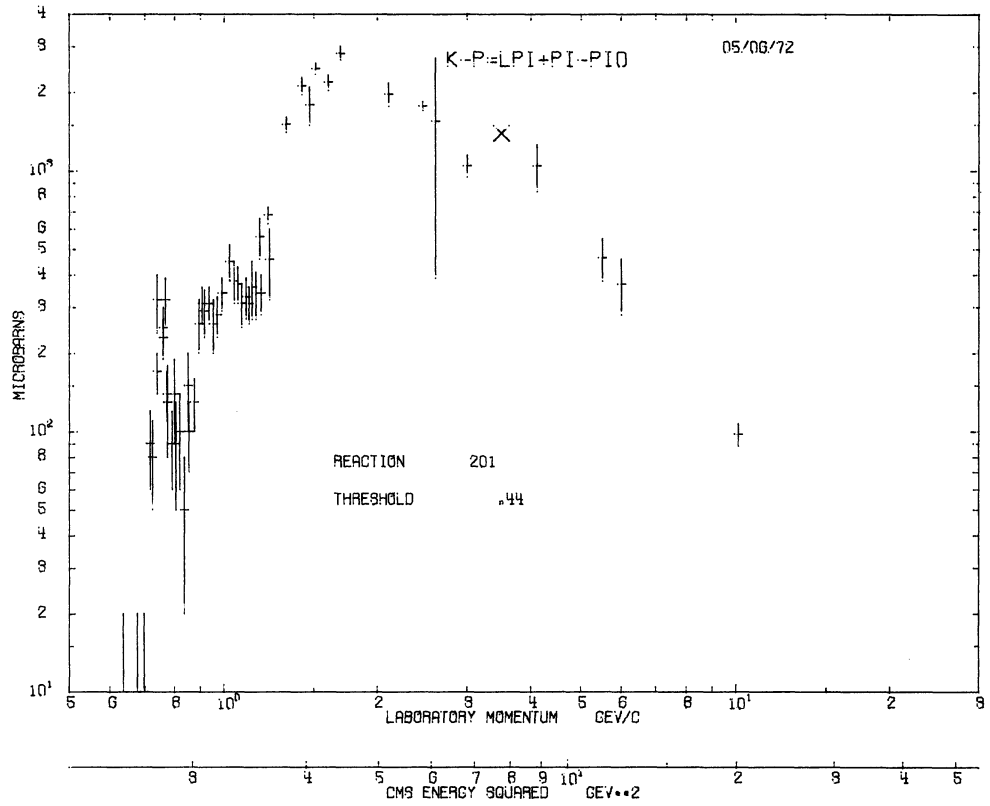

K-P=N*01236K0
23/05/72
MICROBARNS
REACTION 176
THRESHOLD .87
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

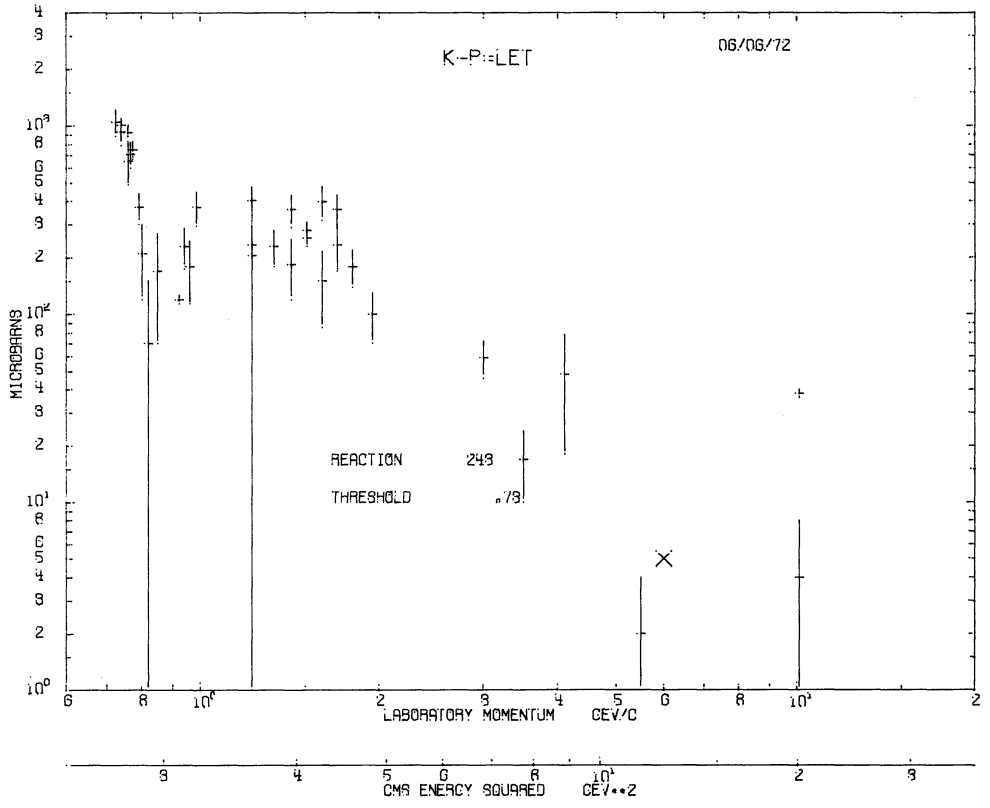

K-P:=N*01236KO=PKOP1-
28/05/72
MICROBARNS
REACTION 177
THRESHOLD .87
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

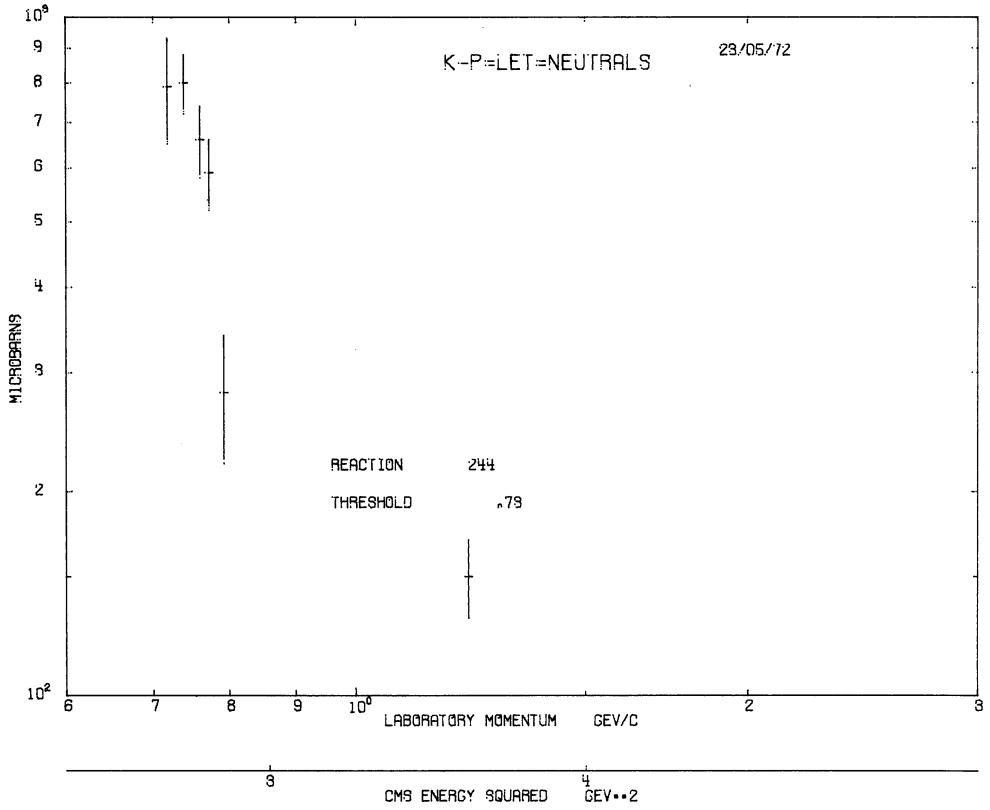

K-P:=LP1O
28/05/72
MICROBARNS
REACTION 196
THRESHOLD .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

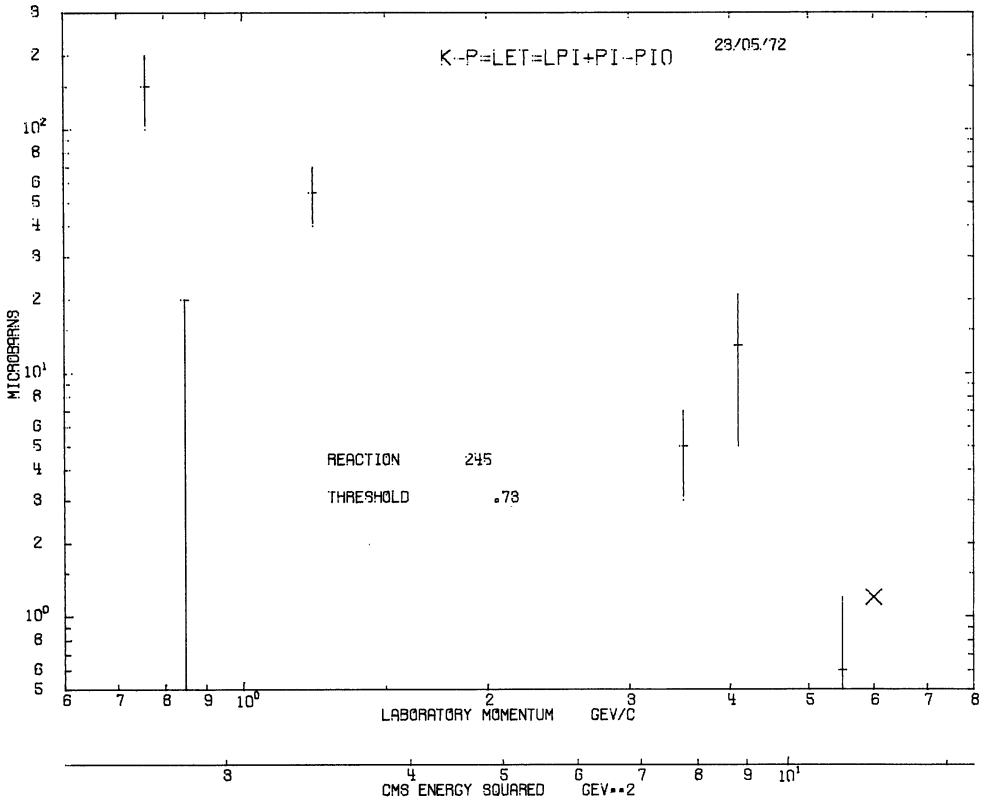

K-P:=LZ0
29/05/72
MICROBARNS
REACTION 198
THRESHOLD .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

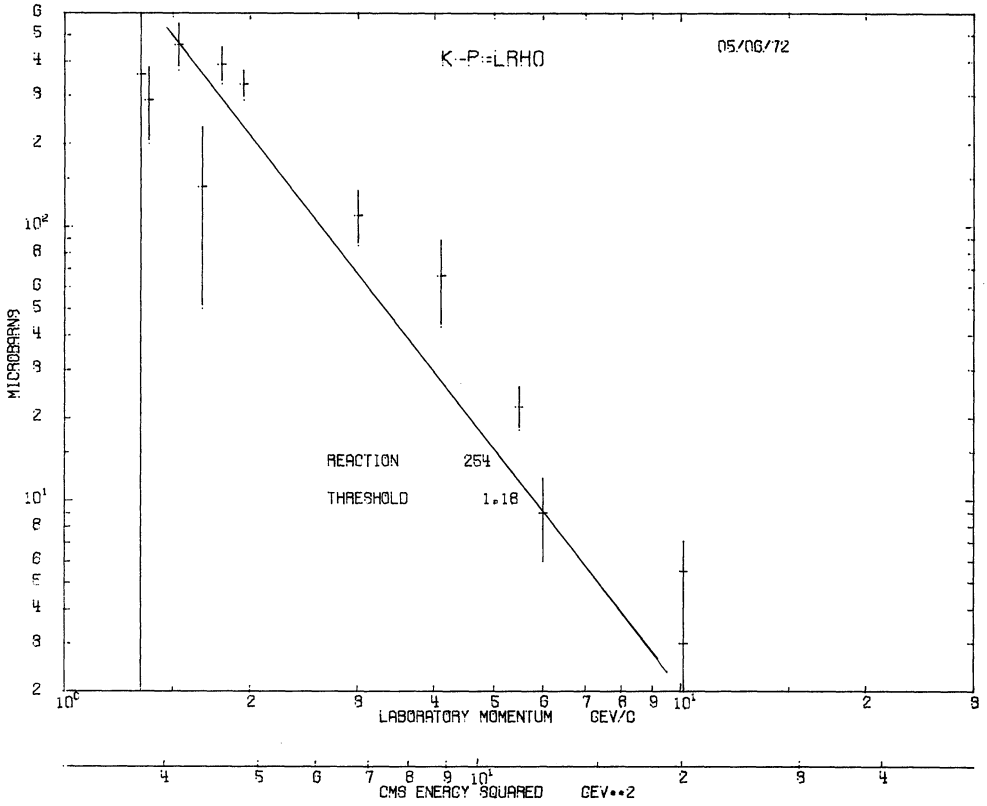

K-P:=LPI+PI-
24/05/72
MICROBARNS
REACTION 199
THRESHOLD .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

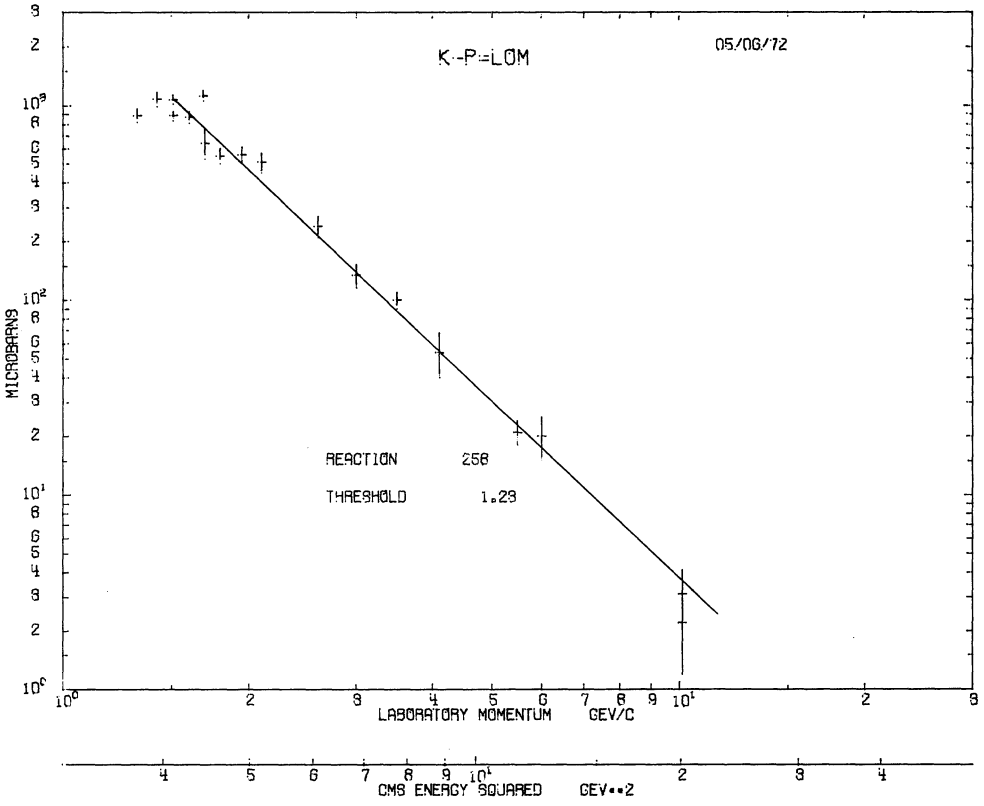

K-P:=LPI+PI-PIO
05/06/72
MICROBARNS
REACTION 201
THRESHOLD 1.44
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

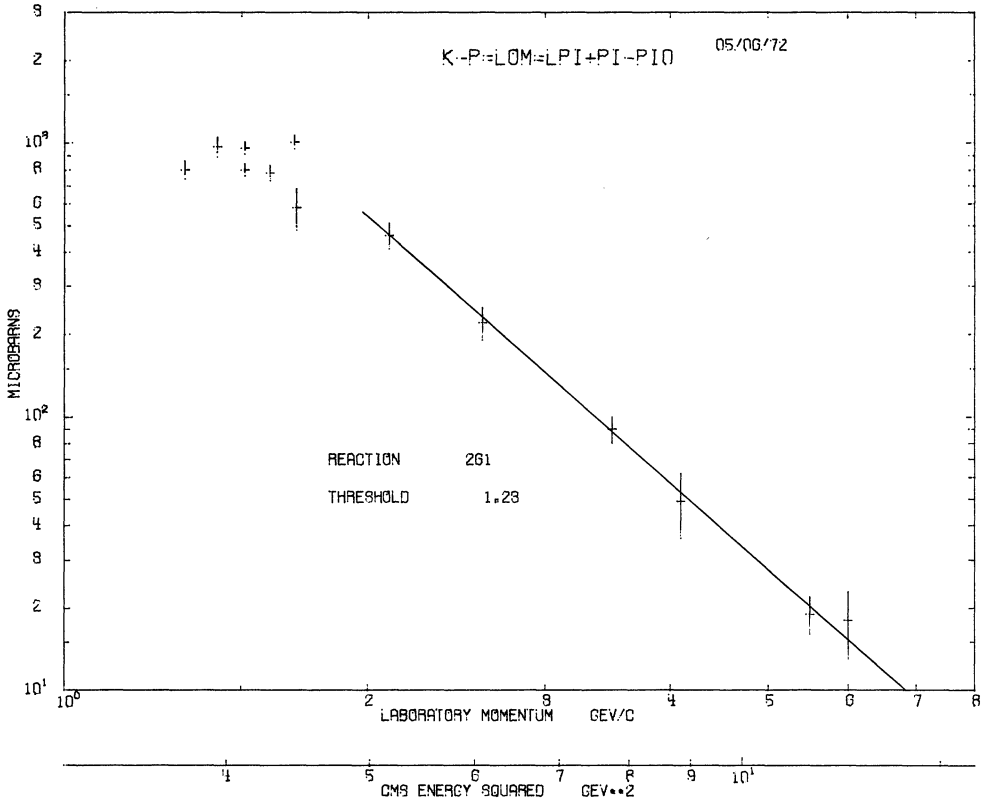

K-P:=LET
06/06/72
MICROBARNS
REACTION 243
THRESHOLD 1.73
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

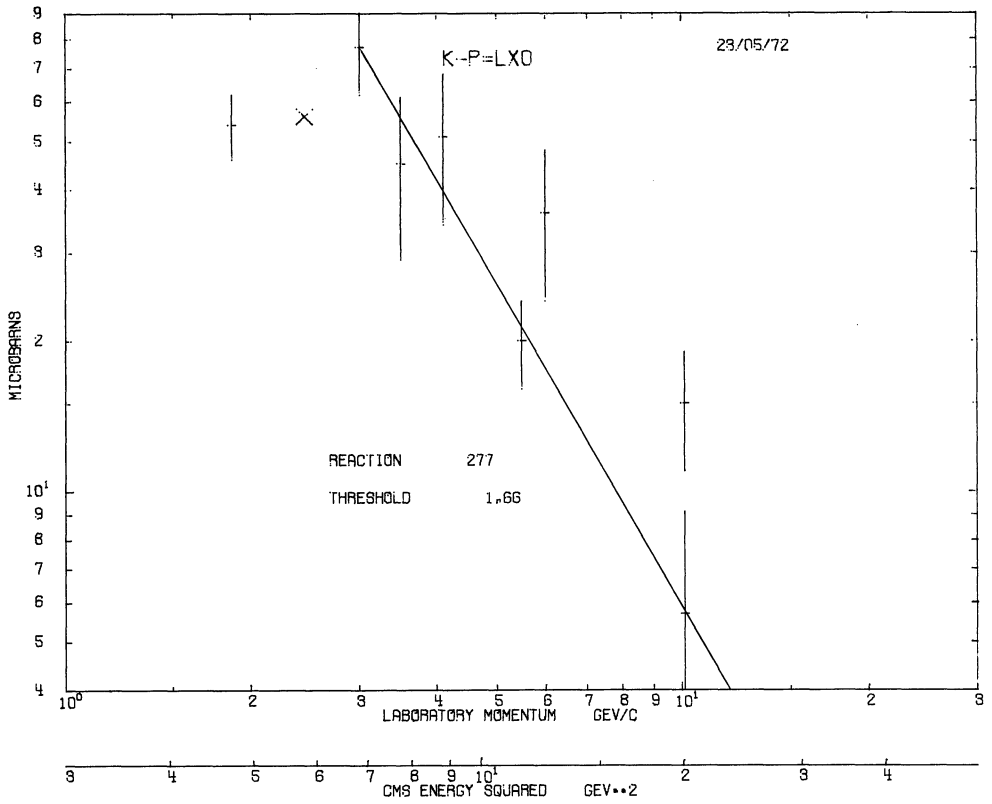

K-P=LET=NEUTRALS
23/05/72
MICROBARNS
REACTION 244
THRESHOLD .78
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

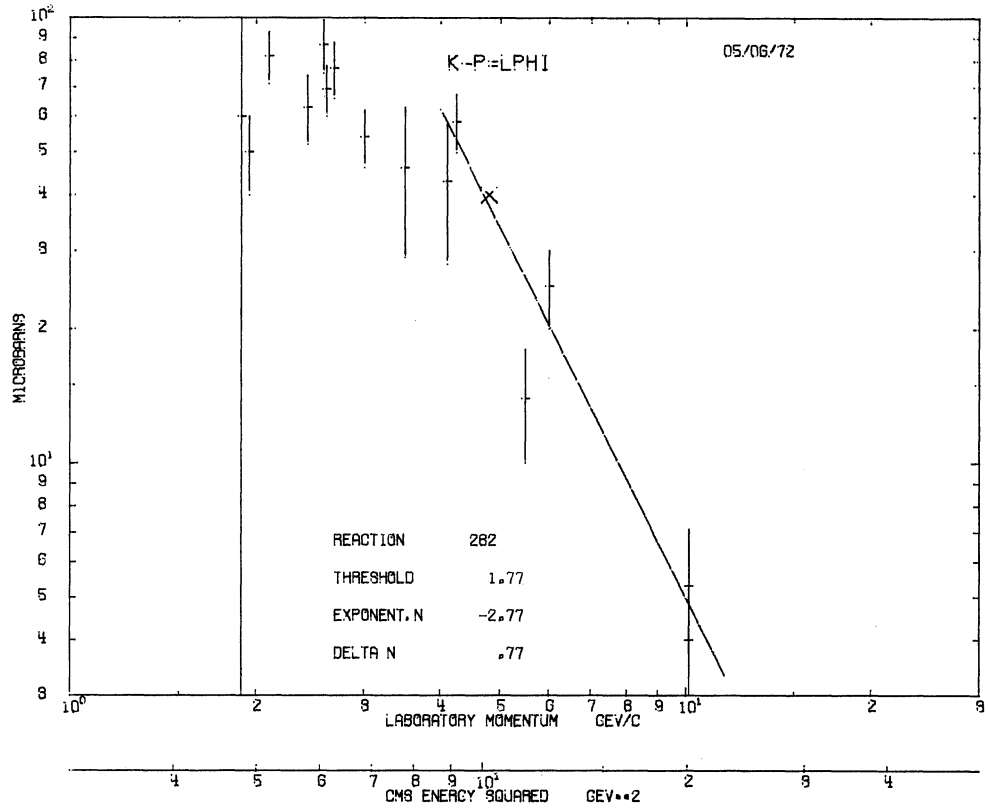

K-P=LET=LPI+PI-PIO
23/05/72
MICROBARNS
REACTION 245
THRESHOLD .78
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

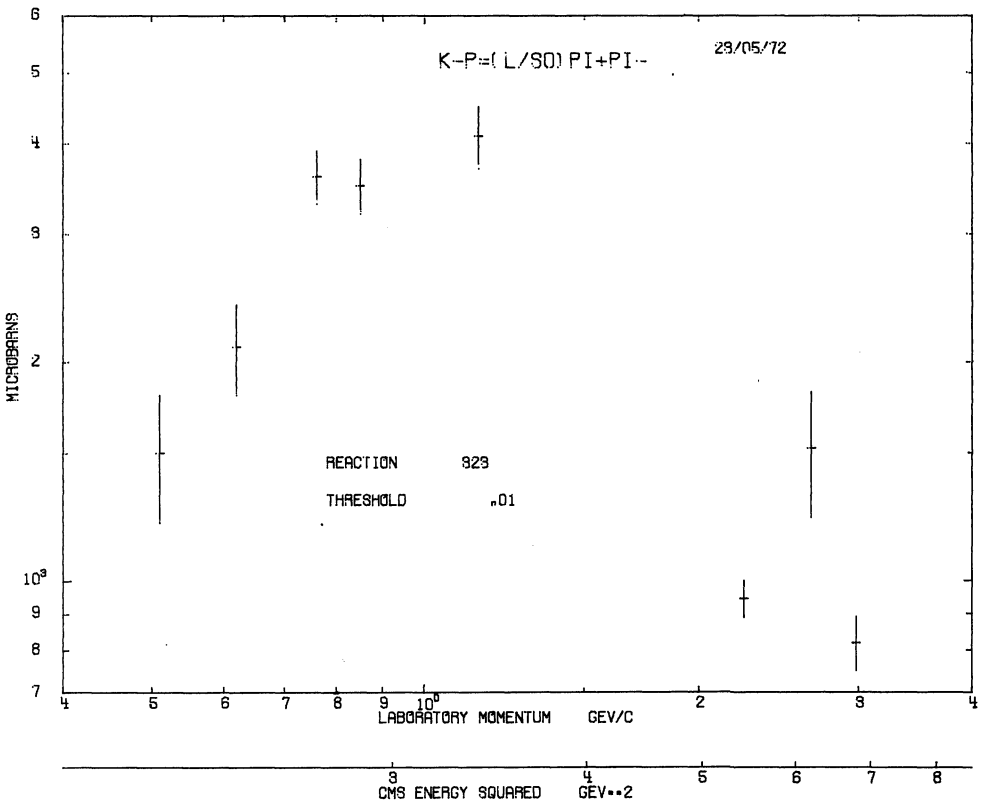

K-P=LRHO
05/06/72
REACTION 254
THRESHOLD 1.18
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

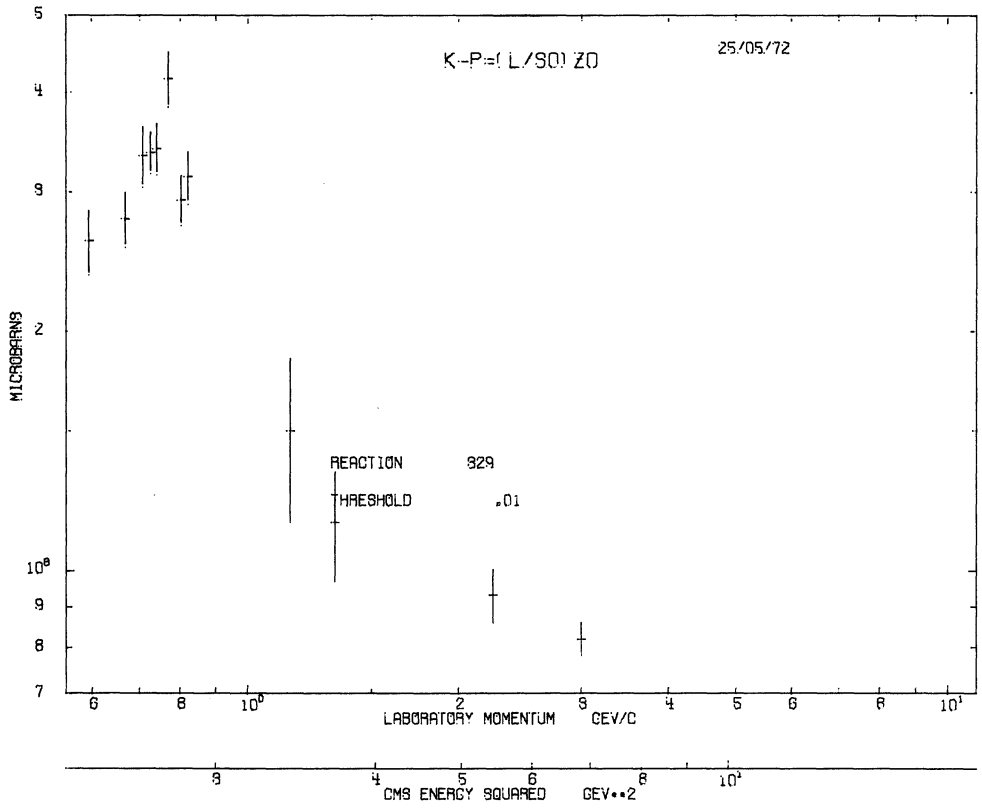

K-P=LOM
05/06/72
REACTION 258
THRESHOLD 1.29
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

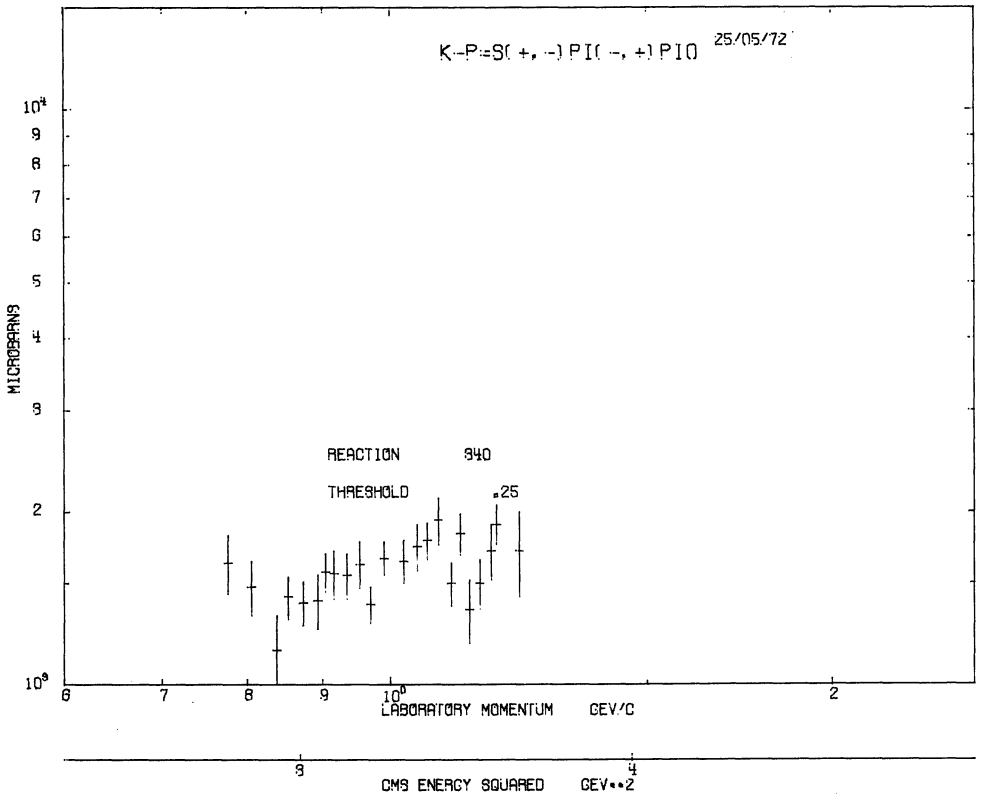

K-P:=LOM:=LPI+PI-PIO
05/06/72
MICROBARNS
REACTION 261
THRESHOLD 1.23
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

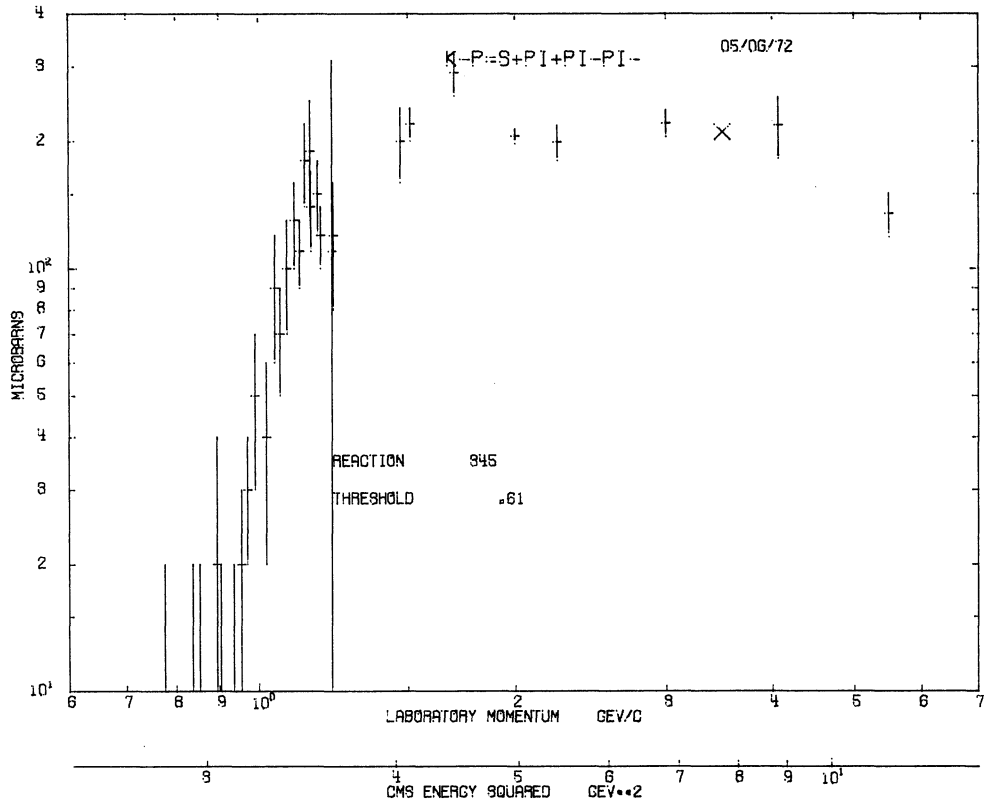

K-P:=LXO
23/05/72
MICROBARNS
REACTION 277
THRESHOLD 1.66
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

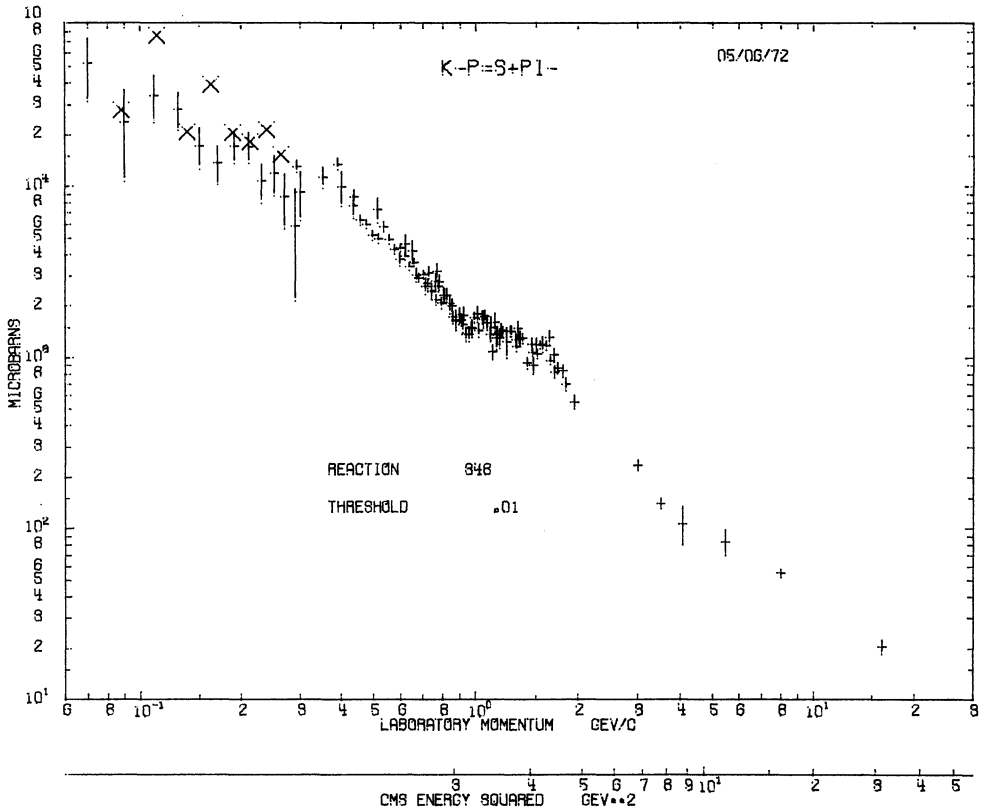

K-P:=LPHI
05/06/72
MICROBARNS
REACTION 282
THRESHOLD 1.77
EXPONENT.N -2.77
DELTA N .77
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

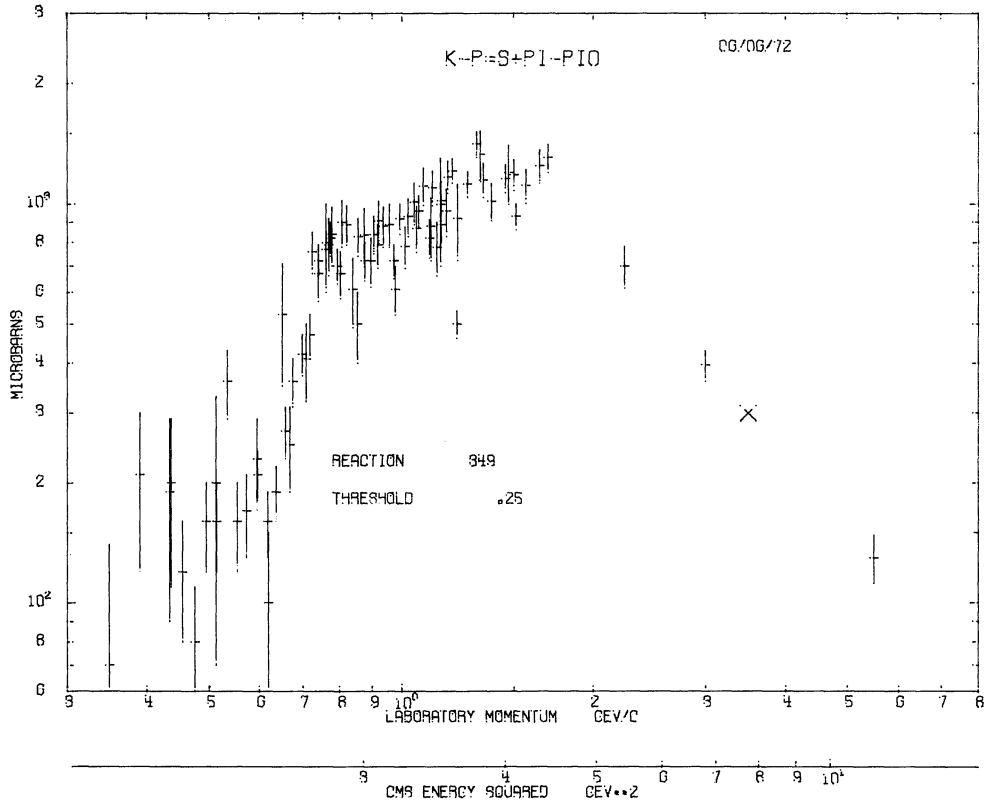

K-P:(L/SO)PI+PI-
29/05/72
MICROBARNS
REACTION 329
THRESHOLD .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

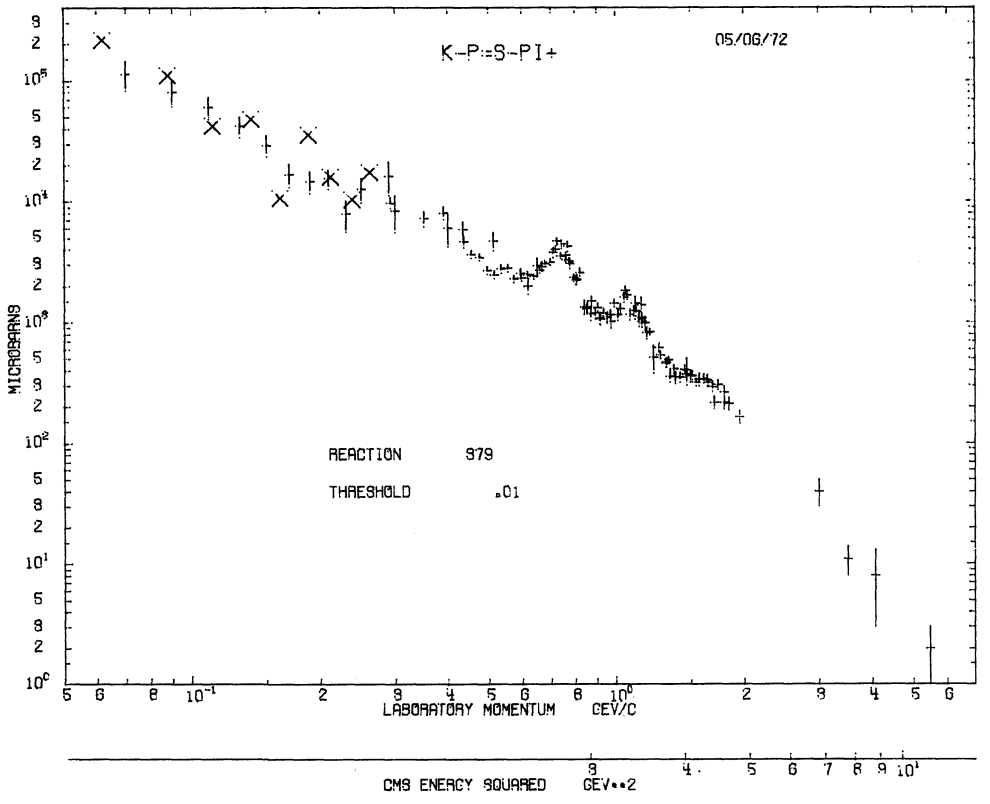

K-P=(L/SO) ZO
25/05/72
MICROBARNS
REACTION 929
THRESHOLD .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

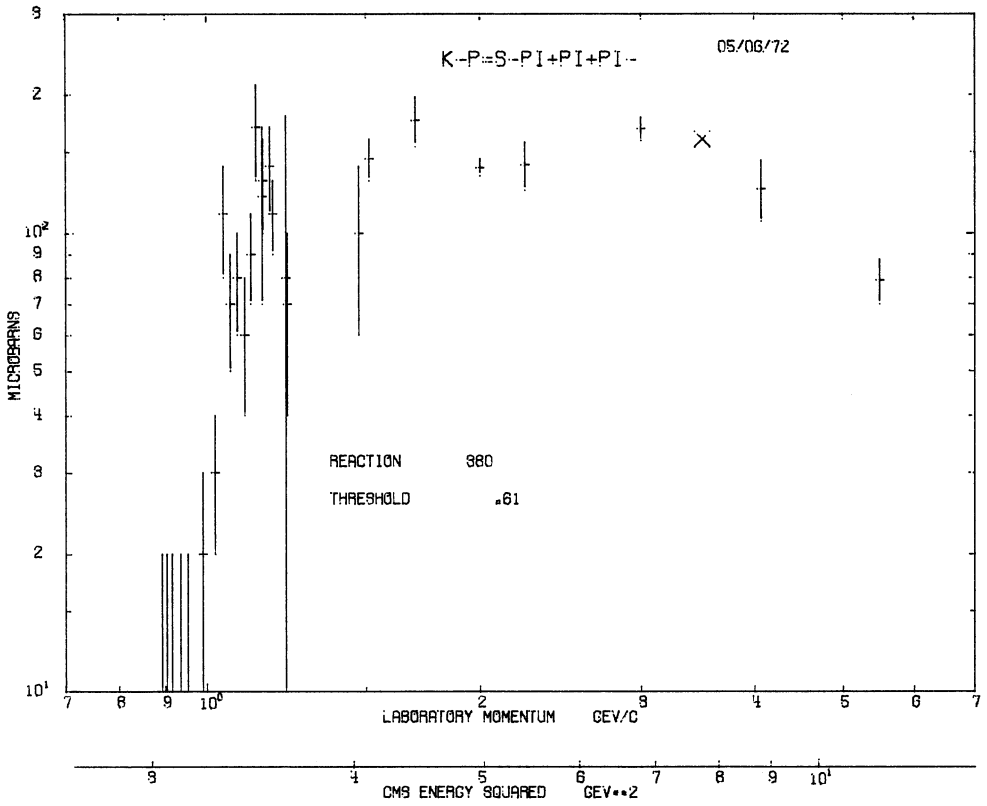

K-P=S(+, -) PI(-, +) PIO
25/05/72
MICROBARNS
REACTION 940
THRESHOLD .25
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

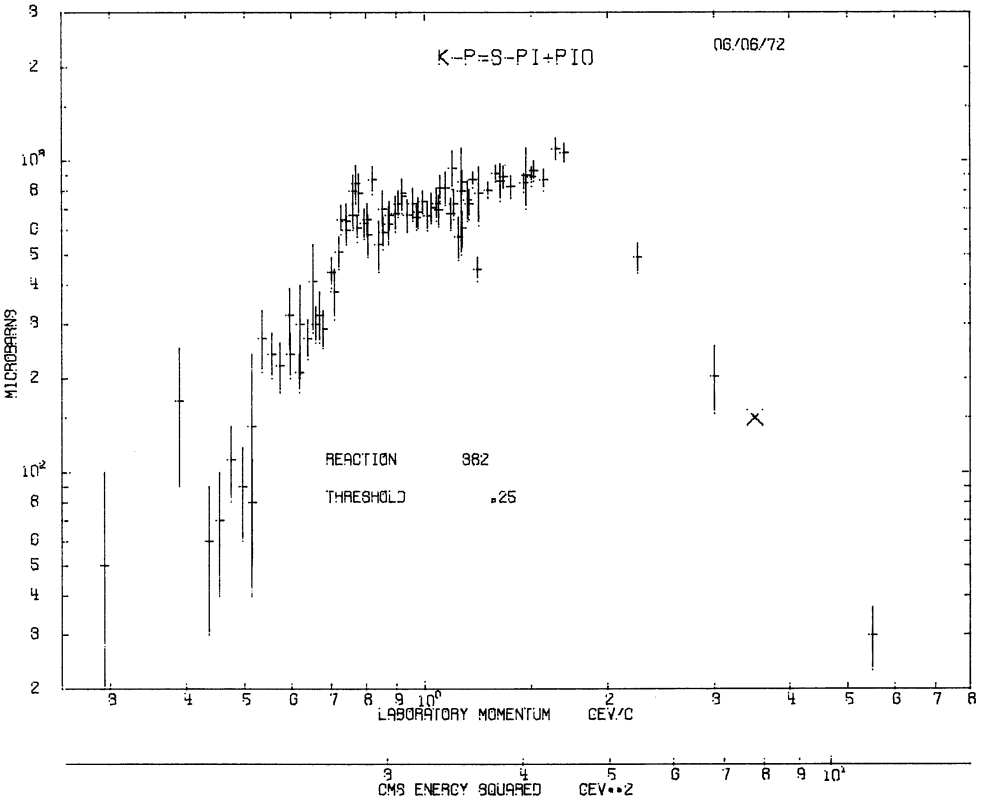

K-P:=S+PI+PI-PI-
05/06/72
MICROBARNS
REACTION 845
THRESHOLD .61
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

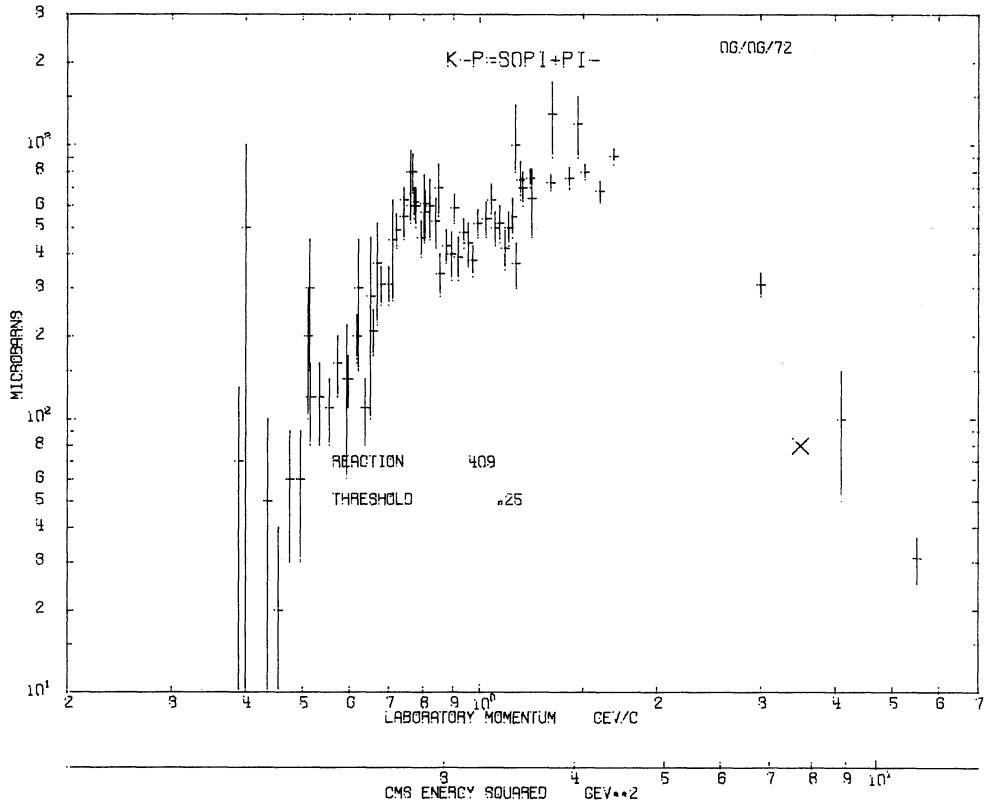

K-P:=S+PI-
05/06/72
MICROBARNS
REACTION 848
THRESHOLD .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

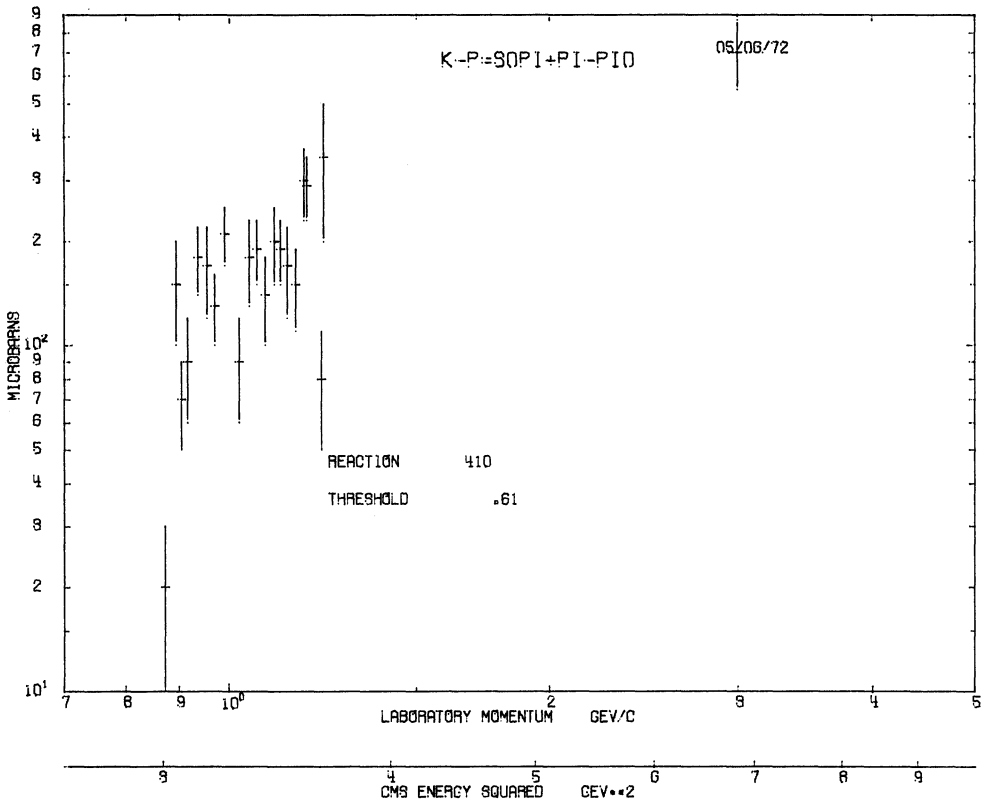

K-P:=S+PI-PIO
06/06/72
MICROBARNS
REACTION 349
THRESHOLD .25
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

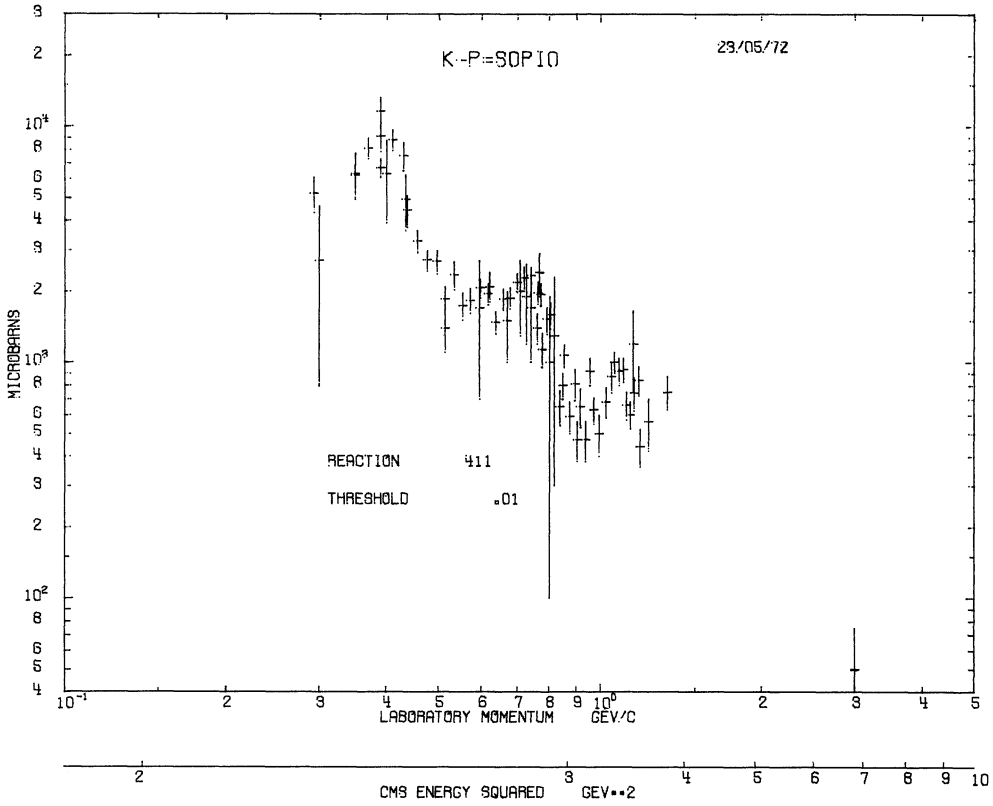

K-P:=S-PI+
05/06/72
MICROBARNS
REACTION 379
THRESHOLD .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

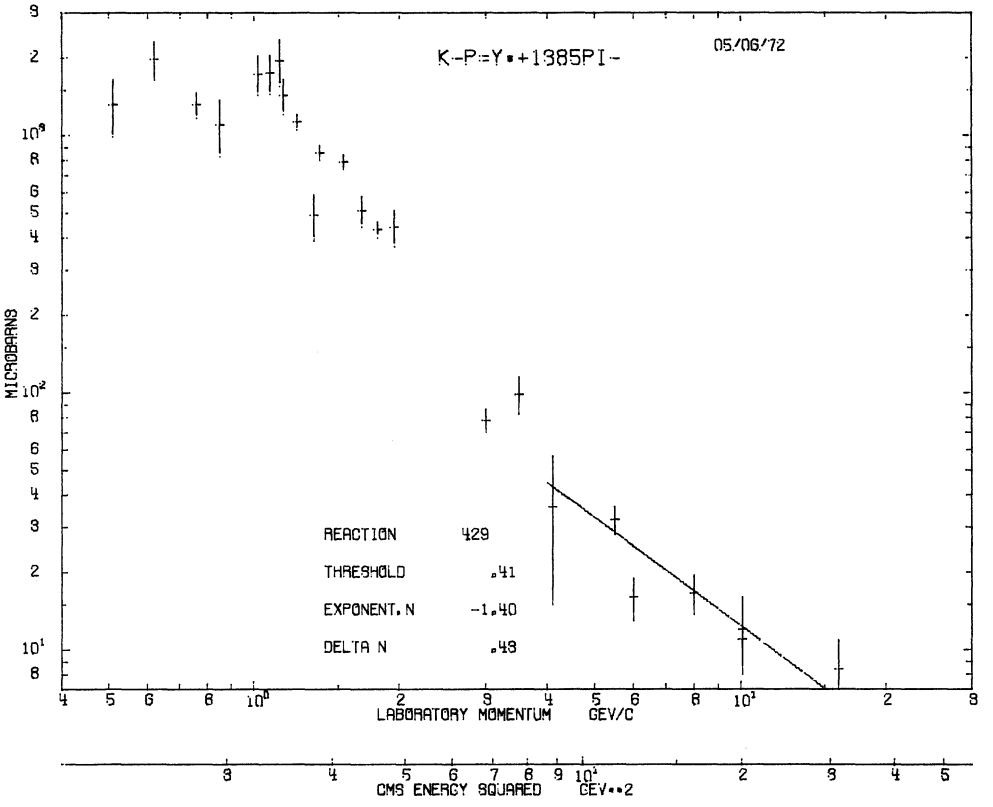

K-P=S-PI+PI+PI-
05/06/72
MICROBARNS
REACTION 380
THRESHOLD .61
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

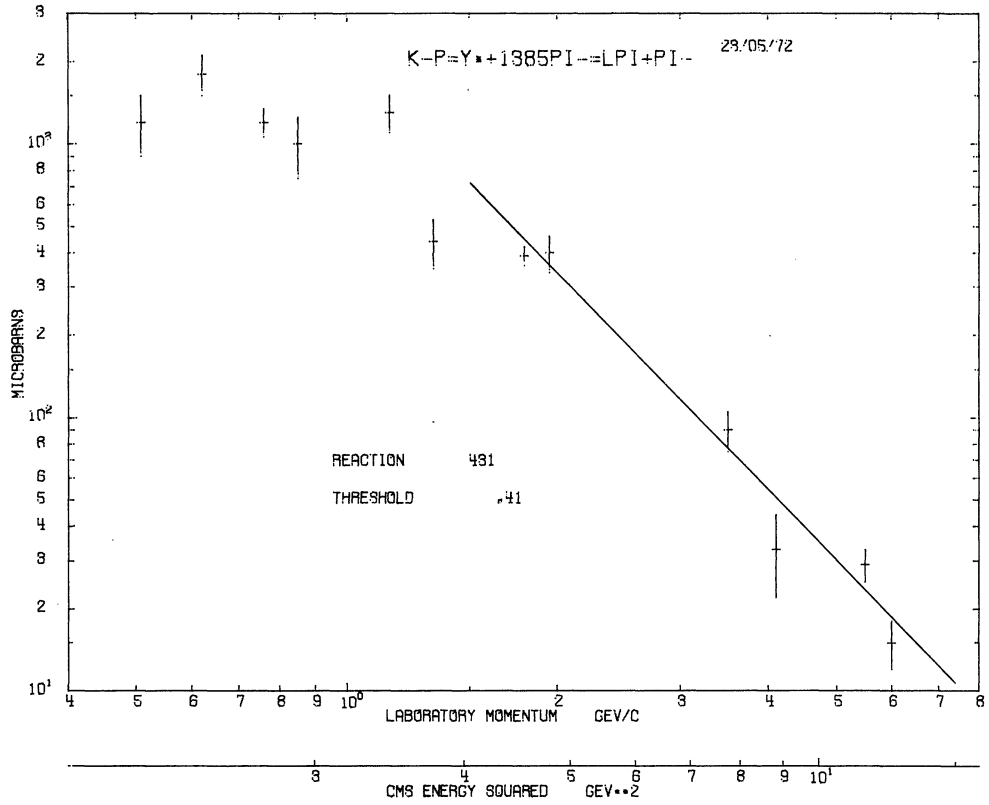

K-P=S-PI+PI0
06/06/72
MICROBARNS
REACTION 382
THRESHOLD .25
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

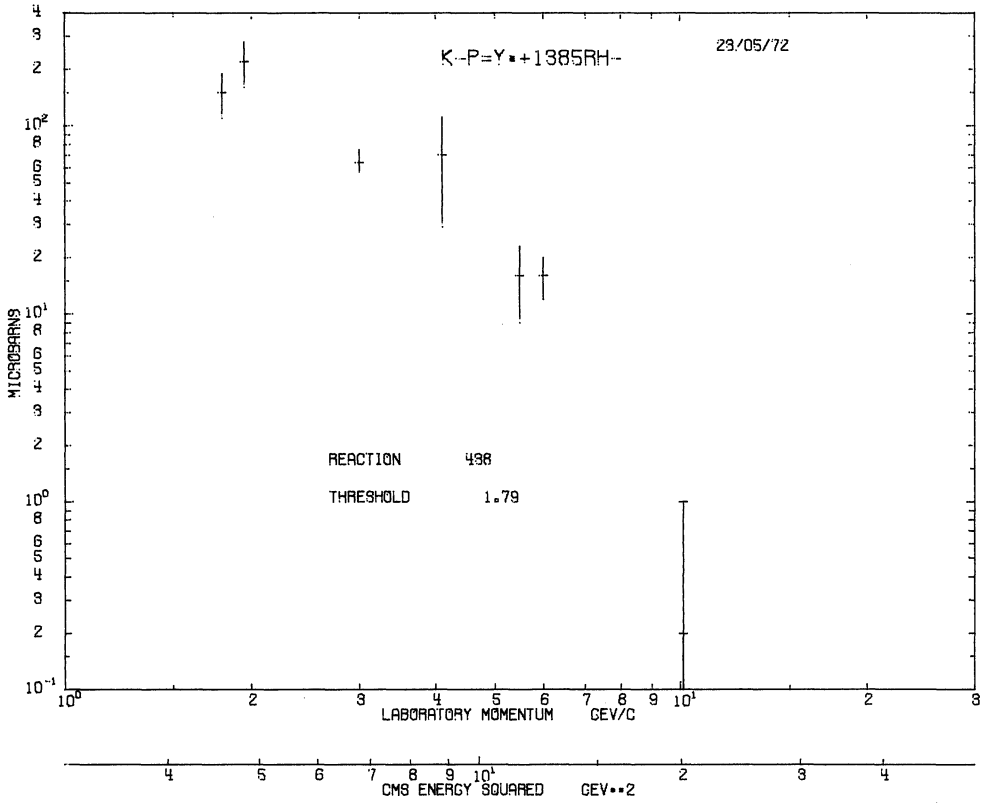

K-P:=SOPI+PI-
06/06/72
MICROBARNS
REACTION 409
THRESHOLD .25
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

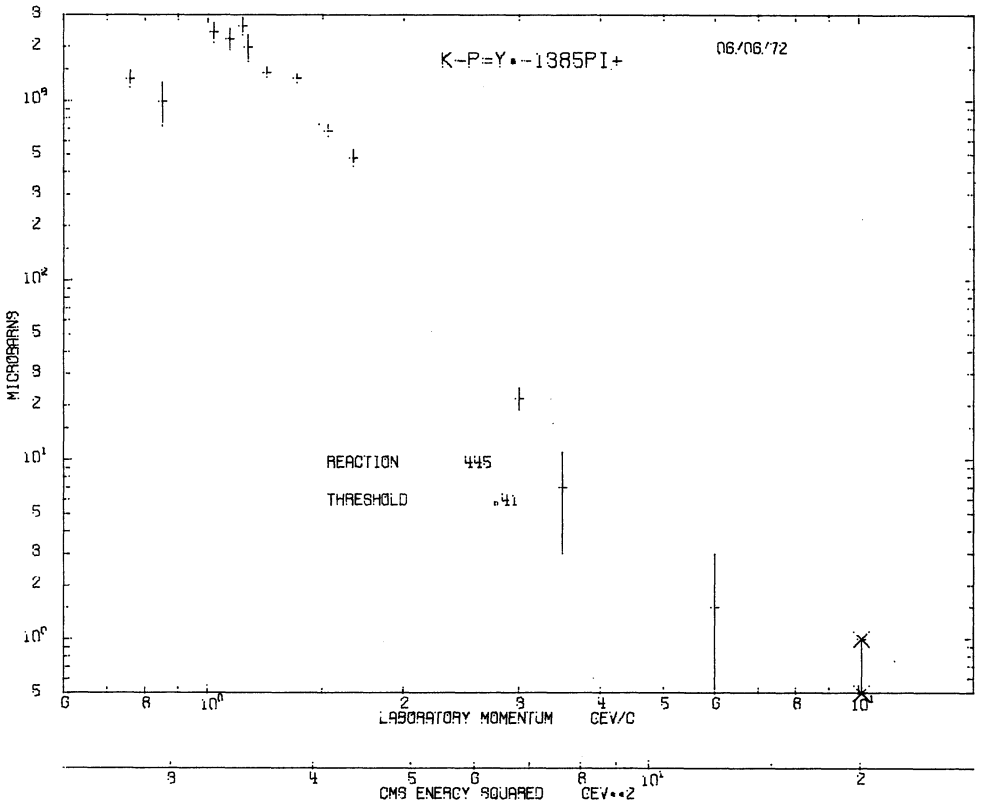

K-P:=SOPI+PI-PIO
05/06/72
MICROBARNS
REACTION 410
THRESHOLD .61
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

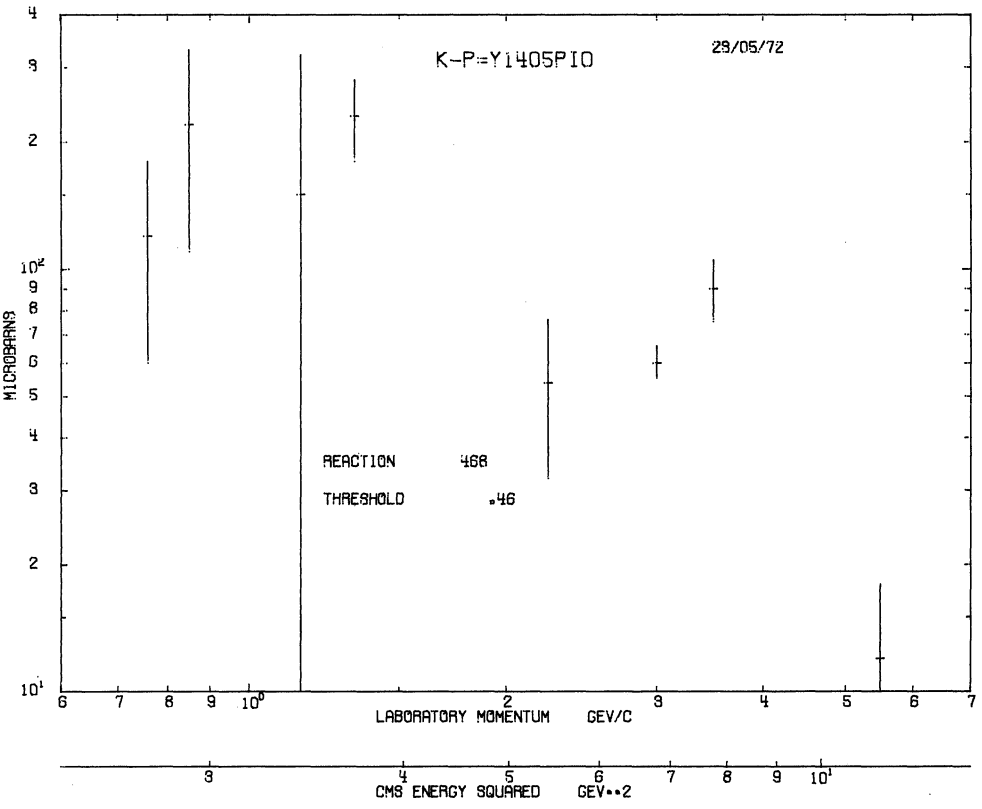

K-P:=SOPIO
23/05/72
MICROBARNS
REACTION 411
THRESHOLD .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

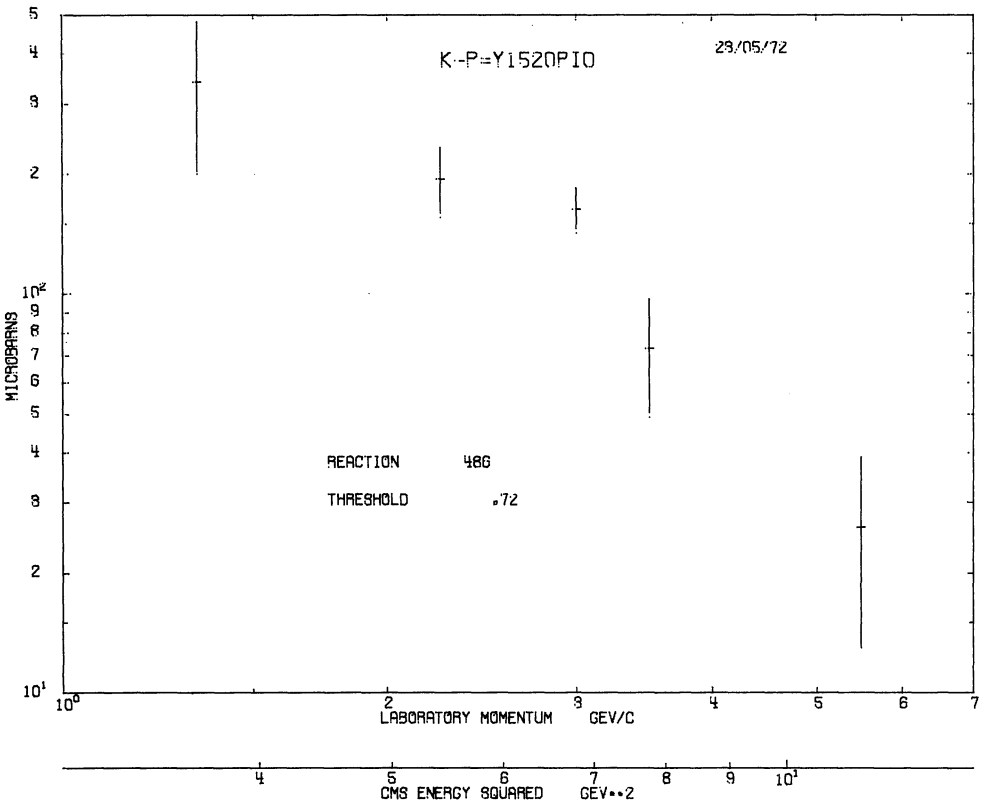

K-P:=Y*+1385PI-
05/06/72
MICROBARNS
REACTION 429
THRESHOLD .41
EXPONENT.N -1.40
DELTA N .48
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

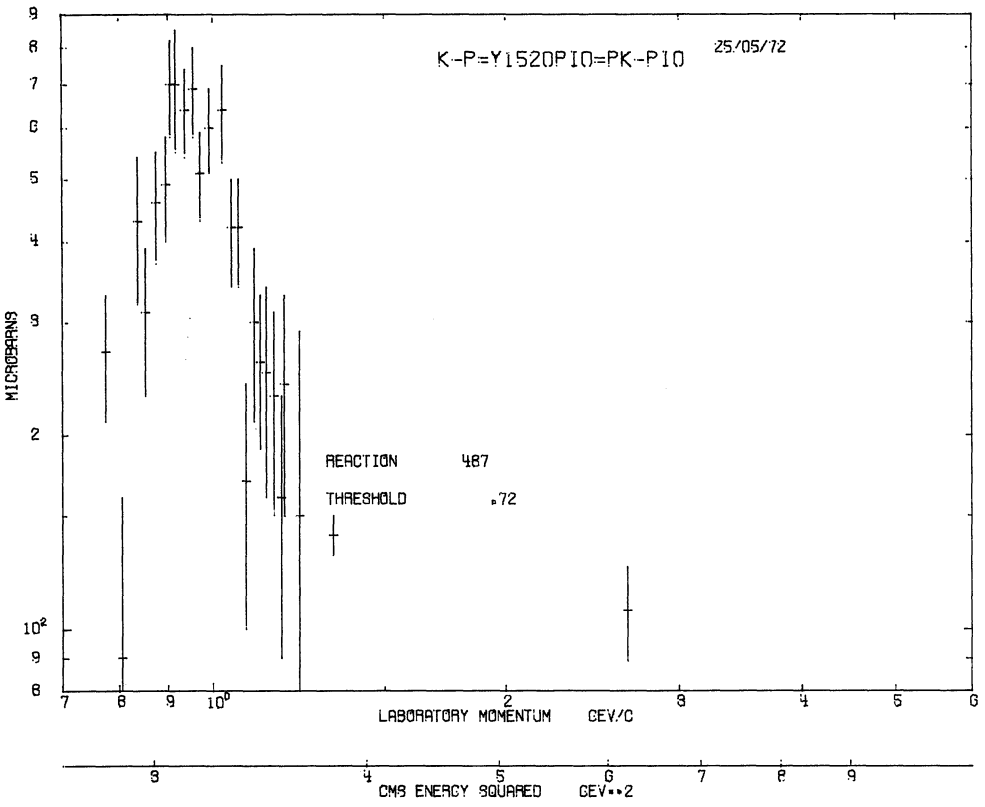

K-P=Y*+1385PI-=LPI+PI-
29/05/72
REACTION 431
THRESHOLD 1.41
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

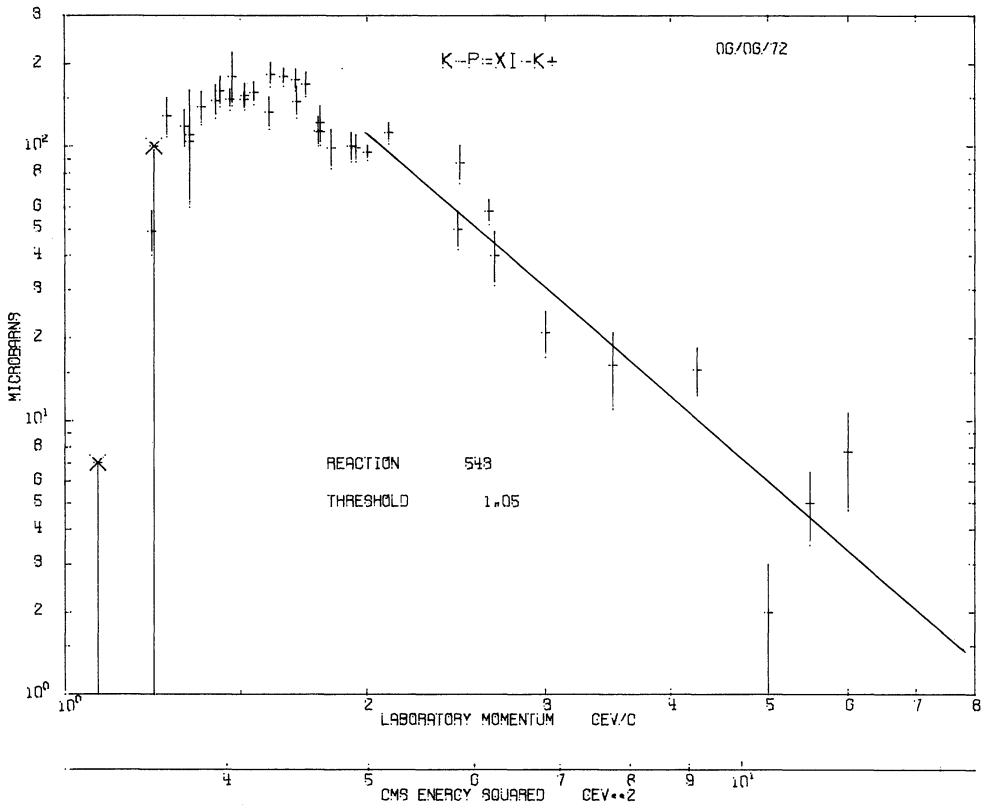

K--P=Y*+1385RH-
29/05/72
REACTION 438
THRESHOLD 1.79
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

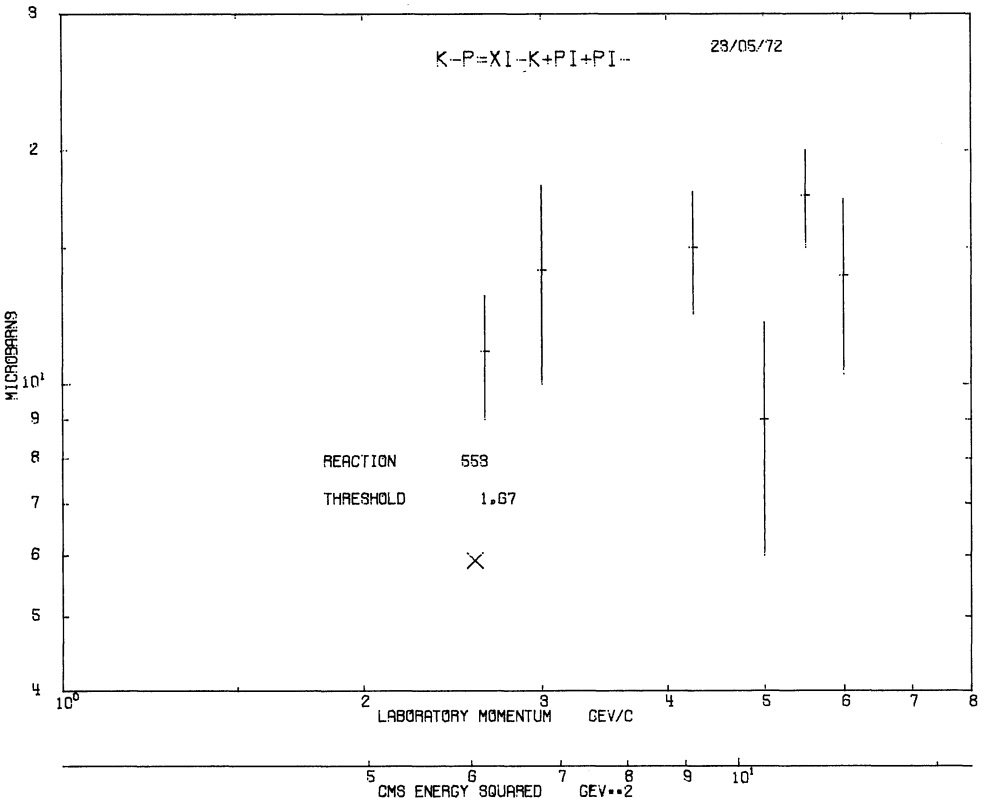

K-P:=Y*-1385PI+
06/06/72
REACTION 445
THRESHOLD .41
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

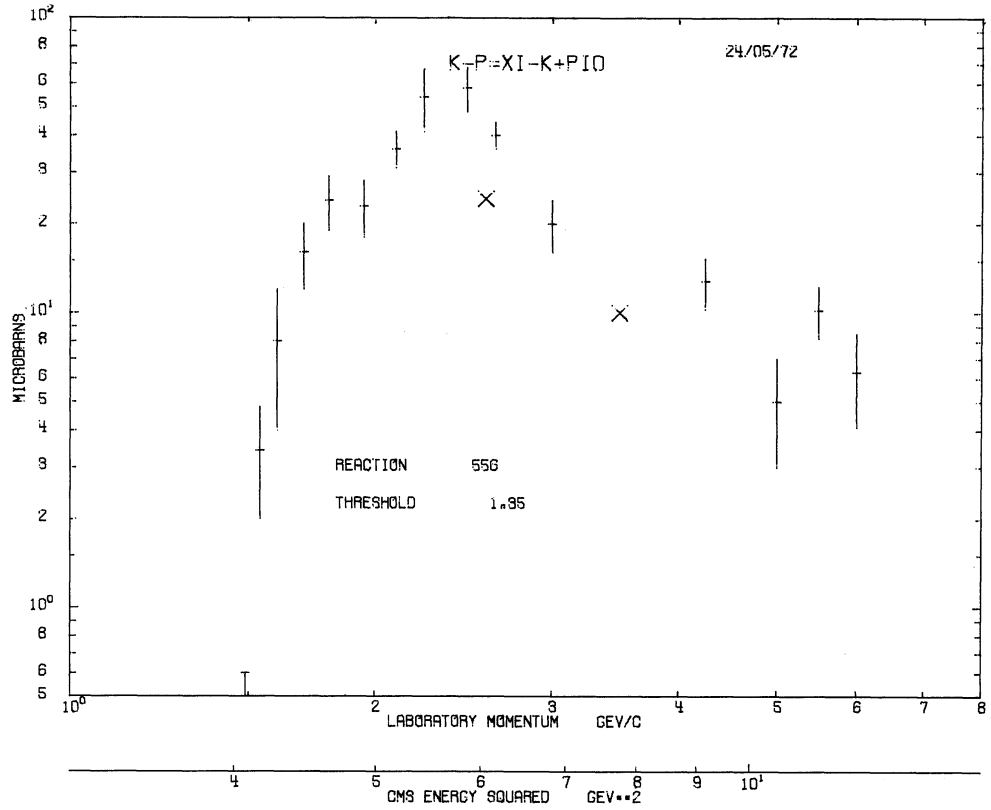

K-P:=Y1405PI0
29/05/72
REACTION 468
THRESHOLD .46
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

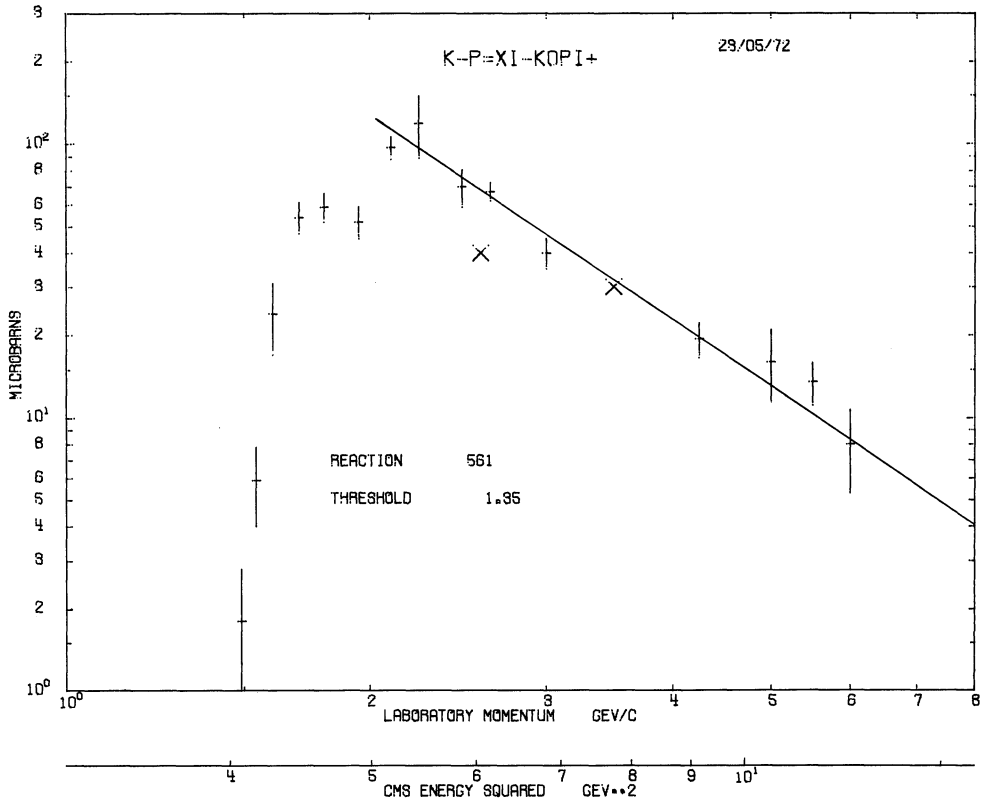

K-P=Y1520PIO
28/05/72
MICROBARNS
REACTION 486
THRESHOLD .72
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

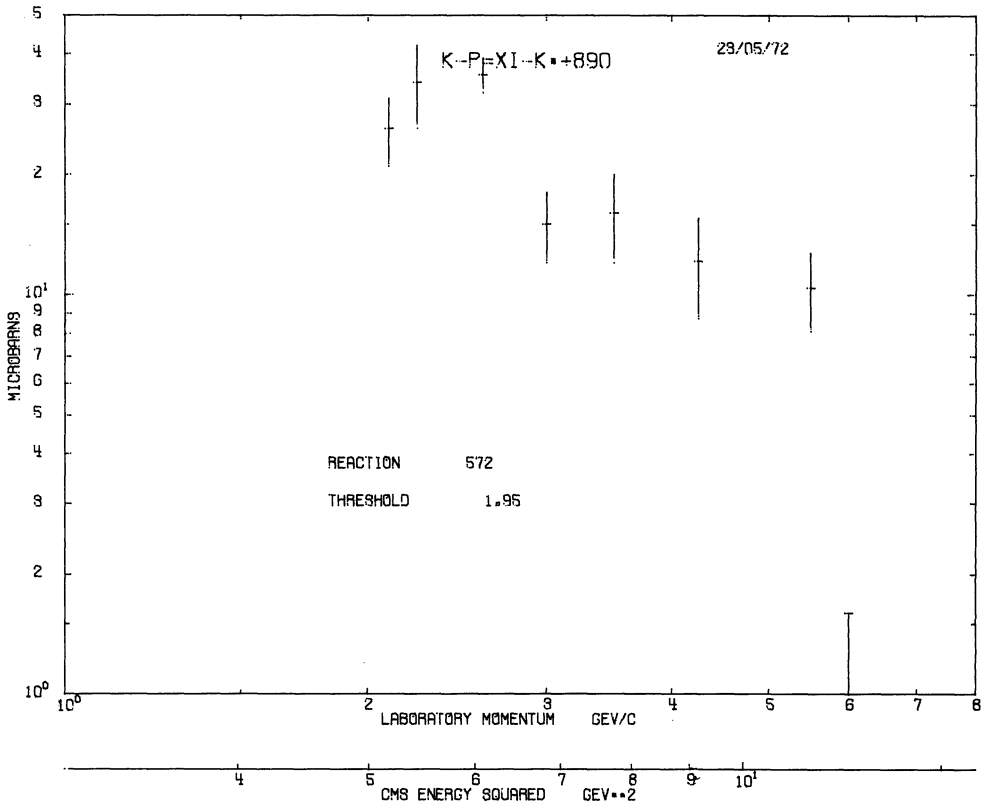

K-P=Y1520PIO=PK-PIO
25/05/72
MICROBARNS
REACTION 487
THRESHOLD .72
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

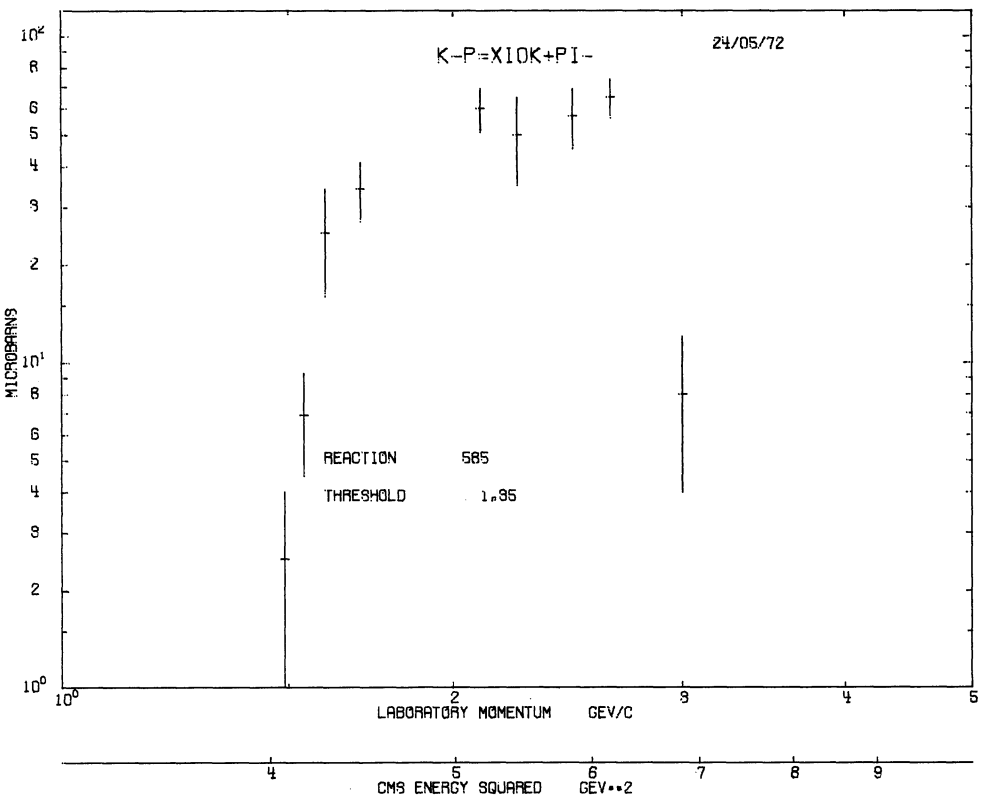

K-P=XI-K+
06/06/72
REACTION 548
THRESHOLD 1.05
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

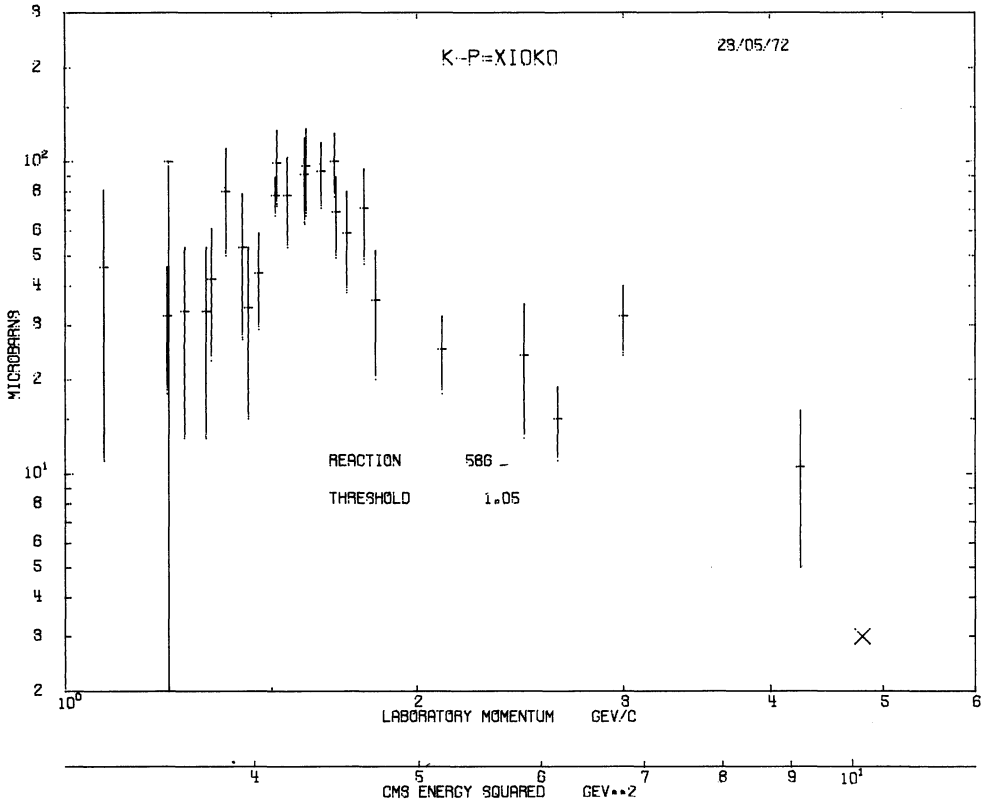

K-P=XI-K+PI+PI-
23/05/72
REACTION 558
THRESHOLD 1.67
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

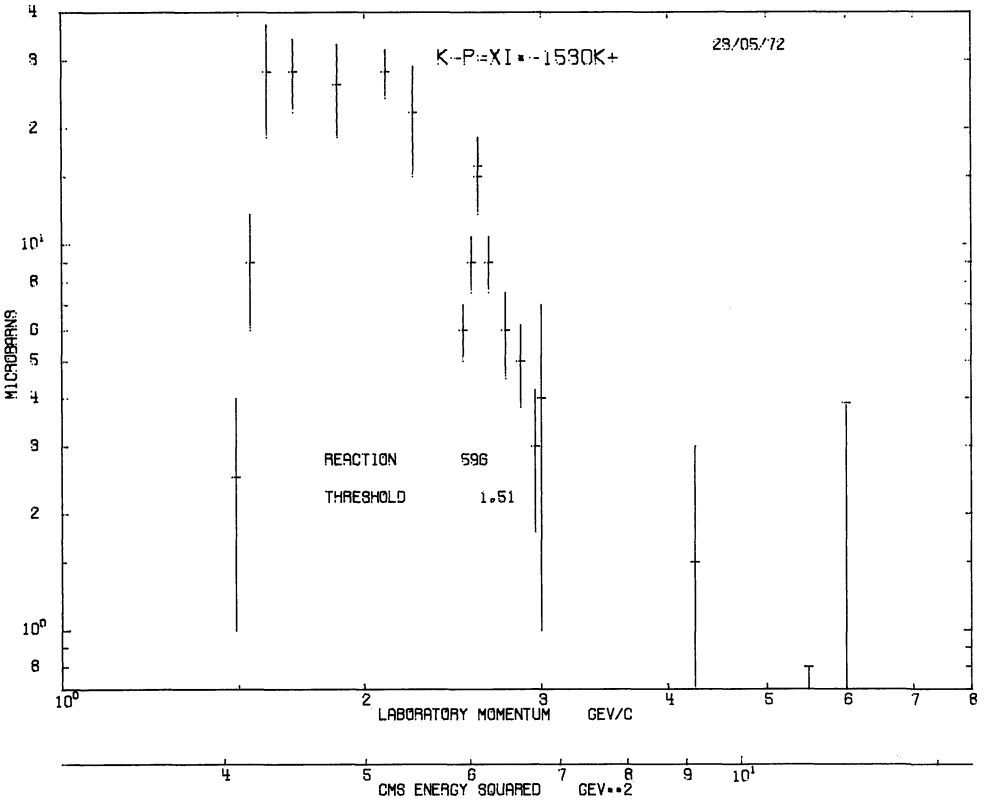

K-P=XI-K+PIO
24/05/72
MICROBARNS
REACTION 556
THRESHOLD 1.95
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

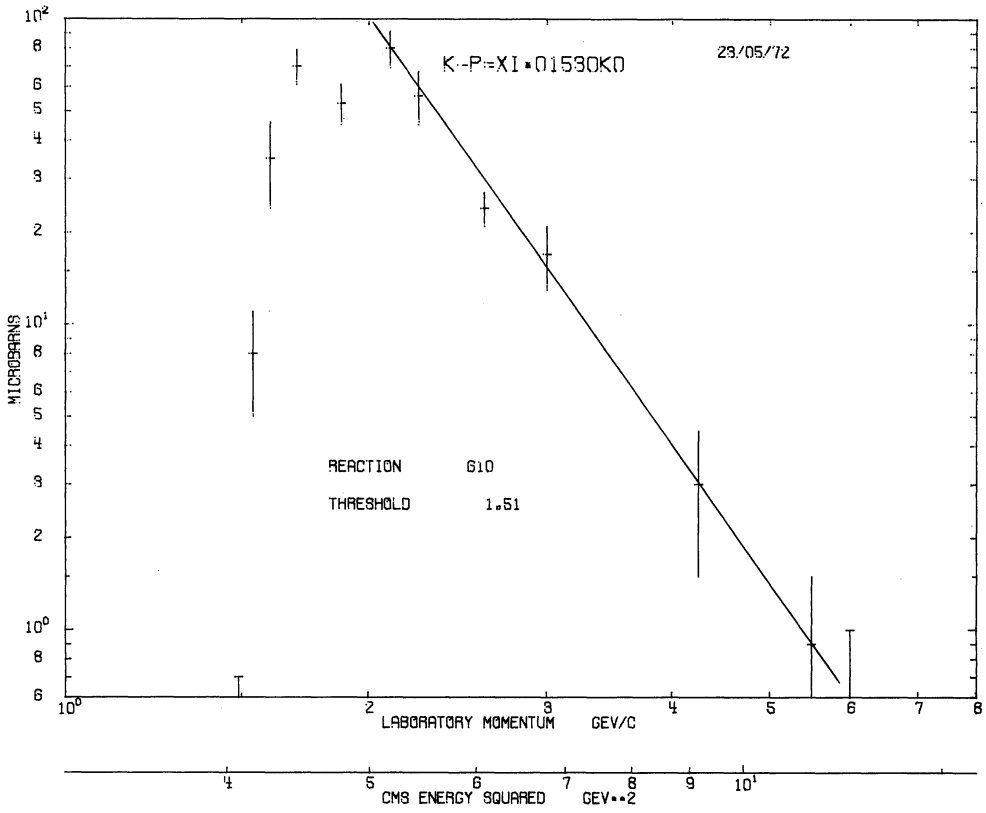

K-P=XI-KOPI+
29/05/72
MICROBARNS
REACTION 561
THRESHOLD 1.95
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

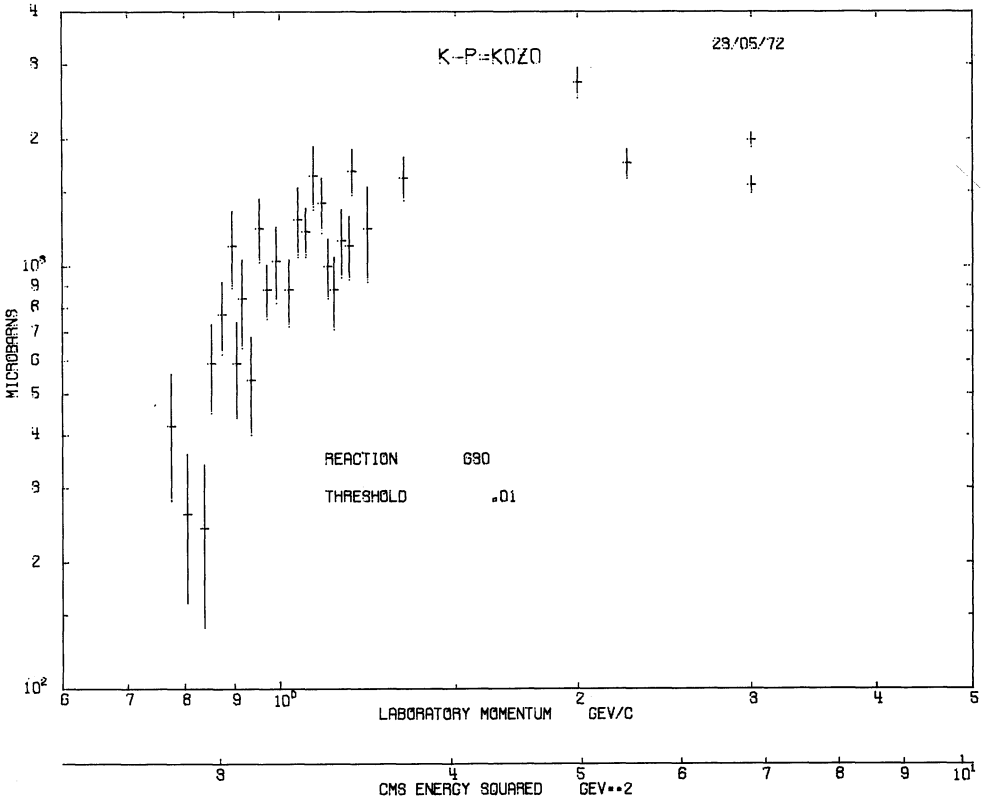

K-P=XI-K*+890
29/05/72
REACTION 572
THRESHOLD 1.95
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

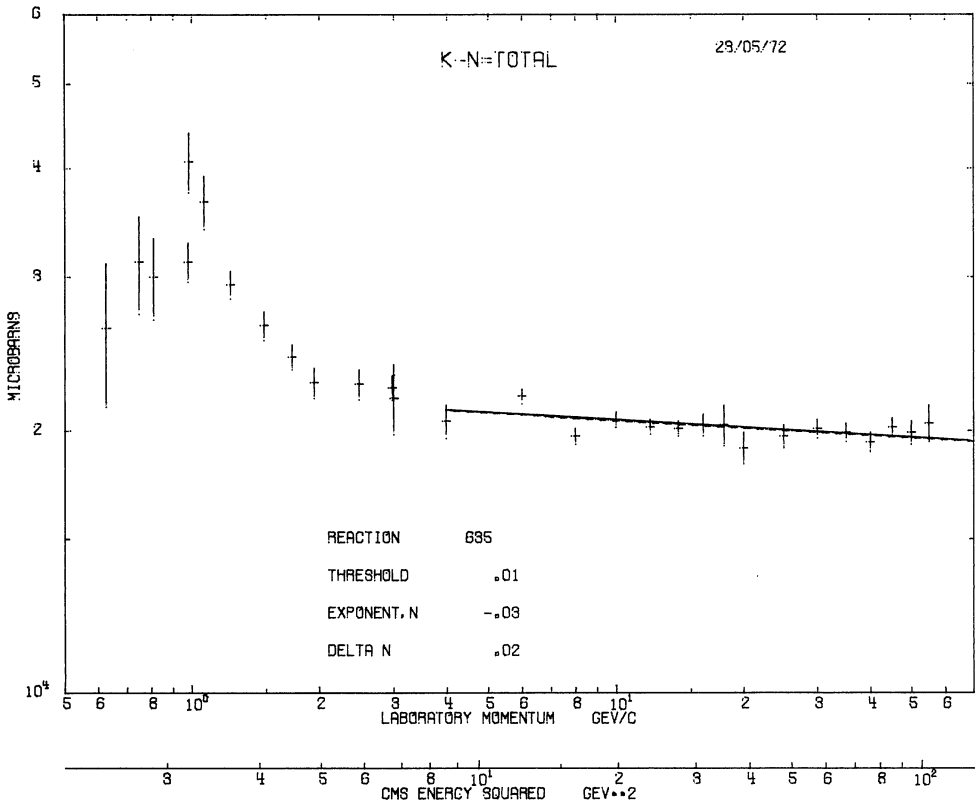

K-P=X10K+PI-
24/05/72
REACTION 585
THRESHOLD 1.95
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

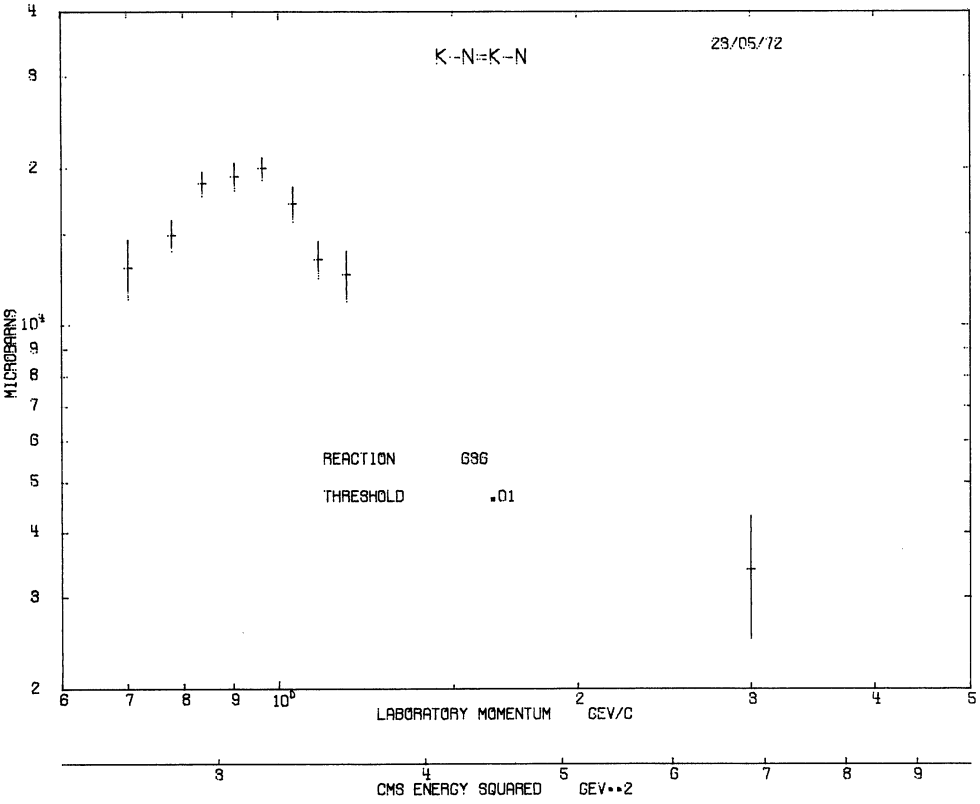

K-P=XIOKO
29/05/72
MICROBARNS
REACTION 586
THRESHOLD 1.05
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

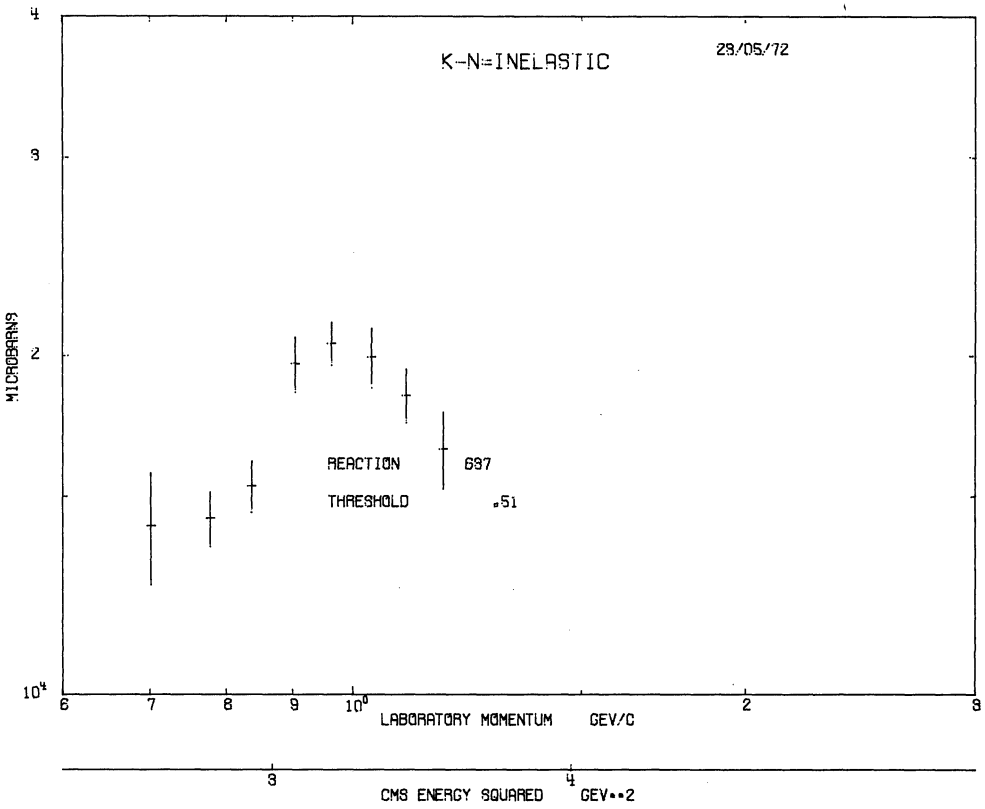

K-P=XI*-1530K+
29/05/72
MICROBARNS
REACTION 596
THRESHOLD 1.51
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

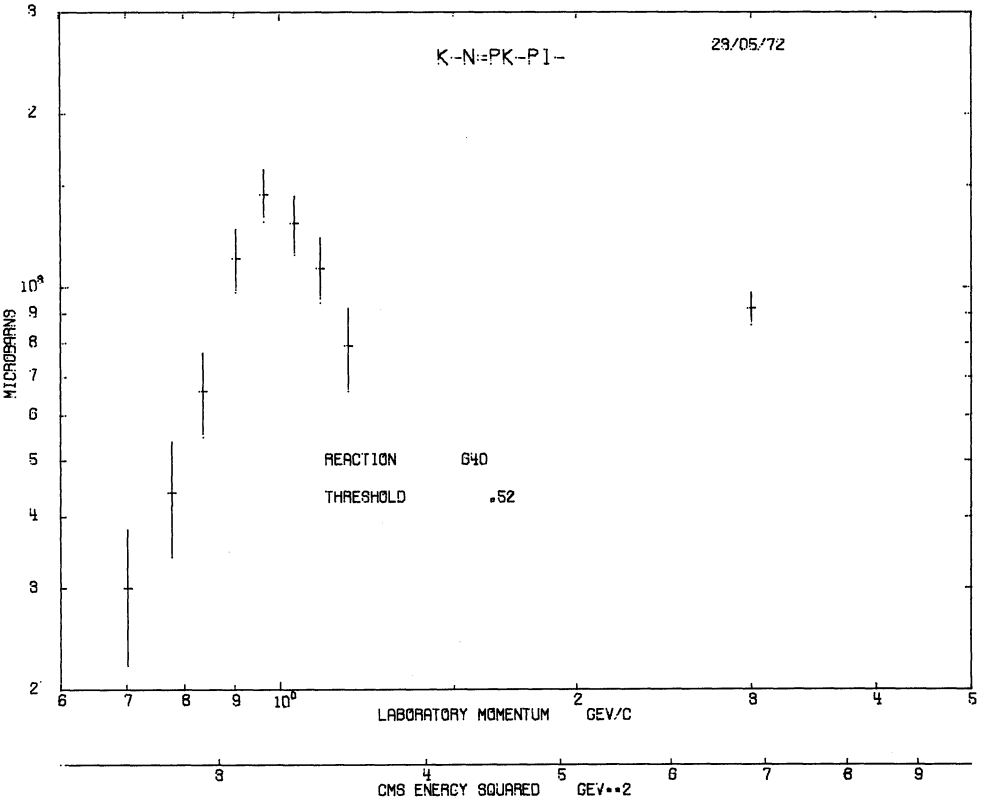

K-P:=XI•01530K0
29/05/72
REACTION G10
THRESHOLD 1•51
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV••2

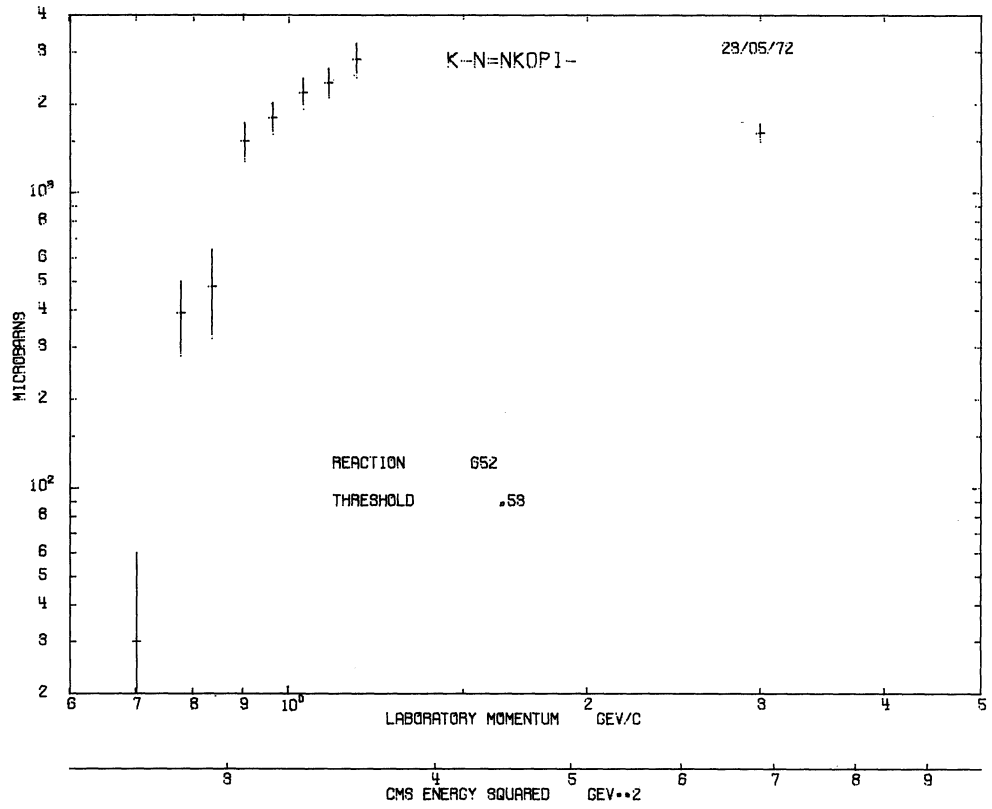

K-P:=K0Z0
29/05/72
REACTION G90
THRESHOLD •01
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV••2

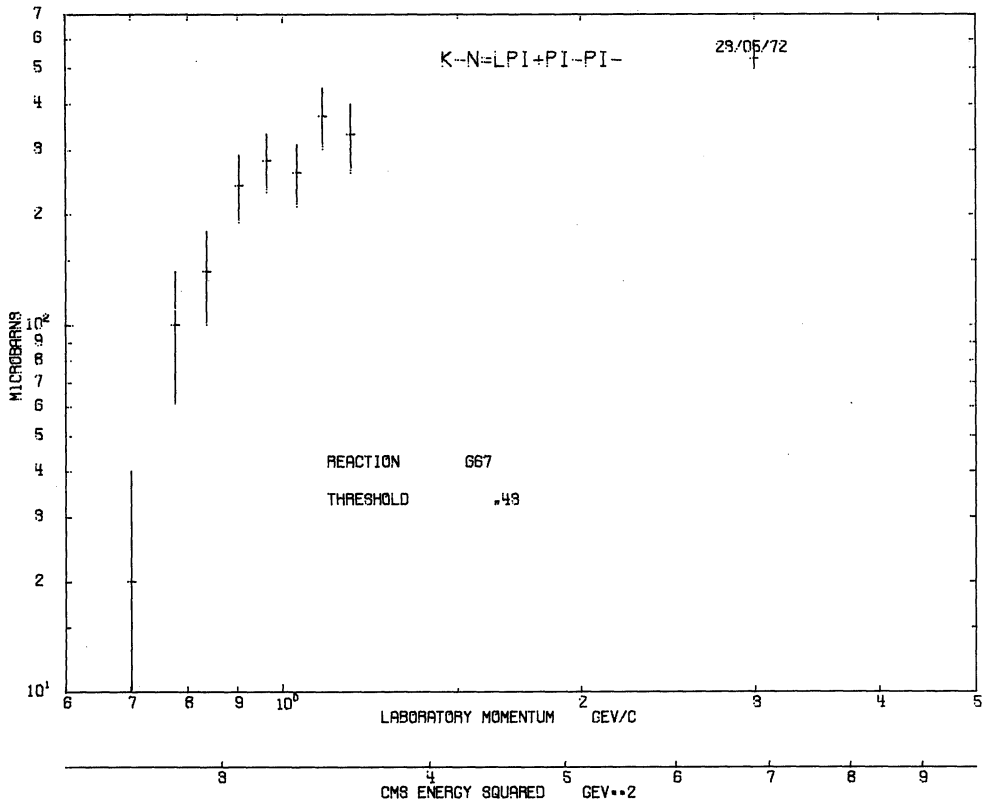

K-N=TOTAL
29/05/72
MICROBARNS
REACTION 635
THRESHOLD .01
EXPONENT, N -.03
DELTA N .02
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

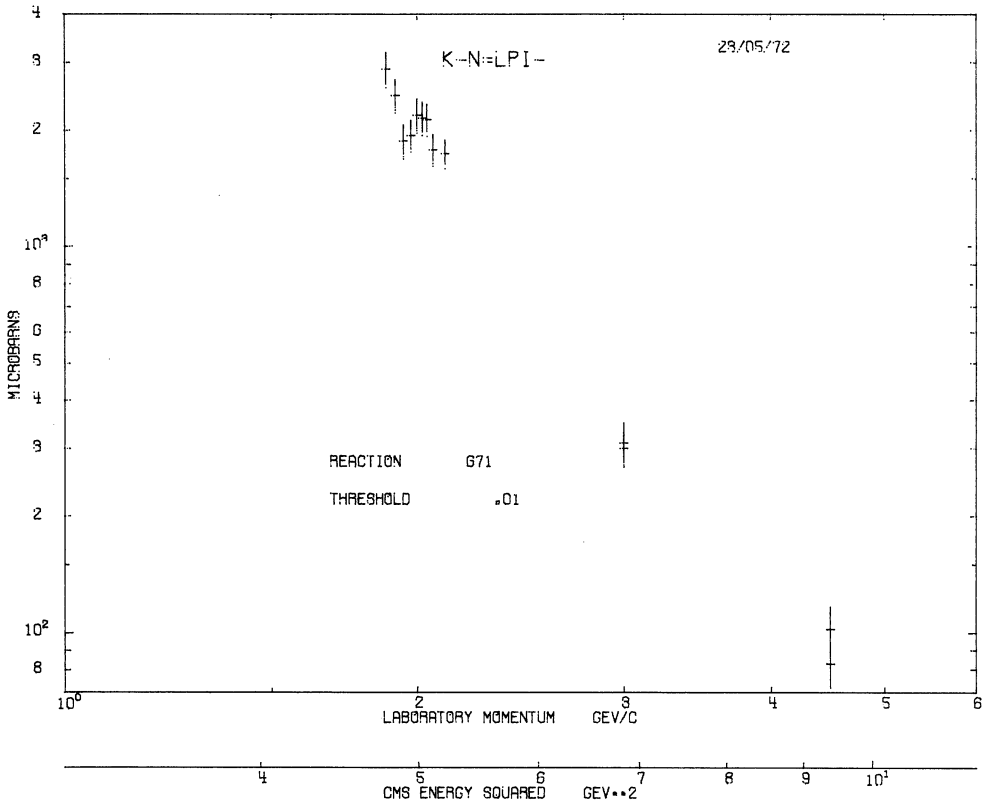

K-N=K-N
29/05/72
MICROBARNS
REACTION 636
THRESHOLD .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

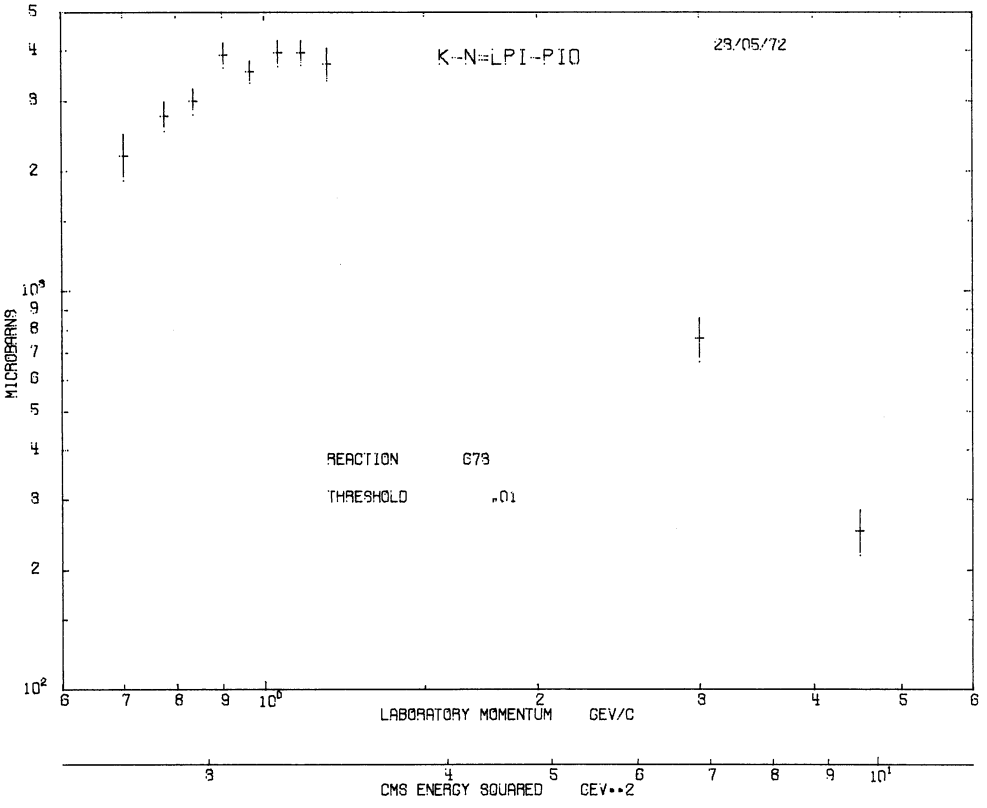

K-N=INELASTIC
29/05/72
MICROBARNS
REACTION 697
THRESHOLD .51
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

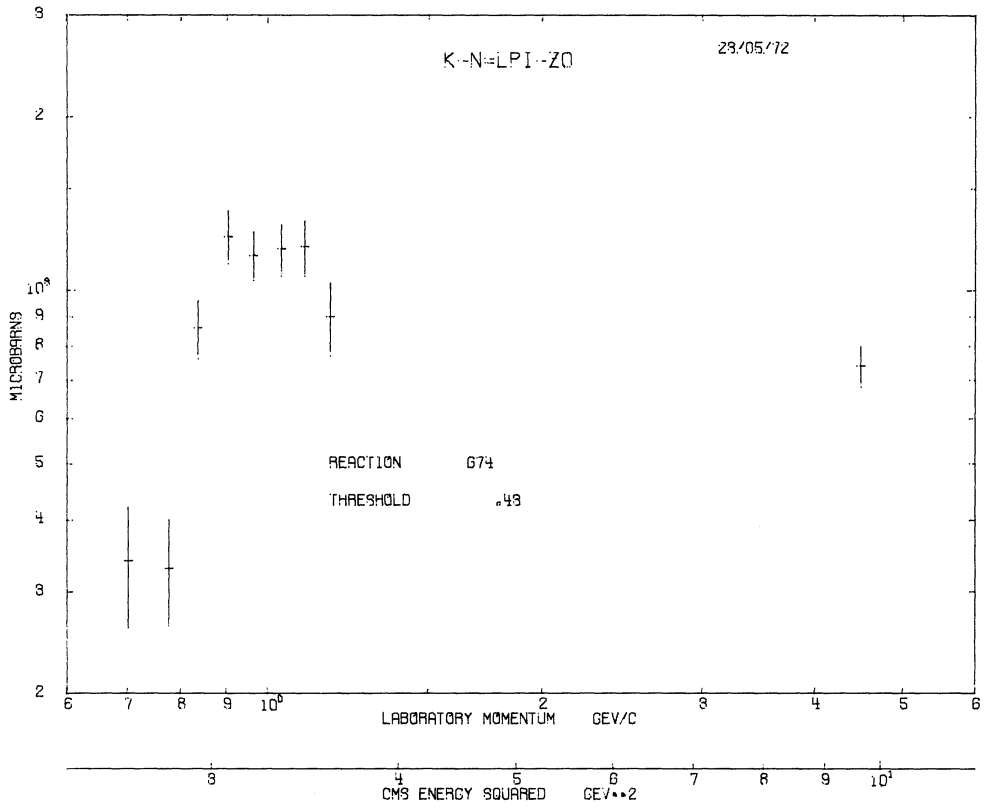

K-N=PK-P1-
29/05/72
MICROBARNS
REACTION 640
THRESHOLD .52
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

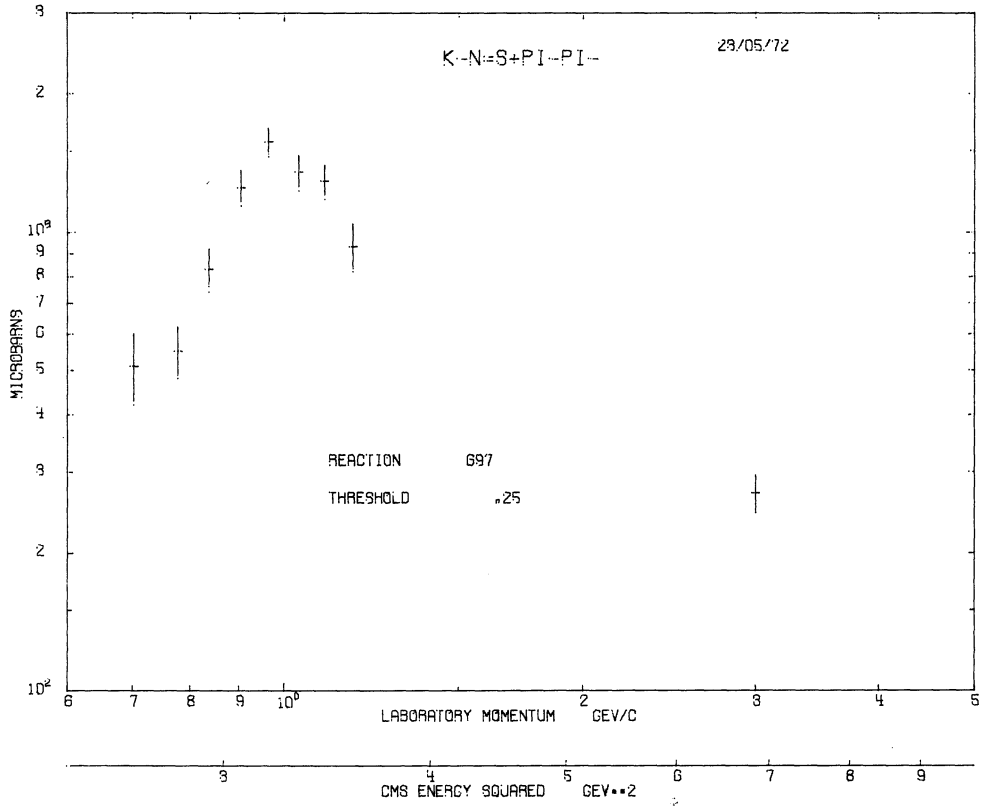

K-N=NKOPI-
29/05/72
MICROBARNS
REACTION G52
THRESHOLD .58
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

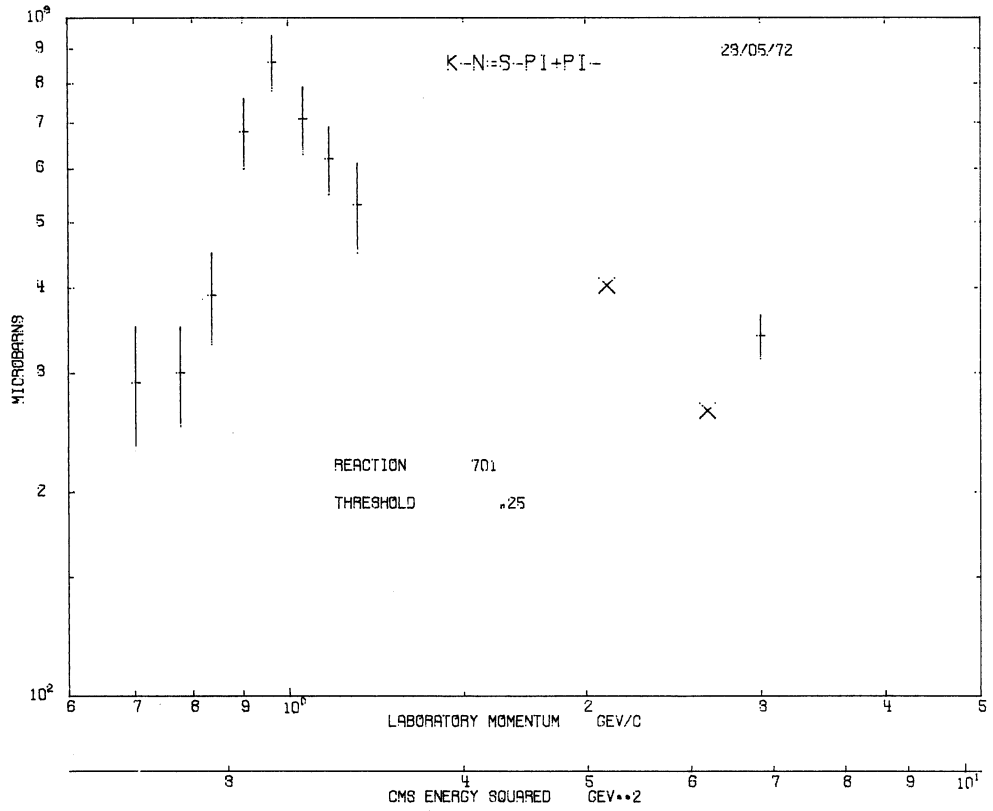

K-N=LPI+PI-PI-
29/05/72
MICROBARNS
REACTION G67
THRESHOLD .49
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

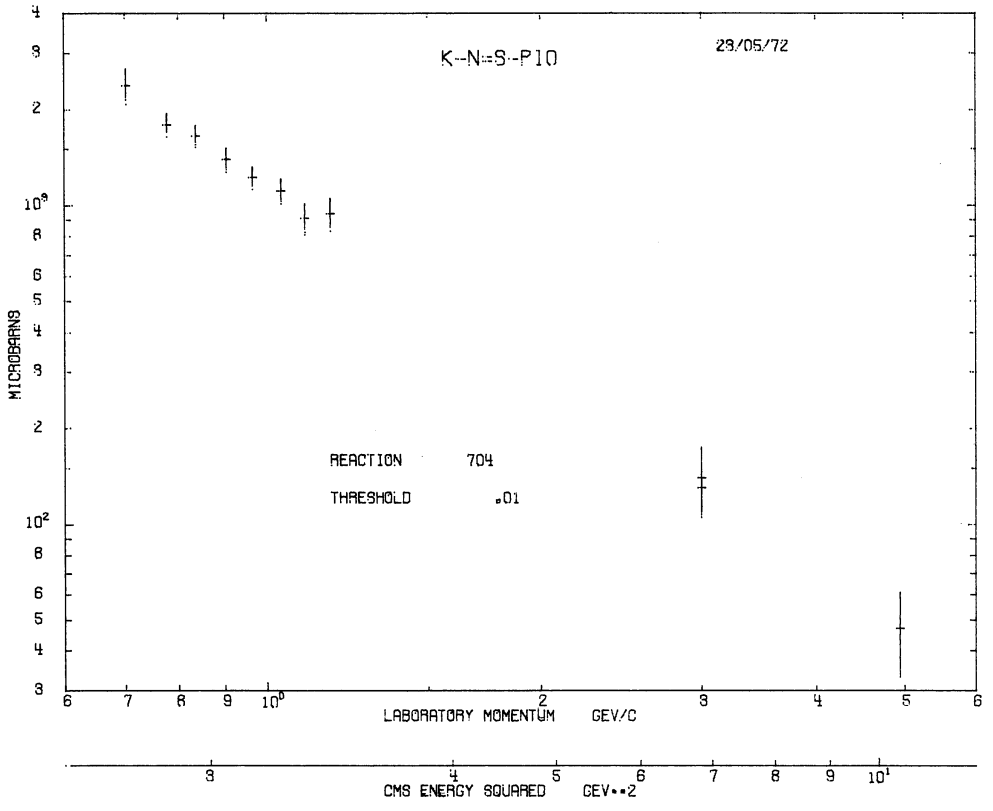

K-N=LPI-
29/05/72
REACTION G71
THRESHOLD .01
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

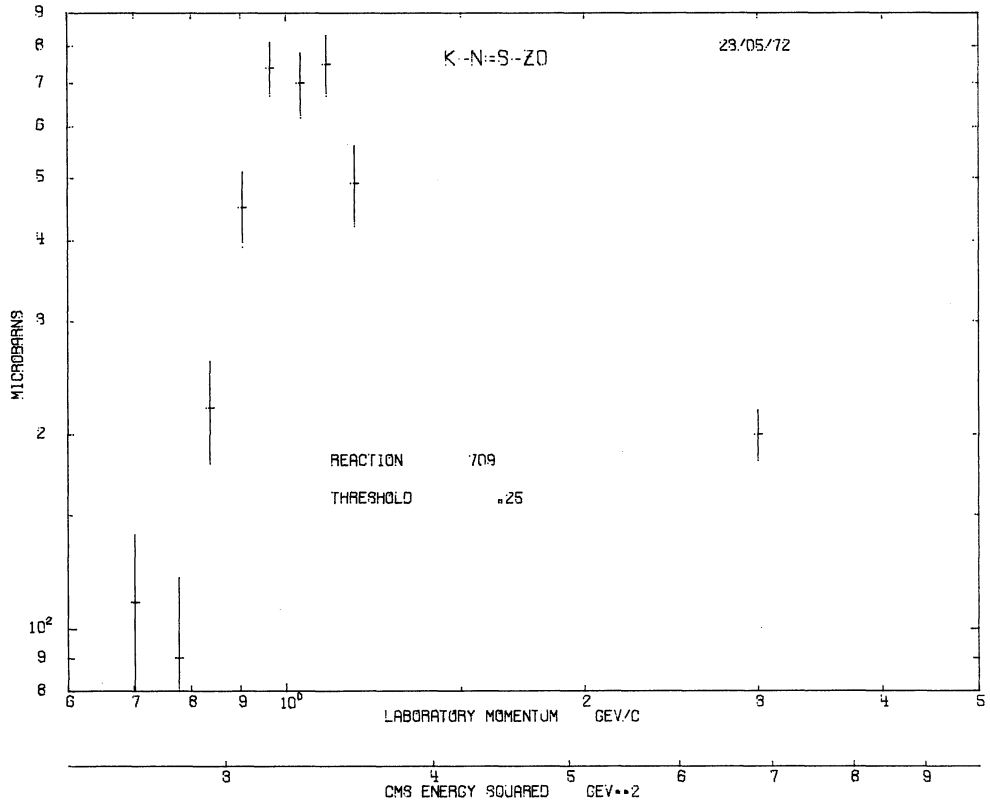

K-N=LPI-PIO
29/05/72
REACTION G73
THRESHOLD .01
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

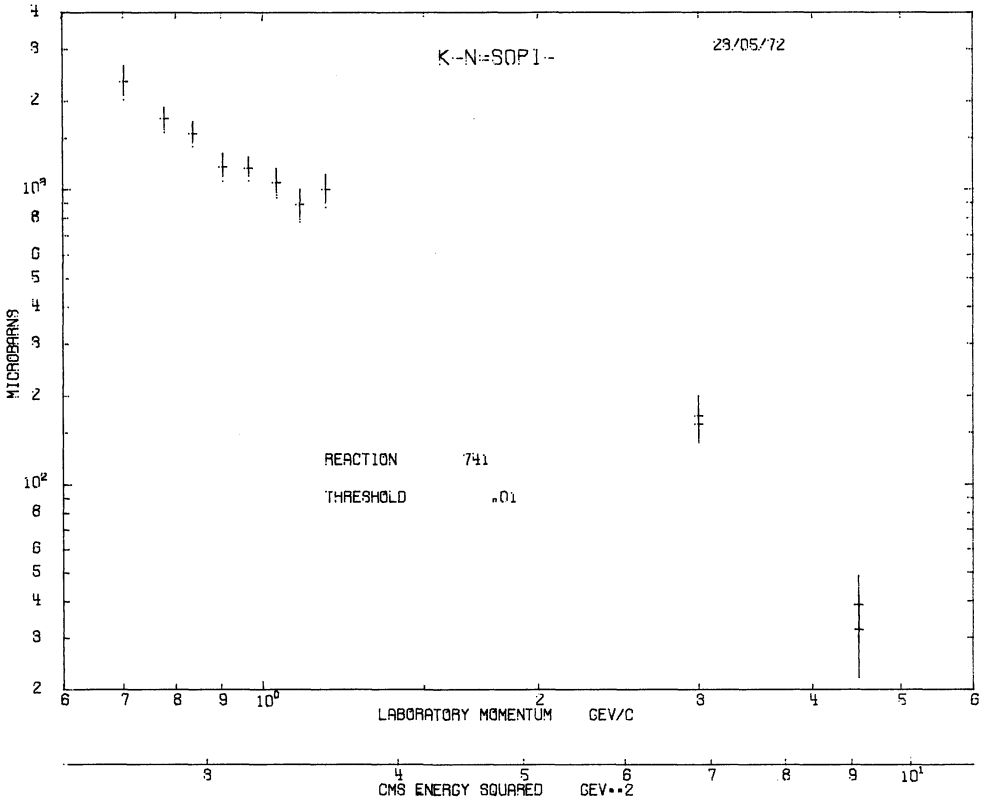

K-N=LPI-ZO
29/05/72
MICROBARNS
REACTION G74
THRESHOLD .48
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

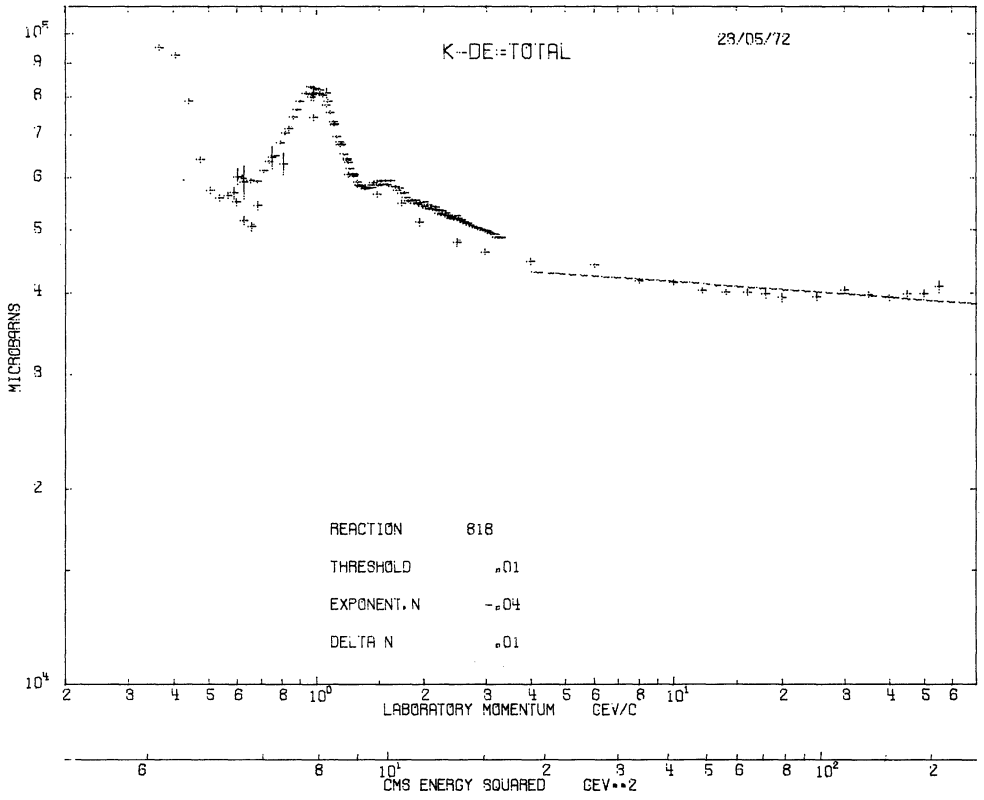

K-N=S+PI-PI-
29/05/72
MICROBARNS
REACTION G97
THRESHOLD .25
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

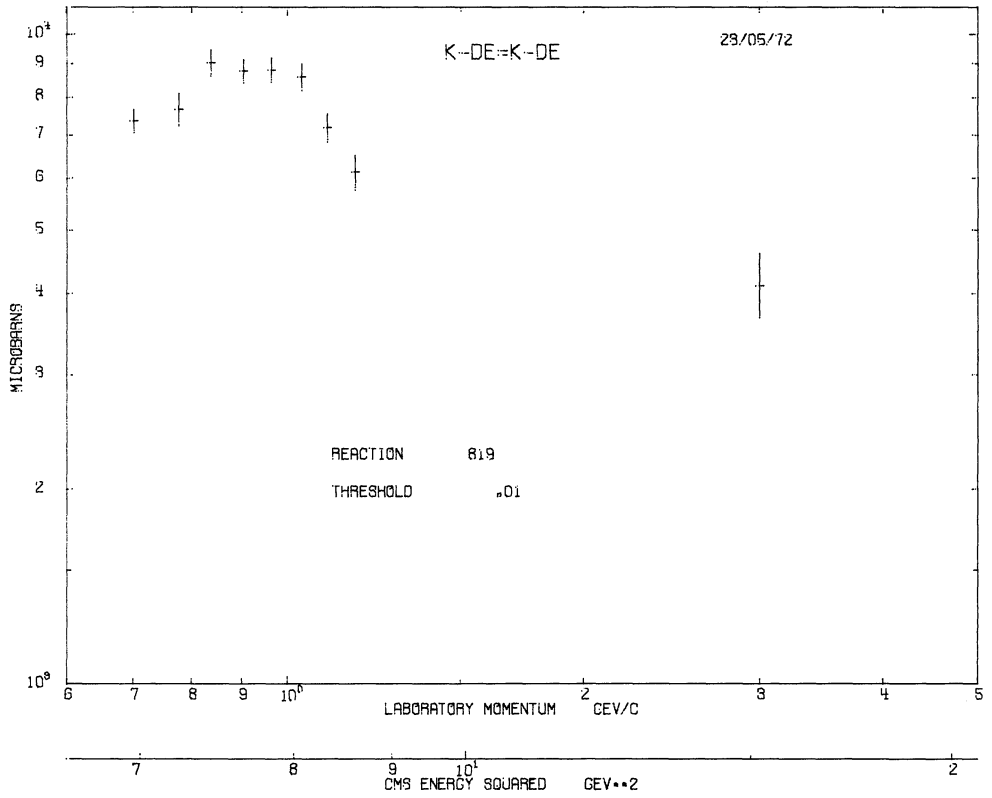

K-N=S-PI+PI-
29/05/72
MICROBARNS
REACTION 701
THRESHOLD .25
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

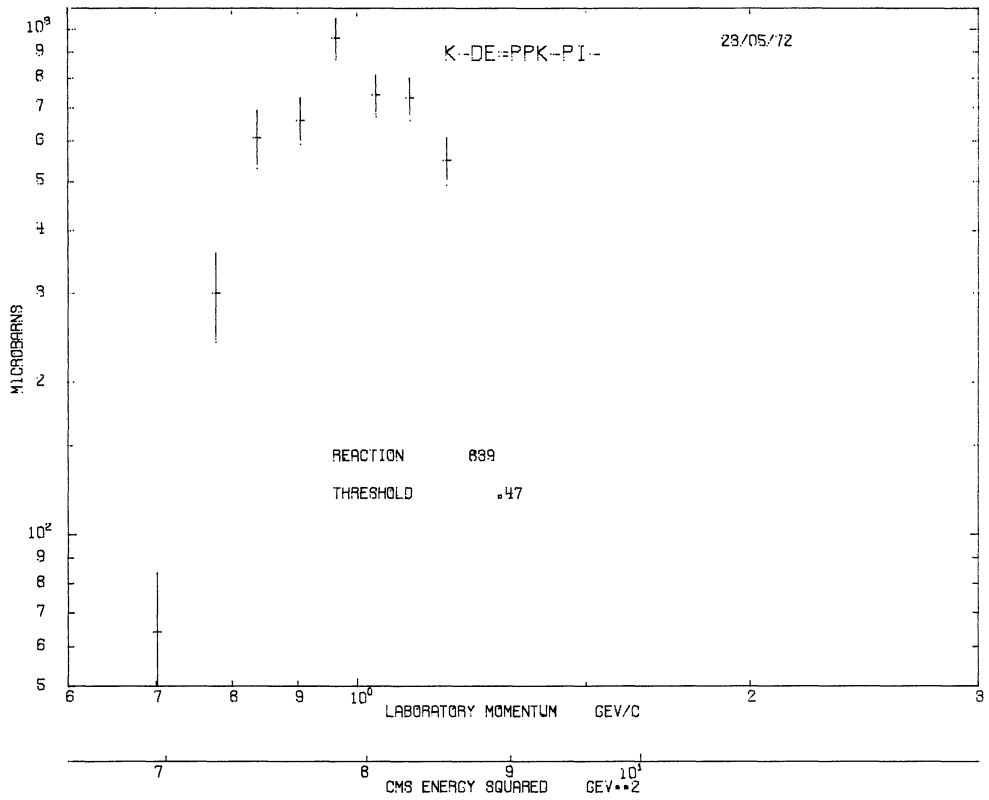

K-N=S-P10
29/05/72
MICROBARNS
REACTION 704
THRESHOLD .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

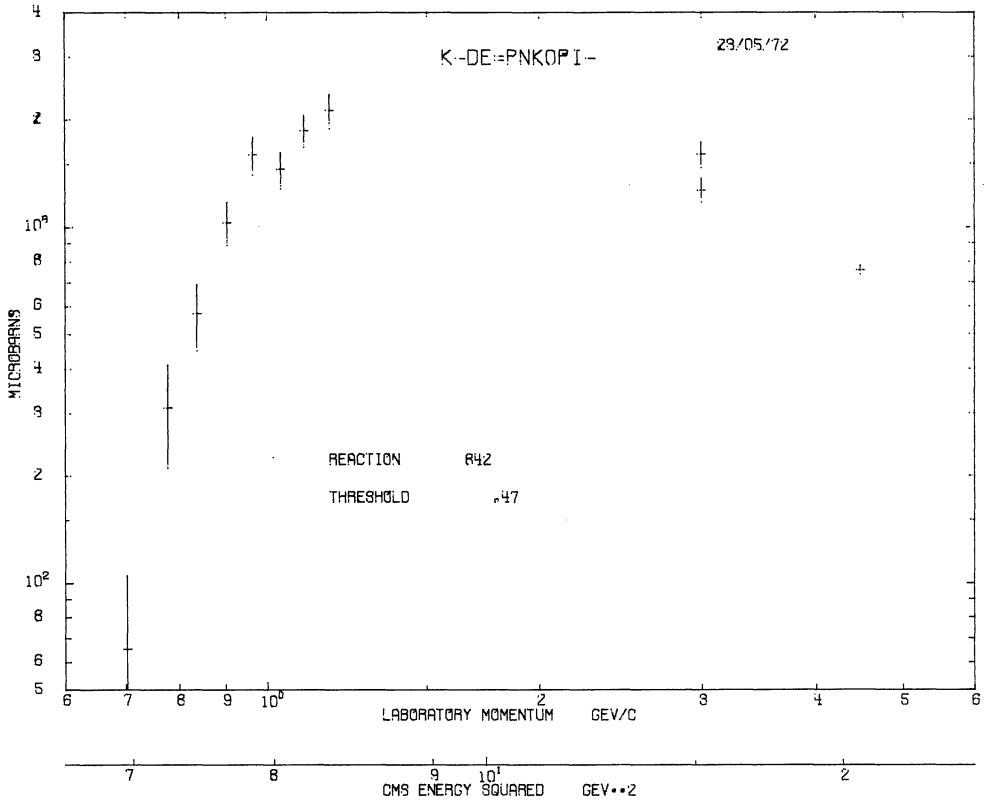

K-N=S=-Z0
29/05/72
MICROBARNS
REACTION 709
THRESHOLD .25
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

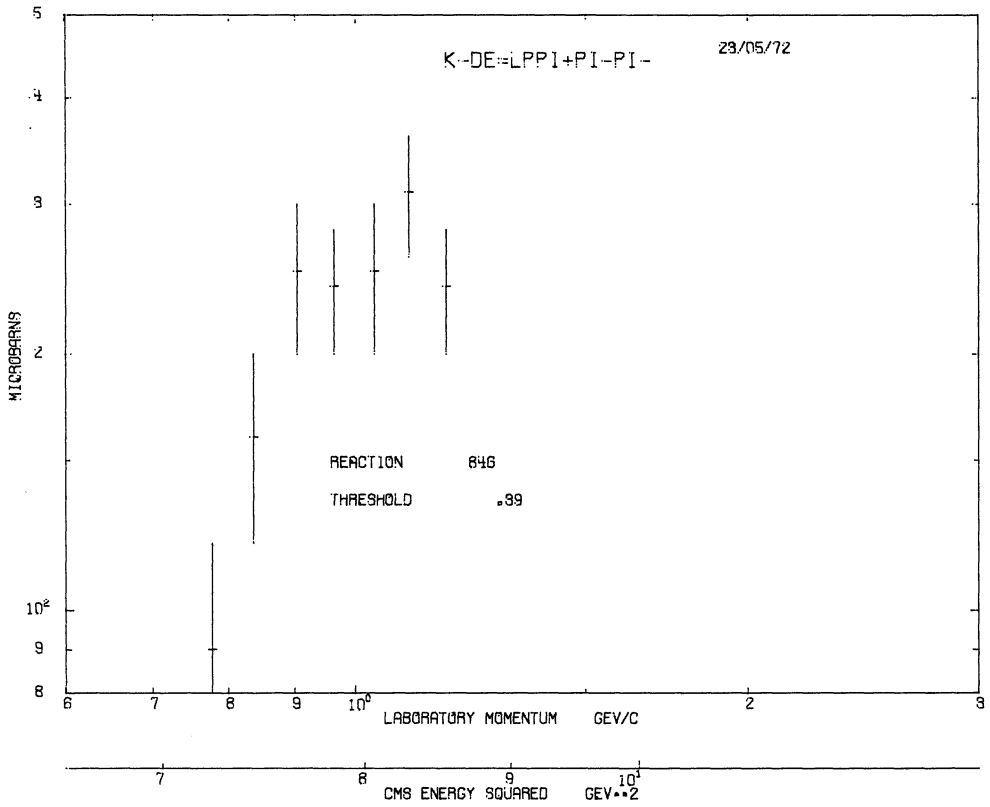

K-N=SOP1-
29/05/72
MICROBARNS
REACTION 741
THRESHOLD .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

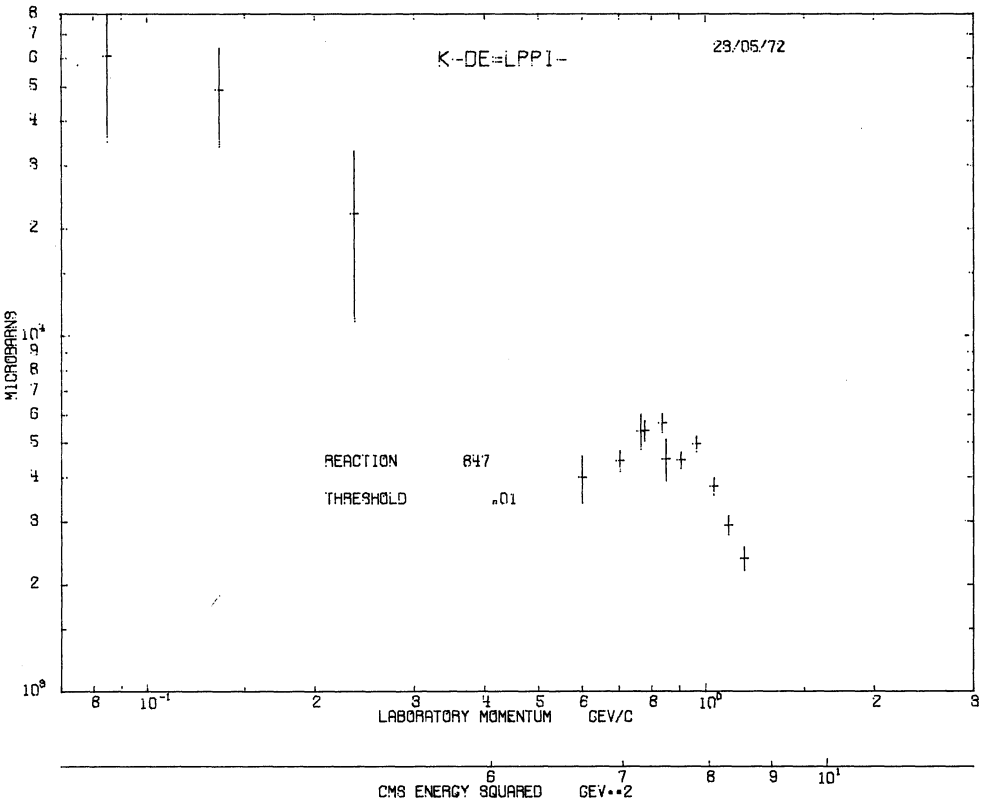

K-DE:=TOTAL
29/05/72
MICROBARNS
REACTION 818
THRESHOLD .01
EXPONENT.N -.04
DELTA N .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

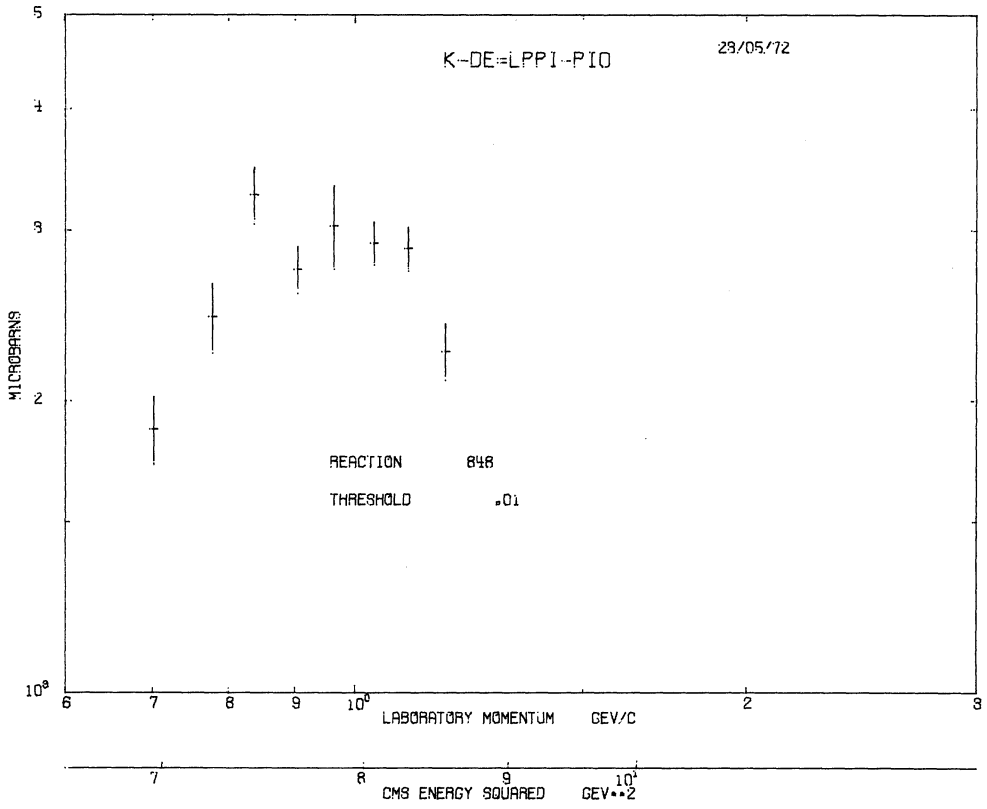

K-DE:=K-DE
29/05/72
MICROBARNS
REACTION 819
THRESHOLD .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

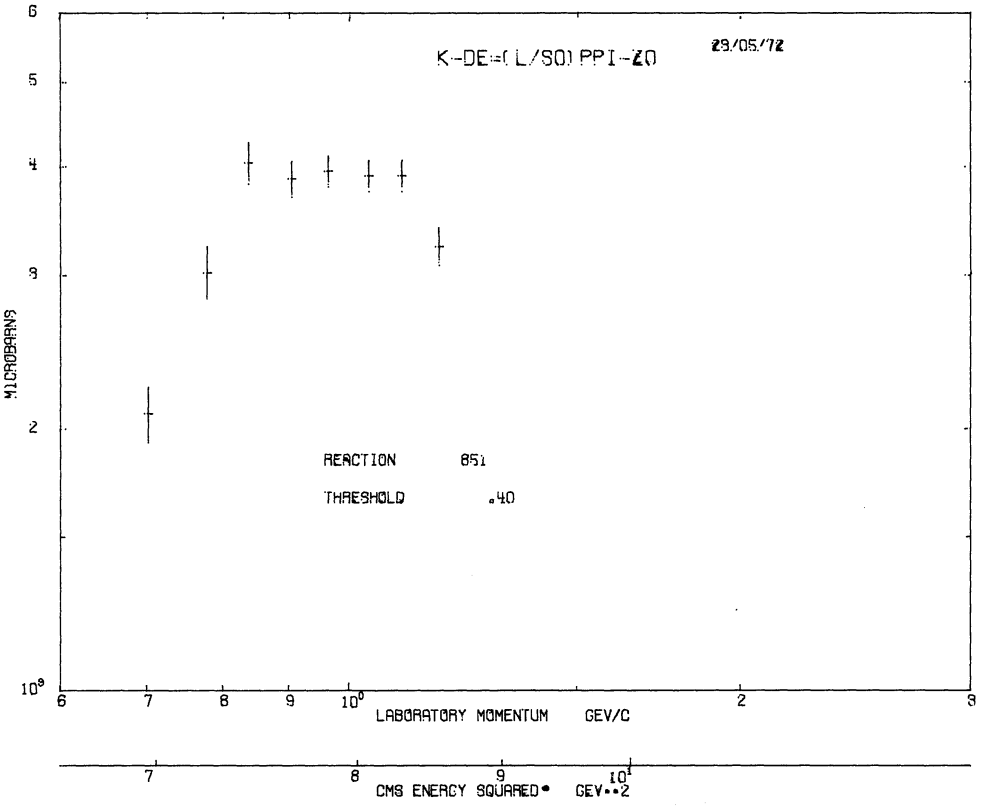

K-DE=PPK-PI-
29/05/72
MICROBARNS
REACTION 839
THRESHOLD .47
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

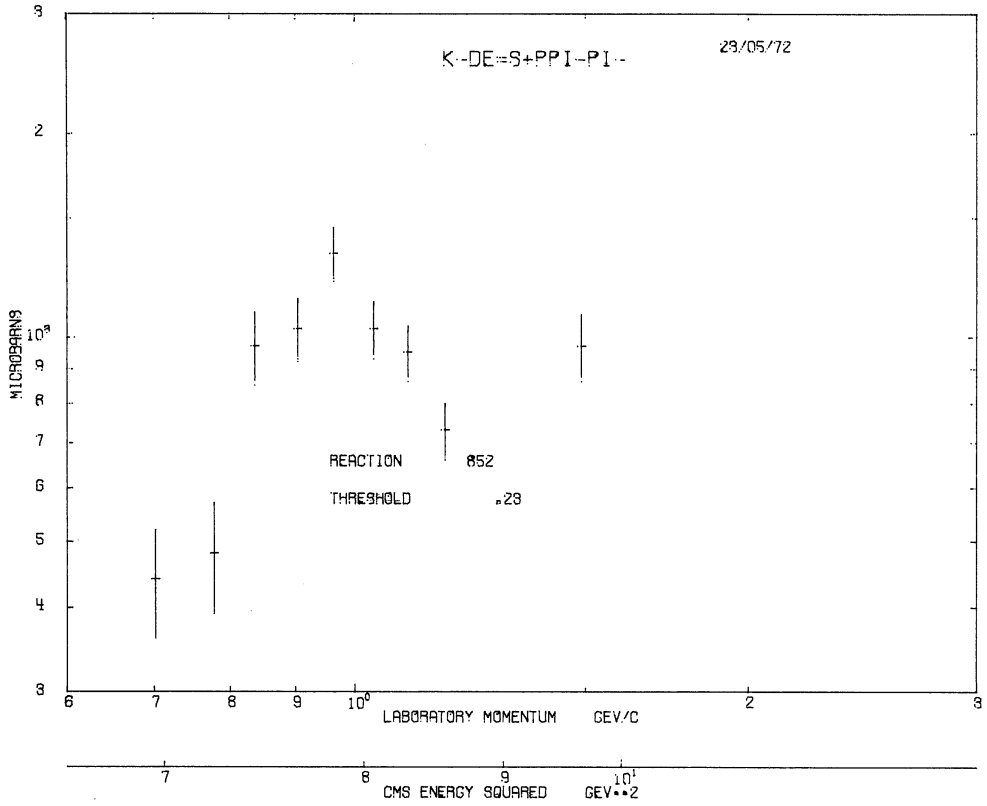

K-DE=PNKOPI-
29/05/72
MICROBARNS
REACTION 842
THRESHOLD .47
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

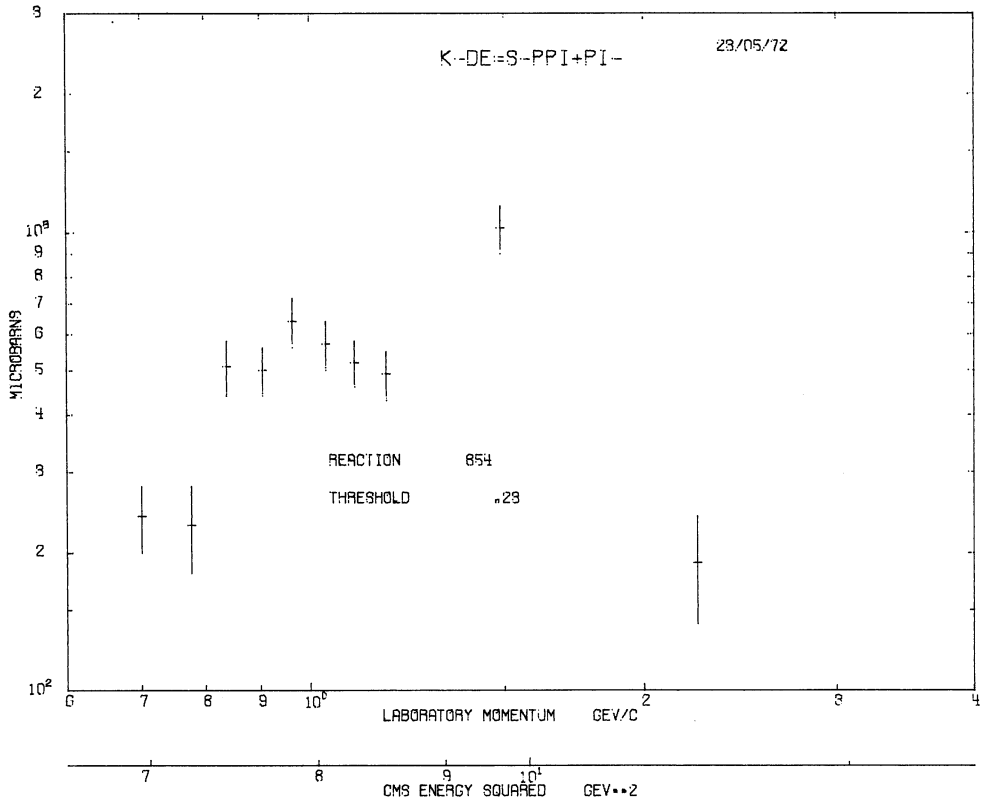

K-DE=LPPI+PI-PI-
29/05/72
MICROBARNS
REACTION 846
THRESHOLD .89
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

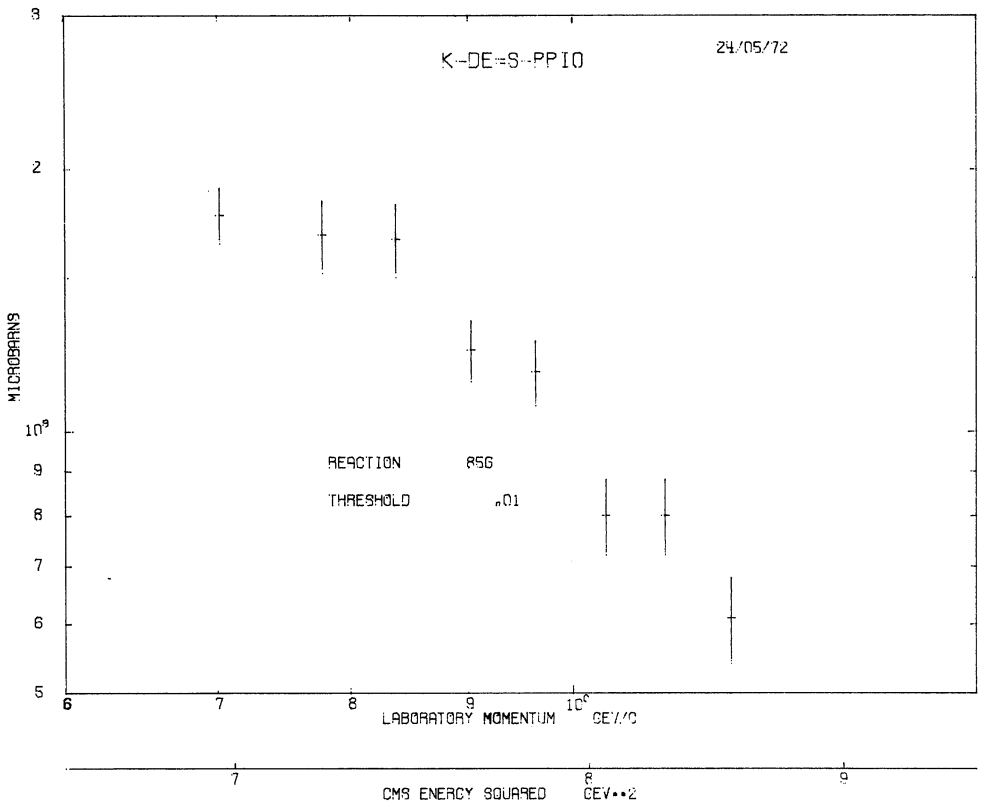

K-DE=LPPI-
29/05/72
MICROBARNS
REACTION 847
THRESHOLD .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

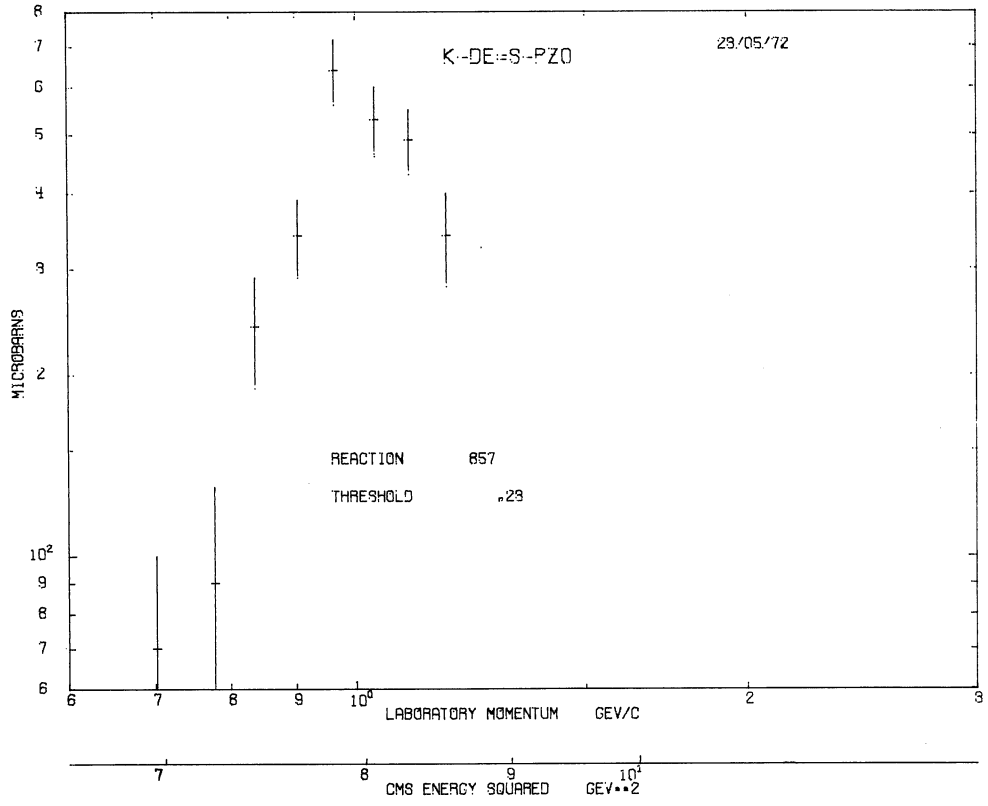

K-DE=LPPI-PIO
29/05/72
MICROBARNS
REACTION 848
THRESHOLD .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

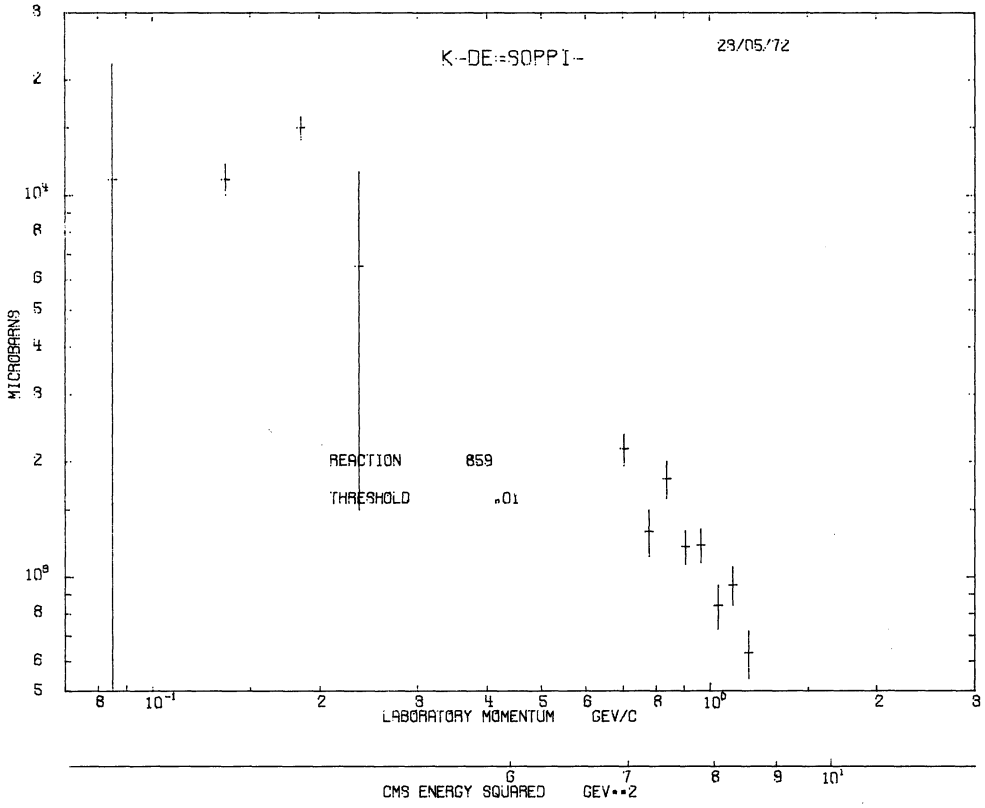

K-DE=(L/SO)PPI-ZO
29/05/72
MICROBARNS
REACTION 851
THRESHOLD .40
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2


K-DE=S+PPI-PI-
29/05/72
MICROBARNS
REACTION 852
THRESHOLD .28
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2


K-DE=S-PPI+PI-
29/05/72
MICROBARNS
REACTION 854
THRESHOLD .28
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2


K-DE=S-PP10
24/05/72
MICROBARNS
REACTION 856
THRESHOLD .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2


K-DE=S-PZ0
29/05/72
MICROBARNS
REACTION 857
THRESHOLD .29
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2


K-DE=SOPPI-
29/05/72
REACTION 859
THRESHOLD .01
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

08/05/72

TABLE 7
LIST OF REACTIONS

REACTION NUMBER		REACTION
1	----------	K+P=TOTAL
2	----------	K+P=K+P
3	----------	K+P=PK+ (BACKWARD)
4	----------	K+P=2 PRONGS
5	----------	K+P=2 PRONGS,V0
6	----------	K+P=2 PRONGS,2V0
7	----------	K+P=2 PRONGS,3V0
8	----------	K+P=2 PRONGS,L
9	----------	K+P=2 PRONGS,LK0
10	----------	K+P=2 PRONGS,L2K0
11	----------	K+P=2 PRONGS,K0
12	----------	K+P=2 PRONGS,AL
13	----------	K+P=4 PRONGS
14	----------	K+P=4 PRONGS,V0
15	----------	K+P=4 PRONGS,2V0
16	----------	K+P=4 PRONGS,L
17	----------	K+P=4 PRONGS,LK0
18	----------	K+P=4 PRONGS,K0
19	----------	K+P=4 PRONGS,AL
20	----------	K+P=6 PRONGS
21	----------	K+P=6 PRONGS,V0
22	----------	K+P=6 PRONGS,2V0
23	----------	K+P=6 PRONGS,K0
24	----------	K+P=8 PRONGS
25	----------	K+P=8 PRONGS,K0
26	----------	K+P=2V0
27	----------	K+P=INELASTIC
28	----------	K+P=PION PRODUCTION
29	----------	K+P=STRANGE PARTICLES
30	----------	K+P=Z++1900PI0=PK+PI0
31	----------	K+P=PPPI+PI-PI0AL
32	----------	K+P=PPPI+PI-AL
33	----------	K+P=PPPI+PI0AS-
34	----------	K+P=PPPI+AS-
35	----------	K+P=PPPI-PI0AS+
36	----------	K+P=PPPI-AS+
37	----------	K+P=PPPI0AL
38	----------	K+P=PPK+AP
39	----------	K+P=(P/N)(P/N)K-AXI+
40	----------	K+P=(P/N)KPI
41	----------	K+P=(P/N)KPI (NON RESON.)
42	----------	K+P=(P/NPI+)K+Z0
43	----------	K+P=(P/NPI+)K+PI+PI-Z0
44	----------	K+P=(PPI0/NPI+)K+PI+PI-Z0
45	----------	K+P=PPAL
46	----------	K+P=PPALZ0
47	----------	K+P=PP(AL/AS0)
48	----------	K+P=PPAS0
49	----------	K+P=PNPI+PI+AS-
50	----------	K+P=PNPI+PI-AS+
51	----------	K+P=PNPI+AL
52	----------	K+P=PNPI+ALZ0
53	----------	K+P=PNAS+
54	----------	K+P=PK+PI+PI+PI-PI-
55	----------	K+P=PK+PI+PI+PI-PI-(NON RES.)
56	----------	K+P=PK+PI+PI+PI-PI-PI0
57	----------	K+P=PK+PI+PI+PI-PI-Z0
58	----------	K+P=PK+PI+PI+PI-PI-PI0 NON RES
59	----------	K+P=PK+PI+PI-
60	----------	K+P=PK+PI+PI- (NON RESONANT)
61	----------	K+P=PK+PI+PI-GAM
62	----------	K+P=PK+PI+PI-PI0
63	----------	K+P=PK+PI+PI-PI0(NON RESONANT)
64	----------	K+P=PK+PI0
65	----------	K+P=PK+PI0 (NON RESONANT)
66	----------	K+P=PK+K+K-
67	----------	K+P=PK+K+K-PI0
68	----------	K+P=PK+K+K-Z0
69	----------	K+P=PK+K+K0PI-PI0
70	----------	K+P=PK+K-K0PI+
71	----------	K+P=PK+K-K0PI+PI0
72	----------	K+P=PK+K0K0
73	----------	K+P=(P/N)K0MPI
74	----------	K+P=PK0PI+
75	----------	K+P=PK0PI+ (NON RESONANT)
76	----------	K+P=PK0PI+PI+PI+PI-PI-
77	----------	K+P=PK0PI+PI+PI+PI-PI-PI0
78	----------	K+P=PK0PI+PI+PI-
79	----------	K+P=PK0PI+PI+PI-(NON RESONANT)
80	----------	K+P=PK0PI+PI+PI-GAM
81	----------	K+P=PK0PI+PI+PI-PI0
82	----------	K+P=PK0PI+PI+PI-PI0 (NON RES.)
83	----------	K+P=PK0PI+PI+PI-Z0
84	----------	K+P=PK0PI+PI0
85	----------	K+P=PK0PI+PI0 (NON RESONANT)
86	----------	K+P=PK0PI+Z0
87	----------	K+P=PK03PI+2PI-Z0
88	----------	K+P=PETK+
89	----------	K+P=PETK+PI+PI-
90	----------	K+P=PETK0PI+
91	----------	K+P=PETK0PI+=PK0PI+Z0
92	----------	K+P=PETK0PI+=PK0PI+PI+PI-PI0
93	----------	K+P=PRHOK0PI+
94	----------	K+P=PRHOK0PI+PI0
95	----------	K+P=POMK+
96	----------	K+P=POMK+=PK+PI+PI-PI0
97	----------	K+P=POMK+PI+PI-=PK+2PI+2PI-PI0
98	----------	K+P=POMK0PI+
99	----------	K+P=POMK0PI+=PK0PI+Z0
100	----------	K+P=POMK0PI+=PK0PI+PI+PI-PI0
101	----------	K+P=PK*+890
102	----------	K+P=PK*+890=PK+PI0
103	----------	K+P=PK*+890=PK0PI+
104	----------	K+P=PK*+890PI+PI-
105	----------	K+P=PK*+890PI+PI-=PK+PI+PI-PI0
106	----------	K+P=PK*+890PI+PI-=PK0PI+PI+PI-
107	----------	K+P=PK*+890PI+PI- (NON N*)
108	----------	K+P=PK*+890PI+PI-PI0

```
112  ----------  K+P=PK*+890PI0=PK0PI+PI0
113  ----------  K+P=PK*0890PI+
114  ----------  K+P=PK*0890PI+=PK+PI+PI-
115  ----------  K+P=PK*0890PI+=PK0PI+PI0
116  ----------  K+P=PK*0890PI+PI+PI-
117  ----------  K+P=PK*02PI+PI-(K*0=K+PI-)
118  ----------  K+P=PK*02PI+PI-PI0(K*0=K+PI-)
119  ----------  K+P=PK*0890PI+PI0
120  ----------  K+P=(P/N)K*
121  ----------  K+P=PPHIK+
122  ----------  K+P=PPHIK+=PK+K+K-
123  ----------  K+P=PA1+K0=PK0PI+PI+PI-
124  ----------  K+P=PA10K+=PK+PI+PI-PI0
125  ----------  K+P=PK*+1270=P(KPIPI)+
126  ----------  K+P=PK*+1320
127  ----------  K+P=PK*+1320=PK+PI+PI-
128  ----------  K+P=PK*+1320=PK(+,0)PI+PI(-,0)
129  ----------  K+P=PK*+1320=PK0PI+
130  ----------  K+P=PK*+1320=PK0PI+PI0
131  ----------  K+P=PK*+1320=P(K*890PI)+
132  ----------  K+P=PK*+1320=PRH+K0
133  ----------  K+P=PK*+1320=POMK+
134  ----------  K+P=PK*+1320PI0=PK0PI+PI0
135  ----------  K+P=PK*01320PI+=PK0PI+PI0
136  ----------  K+P=PK*01320PI+=PETK0PI+
137  ----------  K+P=PK*01320PI+=POMK0PI+
138  ----------  K+P=PK*01320PI+=PK*+890PI-PI+
139  ----------  K+P=PK*+1400
140  ----------  K+P=PK*+1400=PK+PI0
141  ----------  K+P=PK*+1400=PK0PI+
142  ----------  K+P=PK*+1400=P(K*890PI)+
143  ----------  K+P=PK*+1400=PRH+K0
144  ----------  K+P=PK*+1400=PRH0K+
145  ----------  K+P=PK*+1400=POMK+
146  ----------  K+P=PK*+1400=PK*0890PI+
147  ----------  K+P=PK*+1400PI0=PK0PI+PI0
148  ----------  K+P=PK*01400PI+=PK+PI+PI-
149  ----------  K+P=PK*01400PI+=PK0PI+PI0
150  ----------  K+P=PK*01400PI+=PETK0PI+
151  ----------  K+P=PK*01400PI+=POMK0PI+
152  ----------  K+P=PK*01400PI+=PK*+890PI+PI-
153  ----------  K+P=PAXI+Z0
154  ----------  K+P=NK+PI+
155  ----------  K+P=NK+PI+ (NON RESONANT)
156  ----------  K+P=NK+PI+PI+PI+PI-PI-
157  ----------  K+P=NK+PI+PI+PI+PI-PI-Z0
158  ----------  K+P=NK+PI+PI+PI-
159  ----------  K+P=NK+PI+PI+PI-(NON RESONANT)
160  ----------  K+P=NK+PI+PI+PI-PI0
161  ----------  K+P=NK+PI+PI+PI-Z0
162  ----------  K+P=NK+PI+PI0
163  ----------  K+P=NK+K+K-PI+
164  ----------  K+P=NK+K+K0
165  ----------  K+P=NK0PI+PI+
166  ----------  K+P=NK0PI+PI+ (NON RESONANT)
167  ----------  K+P=NK0PI+PI+PI+PI-
168  ----------  K+P=NK0PI+PI+PI+PI-Z0
169  ----------  K+P=NK0PI+PI+Z0
170  ----------  K+P=NK*+890PI+
171  ----------  K+P=NK*+890PI+=NK0PI+PI+
172  ----------  K+P=NK*0890PI+PI+
173  ----------  K+P=NK*++1320=NK0PI+PI+
174  ----------  K+P=N*++1236=PK0PI+
175  ----------  K+P=N*++1236K+PI+PI-PI-
176  ----------  K+P=N*++1236K+PI+PI-PI-PI0
177  ----------  K+P=N*++1236K+PI-
178  ----------  K+P=N*++1236K+PI-PI0
179  ----------  K+P=N*++1236K+PI-PI0 (NO K*)
180  ----------  K+P=N*++1236K+725PI-=PK+3PI
181  ----------  K+P=N*++1236K0725PI0=PK+3PI
182  ----------  K+P=N*++1236K0
183  ----------  K+P=N*++1236K0PI+PI-
184  ----------  K+P=N*++1236K0PI+PI-PI0
185  ----------  K+P=N*++1236K0PI0
186  ----------  K+P=N*++1236K*+890PI-
187  ----------  K+P=N*++1236K*0890
188  ----------  K+P=N*++1236K*0890=PK+PI+PI-
189  ----------  K+P=N*++1236K*0890=PK0PI+PI0
190  ----------  K+P=N*++1236K*0890PI+PI-
191  ----------  K+P=N*++1236K*0PI+PI-,K*=K+PI-
192  ----------  K+P=N*++1236K*0890PI+PI-PI0
193  ----------  K+P=N*++1236K*0890PI0
194  ----------  K+P=N*++1236K*01400
195  ----------  K+P=N*++1236K*0890PI0=PK+3PI
196  ----------  K+P=N*++1236K*01400=PK+PI+PI-
197  ----------  K+P=N*++K*01400=N*++K+PI-
198  ----------  K+P=N*++K*01400=N*++RHOK0
199  ----------  K+P=N*++K*01400=N*++OMK0
200  ----------  K+P=N*++K*01400=N*++K*+890PI-
201  ----------  K+P=N*++K*01400=N*++K0PI+PI-NR
202  ----------  K+P=N*+1236K+
203  ----------  K+P=N*+1236K+=PK+PI0
204  ----------  K+P=N*+1236K+=NK+PI+
205  ----------  K+P=N*+1236K+PI+PI-
206  ----------  K+P=N*+1236K0PI+
207  ----------  K+P=N*+1236K*+890
208  ----------  K+P=N*+1236K*+890=PK0PI+PI0
209  ----------  K+P=N*+1236K*+890=NK0PI+PI+
210  ----------  K+P=N*+1236K*0890PI+
211  ----------  K+P=N*-1236K+PI+PI+
212  ----------  K+P=N*01236K+PI+=PK+PI+PI-
213  ----------  K+P=N*01236K+PI+PI+PI-
214  ----------  K+P=N*01236K+PI+PI0
215  ----------  K+P=N*01236K*+890PI+
216  ----------  K+P=N*01236K*+890PI+PI+PI-
217  ----------  K+P=N*01236K*0890PI+PI+PI0
218  ----------  K+P=N*1236K=(P/N)KPI
219  ----------  K+P=N+1570K*+890
220  ----------  K+P=L
221  ----------  K+P=LPPI0AXI+
222  ----------  K+P=LPAXI+
223  ----------  K+P=LNPI+AXI+
224  ----------  K+P=LK+PI+Z0
225  ----------  K+P=LK+K+
226  ----------  K+P=LK+K+PI+PI-
227  ----------  K+P=LK+K+PI+PI-PI0
228  ----------  K+P=LK+K+PI0
229  ----------  K+P=LK+K+Z0
230  ----------  K+P=LK+K0PI+
231  ----------  K+P=LK+K0PI+PI+PI-
232  ----------  K+P=LK+K0PI+PI0
233  ----------  K+P=LK+K0PI+PI0Z0
```

```
234  ----------  K+P=LKOKOPI+PI+
235  ----------  K+P=LKOKOPI+PI+PIO
236  ----------  K+P=L/SO
237  ----------  K+P=(L/SO)K+K+
238  ----------  K+P=(L/SO)(P/N)AXI+
239  ----------  K+P=(L/SO)K+K+PI+PI-ZO
240  ----------  K+P=S+(P/N)AXI+
241  ----------  K+P=S+NAXI+
242  ----------  K+P=S+K+KO
243  ----------  K+P=S+K+KOPI+PI-PIO
244  ----------  K+P=S+KOKOPI+
245  ----------  K+P=S+AXI+ZO
246  ----------  K+P=S-(P/N)AXI+
247  ----------  K+P=S-K+K+PI+
248  ----------  K+P=S+K(+,0)KOPI(0,+)
249  ----------  K+P=SOPAXI+
250  ----------  K+P=SOK+K+
251  ----------  K+P=SOK+K+PI+PI-
252  ----------  K+P=Y(P/N)AXI+
253  ----------  K+P=XI-
254  ----------  K+P=XI-PK+AXI+
255  ----------  K+P=K+3PI+2PI-ZO
256  ----------  K+P=K+KOPI+ZO
257  ----------  K+P=KO
258  ----------  K+P=KOPI+PI+ZO
259  ----------  K+P=OM
260  ----------  K+P=AOM+
261  ----------  K+P=AXI+
262  ----------  K+P=AL
263  ----------  K+P=2PI
264  ----------  K+N=TOTAL
265  ----------  K+N=PK+PI-
266  ----------  K+N=PKO
267  ----------  K+N=PKOPIO
268  ----------  K+N=PK*0890
269  ----------  K+N=PK*0890=PK+PI-
270  ----------  K+N=PK*01400
271  ----------  K+N=PK*01400=PK+PI-
272  ----------  K+N=NKOPI+
273  ----------  K+N=NK**890
274  ----------  K+N=NK**890=NKOPI+
275  ----------  K+N=N**1236KO
276  ----------  K+N=N**1236KO=NKOPI+
277  ----------  K+N=N*01236K+
278  ----------  K+N=N*01236K+=PK+PI-
279  ----------  K+N=N+1688KO
280  ----------  K+N=N+1688KO=NKOPI+
281  ----------  K+DE=TOTAL
282  ----------  K+DE=DEK+PI+PI-
283  ----------  K+DE=DEKOPI+
284  ----------  K+DE=PPK+PI-
285  ----------  K+DE=PPKO
286  ----------  K+DE=PPKOPIO
287  ----------  K+DE=PPKSPIO
288  ----------  K+DE=PNKOPI+
289  ----------  K+DE=PNKSPI+
290  ----------  K+DE=AOM+
```

TABLE 8

Description

The heading gives the date of printing, the number assigned to the reaction, the initial state and the final state.

In the table the first three columns describe the initial system, they are labelled, s, KIN. ENERGY, and P LAB, and represent, respectively, the total c.m. energy squared in GeV^2, the kinetic energy in GeV of the incident particle and the laboratory momentum in GeV/c of the incident particle. In the fourth column, labelled SIGMA, is the cross section in millibarns unless otherwise stated. In the fifth column, headed ERROR is the error on the cross section in the same units; however if the error quoted is asymmetric, the plus error is given in the fifth column and the negative error in the sixth (which does not have a heading). In the next section is given the reference which is so entitled. Should a foot note be required a symbol is printed in the last column and then is reprinted and explained below the set of values under the heading = FOOTNOTES".

Finally, if there are sufficient data points a fit of the formula

$$\sigma = K \; p_{LAB}^{+N}$$

is made and the results of this fit are given, that is the values and errors of K and N are quoted together with the number of points fitted, the χ^2-value and the probability of the fit. The fit is made to all data values above a certain lower limit of p_{LAB} and the value of the lower limit is also printed.

********** K+P **********

S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 1							
TOTAL							
2.278	.121	.366	13.2000	.3500		BOWEN,PR2,2599-70	
2.323	.145	.405	13.6900	.3100		BOWEN,PR2,2599-70	
2.365	.168	.440	12.8100	.2300		BOWEN,PR2,2599-70	
2.379	.175	.451	16.3000	1.7000		KYCIA PR118,553-60	
2.410	.191	.475	13.5800	.1700		BOWEN,PR2,2599-70	
2.451	.213	.506	13.0200	.2300		BOWEN,PR2,2599-70	
2.473	.225	.522	15.2000	1.3000		KYCIA PR118,553-60	
2.492	.235	.536	12.0900	.2000		BOWEN,PR2,2599-70	
2.534	.257	.566	13.2000	.1900		BOWEN,PR2,2599-70	
2.567	.275	.589	16.3000	1.7000		KYCIA PR118,553-60	
2.571	.277	.592	14.3600	1.2400		BUGG PR168,1466-68	
2.577	.280	.596	13.0400	.1900		BOWEN,PR2,2599-70	
2.612	.299	.620	12.9100	.4900		BUGG PR168,1466-68	
2.622	.304	.627	12.1800	.1400		BOWEN,PR2,2599-70	
2.647	.318	.644	12.8800	.4800		BUGG PR168,1466-68	
2.666	.328	.657	12.4300	.2000		BOWEN,PR2,2599-70	
2.710	.351	.686	11.2500	.1800		BOWEN,PR2,2599-70	
2.752	.373	.713	11.1400	.3500		BUGG PR168,1466-68	
2.758	.377	.717	11.1000	.2500		BOWEN,PR2,2599-70	
2.838	.419	.768	11.6500	.3300		BUGG PR168,1466-68	
2.841	.421	.770	13.0000	.9000		COOK PRL7,182-61	
2.925	.466	.823	12.9700	.2500		BUGG PR168,1466-68	
2.985	.498	.860	14.1000	ERROR NOT GIVEN		BROWN,715,DUB64	
2.992	.501	.864	13.2100	.2400		BUGG PR168,1466-68	
2.992	.501	.864	14.0700	.5500		BLAND,NPB13,595-69	1H
3.036	.525	.891	14.3900	.3800		COOL PR1,1887-70	
3.057	.536	.904	14.2300	.1900		BUGG PR168,1466-68	
3.113	.566	.938	14.5900	.2100		BUGG PR168,1466-68	
3.120	.570	.942	15.5700	.3000		COOL PR1,1887-70	
3.150	.586	.960	15.3000	ERROR NOT GIVEN		BROWN,715,DUB64	
3.165	.594	.969	15.6300	.2200		BUGG PR168,1466-68	
3.165	.594	.969	15.2800	.9000		BLAND,NPB13,595-69	1H
3.167	.595	.970	15.4000	.6000		COOK PRL7,182-61	
3.204	.614	.992	15.9700	.2700		COOL PR1,1887-70	
3.266	.648	1.029	15.6900	.1700		BUGG PR168,1466-68	
3.290	.660	1.043	17.3900	.2500		COOL PR1,1887-70	
3.359	.697	1.084	17.0400	.1700		BUGG PR168,1466-68	
3.377	.706	1.094	17.1200	.2500		COOL PR1,1887-70	
3.455	.749	1.140	18.0200	.1700		BUGG PR168,1466-68	
3.462	.752	1.144	18.0900	.1500		COOL PR1,1887-70	
3.507	.776	1.170	18.1000	.6000		COOK PRL7,182-61	
3.540	.794	1.189	18.0600	.1700		BUGG PR168,1466-68	
3.549	.798	1.194	18.4700	.1200		COOL PR1,1887-70	
3.559	.804	1.200	18.1000	ERROR NOT GIVEN		BROWN,715,DUB64	
3.571	.810	1.207	19.8500	1.2800		BLAND,NPB13,595-69	H
3.625	.839	1.238	18.1100	.1700		BUGG PR168,1466-68	
3.638	.846	1.245	18.5400	.1200		COOL PR1,1887-70	
3.721	.890	1.293	18.4400	.1500		BUGG PR168,1466-68	
3.725	.892	1.295	18.6100	.1100		COOL PR1,1887-70	
3.734	.897	1.300	17.9000	.9000		COOK PRL7,182-61	
3.813	.939	1.345	18.4400	.1000		COOL PR1,1887-70	
3.816	.941	1.347	18.2700	.1600		BUGG PR168,1466-68	
3.839	.953	1.360	17.7000	ERROR NOT GIVEN		BROWN,715,DUB64	
3.901	.986	1.395	18.2700	.1000		COOL PR1,1887-70	
3.924	.998	1.408	17.9700	.1400		BUGG PR168,1466-68	
3.981	1.029	1.440	18.1000	.7000		COOK PRL7,182-61	
3.990	1.033	1.445	18.0400	.1000		COOL PR1,1887-70	
3.999	1.038	1.450	18.2000	.8000		BETTINI PL16,83-65	
4.031	1.055	1.468	17.9400	.1600		BUGG PR168,1466-68	
4.079	1.081	1.495	17.9300	.0900		COOL PR1,1887-70	
4.177	1.133	1.550	17.7000	.1100		ABRAMS TBP PR-69	
4.200	1.145	1.563	17.6600	.1400		BUGG PR168,1466-68	
4.259	1.177	1.596	17.7500	.0900		COOL PR1,1887-70	
4.266	1.181	1.600	17.7100	.1000		ABRAMS TBP PR-69	
4.349	1.225	1.646	17.8600	.0600		COOL PR1,1887-70	
4.428	1.267	1.690	17.5000	.6000		COOK PRL7,182-61	
4.439	1.273	1.696	17.8500	.0600		COOL PR1,1887-70	
4.446	1.276	1.700	17.7300	.0800		ABRAMS TBP PR-69	
4.529	1.321	1.746	17.8000	.0600		COOL PR1,1887-70	
4.536	1.325	1.750	17.8300	.0700		ABRAMS TBP PR-69	
4.619	1.369	1.796	17.8000	.0600		COOL PR1,1887-70	
4.627	1.373	1.800	17.9800	.1000		ABRAMS TBP PR-69	
4.717	1.421	1.850	17.7700	.0700		ABRAMS TBP PR-69	
4.801	1.465	1.896	17.8100	.0600		COOL PR1,1887-70	
4.808	1.469	1.900	17.7900	.0700		ABRAMS TBP PR-69	
4.890	1.513	1.945	17.4100	.1600		BUGG PR168,1466-68	
4.899	1.518	1.950	17.7500	.0700		ABRAMS TBP PR-69	
4.917	1.527	1.960	19.4000	2.0000		CHINOW.PR139B,1411-65	
4.935	1.537	1.970	16.9000	.4000		COOK PRL7,182-61	
4.983	1.562	1.996	17.6000	.0800		COOL PR1,1887-70	
4.990	1.566	2.000	17.6300	.0600		ABRAMS TBP PR-69	
5.081	1.615	2.050	17.7200	.0700		ABRAMS TBP PR-69	
5.165	1.660	2.096	17.5100	.0800		COOL PR1,1887-70	
5.172	1.663	2.100	17.5600	.0700		ABRAMS TBP PR-69	
5.264	1.712	2.150	17.5700	.0700		ABRAMS TBP PR-69	
5.348	1.757	2.196	17.5400	.0800		COOL PR1,1887-70	
5.355	1.761	2.200	17.6000	.0700		ABRAMS TBP PR-69	
5.465	1.820	2.260	17.1000	.5000		COOK PRL7,182-61	
5.539	1.859	2.300	17.4400	.0600		ABRAMS TBP PR-69	
5.630	1.908	2.350	17.5200	.0400		ABRAMS TBP PR-69	
5.715	1.953	2.396	17.5500	.0800		COOL PR1,1887-70	
5.722	1.956	2.400	17.5600	.0600		ABRAMS TBP PR-69	
5.814	2.005	2.450	17.4800	.0400		ABRAMS TBP PR-69	
5.856	2.028	2.473	17.2500	.1200		BUGG PR168,1466-68	
5.906	2.054	2.500	17.4900	.0500		ABRAMS TBP PR-69	
5.998	2.104	2.550	17.4400	.0400		ABRAMS TBP PR-69	
5.998	2.104	2.550	17.1000	.6000		COOK PRL7,182-61	
6.090	2.153	2.600	17.5000	.0400		ABRAMS TBP PR-69	
6.183	2.202	2.650	17.4700	.0400		ABRAMS TBP PR-69	
6.256	2.241	2.690	18.0000	1.0000		VOVENKO,385,CERN62	
6.275	2.251	2.700	17.4100	.0400		ABRAMS TBP PR-69	
6.367	2.300	2.750	17.4100	.0400		ABRAMS TBP PR-69	
6.460	2.349	2.800	17.4000	.0400		ABRAMS TBP PR-69	
6.515	2.379	2.830	16.7000	.5000		COOK PRL7,182-61	
6.552	2.399	2.850	17.3000	.0400		ABRAMS TBP PR-69	

FOOTNOTES

1H=COULOMB CONTRIB. SUBTRACTED **** ALSO CROSS SECT. OBTAINED FROM TAU COUNT
H=CROSS SECTIONS OBTAINED FROM COUNT OF TAU DECAYS

********** K+P **********

	S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 1								
TOTAL								
(CONTINUATION)	6.644	2.448	2.900	17.3400	.0300		ABRAMS TBP PR-69	
	6.644	2.448	2.900	23.8000	2.5000		VONDARDEL,484,ROCH60	
	6.737	2.497	2.950	17.3000	.0400		ABRAMS TBP PR-69	
	6.774	2.517	2.970	17.0000	1.5000		FERRC-LUZZI,182,SIE63	
	6.778	2.519	2.972	20.0000	2.0000		SALLST.NC49A,348-67	
	6.829	2.547	3.000	17.1900	.0400		ABRAMS TBP PR-69	
	6.922	2.596	3.050	17.1400	.0400		ABRAMS TBP PR-69	
	7.015	2.645	3.100	17.0800	.0500		ABRAMS TBP PR-69	
	7.089	2.685	3.140	16.5000	1.0000		VOVENKO,385,CERN62	
	7.107	2.695	3.150	17.1500	.0400		ABRAMS TBP PR-69	
	7.200	2.744	3.200	17.1300	.0300		ABRAMS TBP PR-69	
	7.293	2.793	3.250	17.5000	1.2000		BAKER PR129,2285-63	
	7.293	2.793	3.250	17.1300	.0300		ABRAMS TBP PR-69	
	7.386	2.843	3.300	17.1400	.0300		ABRAMS TBP PR-69	
	7.683	3.001	3.460	15.0000	1.0000		VOVENKO,385,CERN62	
	7.850	3.090	3.550	23.2000	2.0000		VONDARDEL,484,ROCH60	
	8.129	3.239	3.700	17.5000	1.0000		VOVENKO,385,CERN62	
	8.687	3.537	4.000	17.6000	1.2000		BAKER PR129,2285-63	
	9.339	3.884	4.350	18.0000	.7000		VOVENKO,385,CERN62	
	10.086	4.282	4.750	19.5000	.7000		VOVENKO,385,CERN62	
	10.366	4.431	4.900	19.7000	1.4000		VONDARDEL,484,ROCH60	
	11.487	5.028	5.500	17.9000	.8000		BAKER PR129,2285-63	
	12.421	5.526	6.000	17.0000	.1000		GALBR.PR138B,913-65	
	14.292	6.524	7.000	18.4000	.6000		BAKER PR129,2285-63	
	15.978	7.422	7.900	19.4000	.8000		VONDARDEL,484,ROCH60	
	16.165	7.521	8.000	17.3000	.1000		GALBR.PR138B,913-65	
	17.101	8.021	8.500	18.7000	.6000		BAKER PR129,2285-63	
	19.912	9.518	10.000	18.8000	.7000		BAKER PR129,2285-63	
	19.912	9.518	10.000	17.3000	.1000		GALBR.PR138B,913-65	
	19.912	9.518	10.000	17.3000	.1000		BGO COLL.,121,CERN68	
	21.599	10.417	10.900	18.1000	.7000		BAKER PR129,2285-63	
	22.724	11.017	11.500	19.0000	.6000		BAKER PR129,2285-63	
	23.661	11.516	12.000	17.3000	.1000		GALBR.PR138B,913-65	
	24.599	12.016	12.500	18.3000	.8000		BAKER PR129,2285-63	
	26.287	12.915	13.400	17.5000	.6000		BAKER PR129,2285-63	
	27.412	13.515	14.000	17.4000	.1000		GALBR.PR138B,913-65	
	29.287	14.514	15.000	18.5000	.7000		BAKER PR129,2285-63	
	29.287	14.514	15.000	17.3100	.1300		DENISOV,PL36B,415-71	S4
	31.163	15.514	16.000	17.0000	.1000		GALBR.PR138B,913-65	
	32.851	16.413	16.900	18.8000	.6000		BAKER PR129,2285-63	
	34.914	17.513	18.000	17.1000	.1000		GALBR.PR138B,913-65	
	36.790	18.513	19.000	17.3000	.9000		BAKER PR129,2285-63	
	38.666	19.512	20.000	17.5000	.1000		GALBR.PR138B,913-65	
	38.666	19.512	20.000	17.4200	.1600		DENISOV,PL36B,415-71	S4
	48.046	24.511	25.000	17.6800	.1000		DENISOV,PL36B,415-71	S4
	57.427	29.510	30.000	17.7200	.1000		DENISOV,PL36B,415-71	S4
	66.809	34.510	35.000	17.8000	.1000		DENISOV,PL36B,415-71	S4
	76.190	39.509	40.000	18.0500	.1300		DENISOV,PL36B,415-71	S4
	85.572	44.509	45.000	17.8800	.1200		DENISOV,PL36B,415-71	S4
	94.954	49.509	50.000	18.3700	.1100		DENISOV,PL36B,415-71	S4
	104.337	54.508	55.000	18.1700	.1400		DENISOV,PL36B,415-71	S4
THRESHOLD	2.05	0.00	0.00				156 DATA POINTS LISTED	

FIT OF SIGMA AGAINST PLAB GEV/C

34 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .52

K = 16.29 +- .23 N =+ .03 +- .00

..... REACTION 2								
K+P	2.087	.019	.140	9.2000	2.1000		GOLDHABER PRL9,135-62	
	2.107	.030	.175	12.5000	2.2000		GOLDHABER PRL9,135-62	
	2.128	.041	.205	11.5000	1.7000		GOLDHABER PRL9,135-62	
	2.150	.053	.235	11.2000	1.6000		GOLDHABER PRL9,135-62	
	2.176	.067	.265	10.0000	1.6000		GOLDHABER PRL9,135-62	
	2.265	.114	.355	11.7000	1.2000		GOLDHABER PRL9,135-62	
	2.470	.223	.520	12.2000	1.3000		GOLDHABER PRL9,135-62	
	2.644	.316	.642	12.4000	.9000		GOLDHABER PRL9,135-62	
	2.857	.429	.780	12.6000	.4000		FOCARDI PL24B,314-67	
	2.904	.455	.810	13.0000	.7000		STUBBS PRL7,188-61	
	2.908	.457	.812	14.6000	1.0000		CHINOWSKY,451,ROCH60	
	2.985	.498	.860	12.0000	1.6000		BROWN,715,DUB64	
	2.992	.501	.864	12.3700	.4900		BLAND,NPB13,595-69	1H
	3.051	.533	.900	12.1000	.6100		GIACOME. NPB20,301-70	
	3.150	.586	.960	12.9000	2.3000		BROWN,715,DUB64	
	3.165	.594	.969	11.6300	.7100		BLAND,NPB13,595-69	1H
	3.167	.595	.970	10.2000	1.5000		COOK PR129,2743-63	
	3.167	.595	.970	11.6400	.6100		GIACOME. NPB20,301-70	
	3.319	.676	1.060	11.1500	.5300		GIACOME. NPB20,301-70	
	3.430	.735	1.125	10.4100	.2900		GIACOME. NPB20,301-70	
	3.438	.739	1.130	10.7900	.6100		GIACOME. NPB20,301-70	
	3.507	.776	1.170	10.7000	1.1000		COOK PR129,2743-63	
	3.559	.804	1.200	10.6000	.6000		BLAND BER66	
	3.571	.810	1.207	11.8100	.7900		BLAND,NPB13,595-69	H
	3.577	.813	1.210	10.8200	.4300		GIACOME. NPB20,301-70	
	3.646	.850	1.250	10.4100	.2900		GIACOME. NPB20,301-70	
	3.769	.916	1.320	10.0600	.2800		GIACOME. NPB20,301-70	
	3.839	.953	1.360	11.5000	2.3000		BROWN,715,DUB64	
	3.875	.972	1.380	10.0500	.2300		GIACOME. NPB20,301-70	
	3.999	1.038	1.450	9.7000	.5000		BETTINI PL16,83-65	
	4.052	1.066	1.480	9.4500	.2800		GIACOME. NPB20,301-70	
	4.231	1.162	1.580	9.6000	1.0000		COOK PRL7,182-61	
	4.917	1.527	1.960	7.5000	.7000		CHINOW.PR139B,1411-65	
	4.935	1.537	1.970	5.6000	.4000		COOK PR129,2743-63	
	5.191	1.673	2.110	7.4600	.3000		DANYSZ NPB14,160-69	
	5.557	1.868	2.310	6.2300	.2500		DANYSZ NPB14,160-69	
	5.961	2.084	2.530	5.3400	.2000		DANYSZ NPB14 ,160-69	
	5.961	2.084	2.530	5.6000	.4000		WHITMORE,PR3,1092-71	
	6.312	2.271	2.720	5.3800	.2000		DANYSZ NPB14 ,160-69	
	6.386	2.310	2.760	4.7500	.4900		WHITMORE,PR3,1092-71	
	6.829	2.547	3.000	5.0900	.2500		PAPE LHEB96-68	

FOOTNOTES

S4=SYSTEMATIC ERROR IS 0.4 PER CENT

1H=COULOMB CONTRIB. SUBTRACTED **** ALSO CROSS SECT. OBTAINED FROM TAU COUNT

H=CROSS SECTIONS OBTAINED FROM COUNT OF TAU DECAYS

K+P

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 2									
K+P	7.200	2.744	3.200	4.8100		.6300		WHITMORE,PR3,1092-71	
(CONTINUATION)	7.757	3.041	3.500	4.5000		.2100		PAPE LHEB96-68	
	9.806	4.133	4.600	3.8500		.2500		MCNAUG. NP14B,237-69	
	10.552	4.531	5.000	3.6300		.2000		PAPE LHEB96-68	
	13.918	6.324	6.800	3.4800		.4300		FOLEY PRL11,503-63	
	14.854	6.823	7.300	3.8600		.3800		CHIEN PL28B,615-69	
	19.537	9.319	9.800	3.3400		.1700		FOLEY PRL11,503-63	
	24.974	12.216	12.700	3.6000		.3000	.6000	JAIN NPB19,568-70	
	25.161	12.316	12.800	3.3400		.1500		FOLEY PRL11,503-63	
	28.912	14.314	14.800	3.4100		.1700		FOLEY PRL11,503-63	
THRESHOLD	2.05	0.00	0.00					51 DATA POINTS LISTED	

FIT OF SIGMA AGAINST PLAB GEV/C

8 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. =1.00

K = 4.32 +- .97 N = -.10 +- .10

..... REACTION 3									
PK+ (BACKWARD)	24.974	12.216	12.700	3.0000	MICROB	ERROR NOT GIVEN		JAIN NPB19,568-70	
THRESHOLD	2.05	0.00	0.00						
..... REACTION 4									
2 PRONGS	6.774	2.517	2.970	11.2000		1.0000		FERRO-LUZZI,182,SIE63	
	16.539	7.721	8.200	8.1200		.1600		PAPE LHEB-69	
THRESHOLD	2.05	.00	.04					2 DATA POINTS LISTED	
..... REACTION 5									
2 PRONGS,V0	6.774	2.517	2.970	1.9000		.1000		FERRO-LUZZI,182,SIE63	
	7.831	3.080	3.540	4.2450		.0820		BISHOP NP89,403-69	
	16.539	7.721	8.200	.9670		.0500		PAPE LHEB-69	
THRESHOLD	3.72	.89	1.29					3 DATA POINTS LISTED	
..... REACTION 6									
2 PRONGS,2V0	16.539	7.721	8.200	.0579		.0120		PAPE LHEB-69	
THRESHOLD	5.07	1.61	2.04						
..... REACTION 7									
2 PRONGS,3V0	16.539	7.721	8.200	7.9000	MICROB	4.5000		PAPE LHEB-69	
THRESHOLD	5.72	1.95	2.40						
..... REACTION 8									
2 PRONGS,L	14.854	6.823	7.300	.0820		ERROR NOT GIVEN		CHIEN BAPS12,506-67	
	24.974	12.216	12.700	.1500		.0140		BERLING.PL27B,665-68	
THRESHOLD	6.49	2.37	2.82					2 DATA POINTS LISTED	
..... REACTION 9									
2 PRONGS,LK0	24.974	12.216	12.700	.1400		ERROR NOT GIVEN		BERLING.PL27B,665-68	
THRESHOLD	9.25	3.84	4.30						
..... REACTION 10									
2 PRONGS,L2K0	24.974	12.216	12.700	.0400		ERROR NOT GIVEN		BERLING.PL27B,665-68	
THRESHOLD	5.72	1.95	2.40						
..... REACTION 11									
2 PRONGS,K0	10.552	4.531	5.000	4.2400		.2000		BEUPRE,NPB30,381-71	
	14.854	6.823	7.300	2.5000		ERROR NOT GIVEN		CHIEN BAPS12,506-67	
	16.539	7.721	8.200	3.0900		.2100		BEAUPRE,NPB30,381-70	
	24.974	12.216	12.700	2.5000		.1600		BERLING.PL27B,665-68	
THRESHOLD	3.71	.89	1.29					4 DATA POINTS LISTED	
..... REACTION 12									
2 PRONGS,AL	14.854	6.823	7.300	.0360		ERROR NOT GIVEN		CHIEN BAPS12,506-67	
	24.974	12.216	12.700	.1100		.0400		FORMAN BAPS12,540-67	
THRESHOLD	6.49	2.37	2.82					2 DATA POINTS LISTED	
..... REACTION 13									
4 PRONGS	6.774	2.517	2.970	3.6000		.2000		FERRO-LUZZI,182,SIE63	
	11.487	5.028	5.500	5.3000		ERROR NOT GIVEN		LUSTE BAPS13,114-68	
	16.539	7.721	8.200	5.8600		.1200		PAPE LHEB-69	
THRESHOLD	2.93	.47	.83					3 DATA POINTS LISTED	
..... REACTION 14									
4 PRONGS,V0	6.774	2.517	2.970	.1500		.0300		FERRO-LUZZI,182,SIE63	
	7.757	3.041	3.500	.2150		ERROR NOT GIVEN		GOSHAW,WISC67	
	16.539	7.721	8.200	.7740		.0450		PAPE LHEB-69	
THRESHOLD	4.88	1.51	1.94					3 DATA POINTS LISTED	
..... REACTION 15									
4 PRONGS,2V0	16.539	7.721	8.200	.0240		.0080		PAPE LHEB-69	
THRESHOLD	6.40	2.32	2.77						
..... REACTION 16									
4 PRONGS,L	14.854	6.823	7.300	.0360		ERROR NOT GIVEN		CHIEN BAPS12,506-67	
	24.974	12.216	12.700	.1600		.0300		BERLING.PL27B,665-68	
THRESHOLD	8.00	3.17	3.63					2 DATA POINTS LISTED	
..... REACTION 17									
4 PRONGS,LK0	24.974	12.216	12.700	.1100		ERROR NOT GIVEN		BERLING.PL27B,665-68	
THRESHOLD	11.04	4.79	5.26						

K+P

		S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 18											
4 PRONGS,K0		10.552	4.531	5.000		1.4800		.1200		BEAUPRE,NPB30,381-70	
		14.854	6.823	7.300		1.4000		ERROR NOT GIVEN		CHIEN BAPS12,506-67	
		16.539	7.721	8.200		2.4000		.1500		BEAUPRE,NPB30,381-70	
	THRESHOLD	4.87	1.50	1.93						3 DATA POINTS LISTED	
..... REACTION 19											
4 PRONGS,AL		14.854	6.823	7.300		2.0000	MICROB	ERROR NOT GIVEN		CHIEN BAPS12,506-67	
	THRESHOLD	8.00	3.17	3.63							
..... REACTION 20											
6 PRONGS		6.774	2.517	2.970		.0500		.0200		FERRO-LUZZI,182,SIE63	
		10.552	4.531	5.000		.3680		.0300		DE BAERE,NPB22,131-70	
		16.539	7.721	8.200		1.2100		.0560		PAPE LHEB-69	
	THRESHOLD	3.97	1.02	1.44						3 DATA POINTS LISTED	
..... REACTION 21											
6 PRONGS,V0		16.539	7.721	8.200		.0868		.0150		PAPE LHEB-69	
	THRESHOLD	6.20	2.21	2.66							
..... REACTION 22											
6 PRONGS,2V0		16.539	7.721	8.200		2.6000	MICROB	2.6000		PAPE LHEB-69	
	THRESHOLD	7.90	3.11	3.57							
..... REACTION 23											
6 PRONGS,K0		10.552	4.531	5.000		.0400		.0100		BEAUPRE,NPB30,381-70	
		16.539	7.721	8.200		.2700		.0500		BEAUPRE,NPB30,381-70	
	THRESHOLD	6.19	2.20	2.65						2 DATA POINTS LISTED	
..... REACTION 24											
8 PRONGS		16.539	7.721	8.200		.0789		.0140		PAPE LHEB-69	
	THRESHOLD	5.17	1.66	2.10							
..... REACTION 25											
8 PRONGS,K0		16.539	7.721	8.200		2.0000	MICROB	1.0000		BEUPRE,NPB30,381-71	
	THRESHOLD	7.66	2.99	3.45							
..... REACTION 26											
2V0		7.831	3.080	3.540		.0253		.0054		BISHOP,NPB23,547-70	
	THRESHOLD	5.90	2.05	2.50							
..... REACTION 27											
INELASTIC		2.904	.455	.810		.0600		.0300		FISK,358,CERN62	
		3.051	.533	.900		2.2000		.1200		GIACOME. NPB20,301-70	
		3.167	.595	.970		4.0100		.2500		GIACOME. NPB20,301-70	
		3.319	.676	1.060		5.7700		.2200		GIACOME. NPB20,301-70	
		3.438	.739	1.130		7.1300		.3100		GIACOME. NPB20,301-70	
		3.577	.813	1.210		7.6800		.2500		GIACOME. NPB20,301-70	
		3.646	.850	1.250		8.1400		.2000		GIACOME. NPB20,301-70	
		3.769	.916	1.320		8.4400		.2000		GIACOME. NPB20,301-70	
		3.875	.972	1.380		8.2900		.2000		GIACOME. NPB20,301-70	
		4.052	1.066	1.480		8.4700		.2500		GIACOME. NPB20,301-70	
		10.552	4.531	5.000		13.6000		.3000		BEAUPRE,NPB30,381-70	
		16.539	7.721	8.200		13.8000		.3000		BEAUPRE,NPB30,381-70	
	THRESHOLD	2.46	.22	.52						12 DATA POINTS LISTED	
..... REACTION 28											
PION PRODUCTION		2.908	.457	.812		1.4000		.4000		CHINOWSKY,451,ROCH60	
	THRESHOLD	2.46	.22	.52							
..... REACTION 29											
STRANGE PARTICLES		7.831	3.080	3.540		.1160		.0078		BISHOP NPB9,403-69	
	THRESHOLD	4.42	1.26	1.69							
..... REACTION 30											
Z++1900PI0=PK+PI0		7.757	3.041	3.500		7.0000	MICROB	13.0000		DE BAERE NC51A,401-67	
	THRESHOLD	4.14	1.11	1.53							
..... REACTION 31											
PPPI+PI-PI0AL		14.854	6.823	7.300		.7000	MICROB	.7000		CHIEN PL25B,426-67	
	THRESHOLD	11.63	5.11	5.58							
..... REACTION 32											
PPPI+PI-AL		14.854	6.823	7.300		.7000	MICROB	.7000		CHIEN PL25B,426-67	
		18.038	8.520	9.000		2.8000	MICROB	.8000		LISSAUER NPB18,491-70	
	THRESHOLD	10.70	4.61	5.08						2 DATA POINTS LISTED	
..... REACTION 33											
PPPI+PI0AS-		18.038	8.520	9.000	L	.4600	MICROB			LISSAUER,NPB18,491-70	
	THRESHOLD	11.20	4.87	5.34							
..... REACTION 34											
PPPI+AS-		18.038	8.520	9.000	L	.8500	MICROB			LISSAUER,NPB18,491-70	
	THRESHOLD	10.28	4.38	4.85							
..... REACTION 35											
PPPI-PI0AS+		18.038	8.520	9.000	L	.0700	MICROB			LISSAUER,NPB18,491-70	
	THRESHOLD	11.20	4.87	5.34							

FOOTNOTES

L=LOWER LIMIT

K+P

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 36										
PPPI-AS+	18.038	8.520	9.000	L	.7600	MICROB			LISSAUER,NPB18,491-70	
THRESHOLD	10.28	4.38	4.85							
..... REACTION 37										
PPPIOAL	14.854	6.823	7.300		4.6000	MICROB	2.0000		CHIEN PL25B,426-67	
	18.038	8.520	9.000		7.9000	MICROB	1.3000		LISSAUER NPB18,491-70	
THRESHOLD	9.80	4.13	4.60						2 DATA POINTS LISTED	
..... REACTION 38										
PPK+AP	18.038	8.520	9.000	L	3.0000	MICROB	.5000		LISSAUER,NPB18,491-70	
	18.038	8.520	9.000		3.0000		.5000		LISSAUER NPB18,491-70	
THRESHOLD	10.94	4.74	5.21						2 DATA POINTS LISTED	
..... REACTION 39										
(P/N)(P/N)K-AXI+	24.974	12.216	12.700		.6000	MICROB	ERROR NOT GIVEN		STONE,PL31B,515-70	AU
THRESHOLD	13.62	6.16	6.64							
..... REACTION 40										
(P/N)KPI	2.992	.501	.864		1.6400		.0700		BLAND NP B13,595-69	H
	3.051	.533	.900		2.2000		.1200		GIACOMe. NPB20,301-70	
	3.165	.594	.969		3.6700		.1400		BLAND NP B13,595-69	H
	3.167	.595	.970		4.0100		.2500		GIACOMe. NPB20,301-70	
	3.319	.676	1.060		5.7700		.2200		GIACOMe. NPB20,301-70	
	3.438	.739	1.130		7.1300		.3100		GIACOMe. NPB20,301-70	
	3.571	.810	1.207		7.4000		.1700		BLAND NP B13,595-69	H
	3.577	.813	1.210		7.6800		.2500		GIACOMe. NPB20,301-70	
	3.646	.850	1.250		8.1100		.1300		GIACOMe. NPB20,301-70	
	3.769	.916	1.320		8.4000		.1900		GIACOMe. NPB20,301-70	
	3.875	.972	1.380		8.2300		.1800		GIACOMe. NPB20,301-70	
	4.052	1.066	1.480		8.3100		.2200		GIACOMe. NPB20,301-70	
THRESHOLD	2.47	.22	.52						12 DATA POINTS LISTED	
..... REACTION 41										
(P/N)KPI (NON RESON.)	2.992	.501	.864		.5100		.1500		BLAND NP B13,595-69	H
	3.165	.594	.969		.5800		.2300	.2000	BLAND NP B13,595-69	H
	3.571	.810	1.207		.6900		.3400		BLAND NP B13,595-69	H
THRESHOLD	2.47	.22	.52						3 DATA POINTS LISTED	
..... REACTION 42										
(P/NPI+)K+ZO	6.829	2.547	3.000		.8900		.4400		PAPE LHEB96-68	
	7.757	3.041	3.500		1.7400		.2200		PAPE LHEB96-68	
THRESHOLD	3.42	.73	1.12						2 DATA POINTS LISTED	
..... REACTION 43										
(P/NPI+)K+PI+PI-ZO	6.829	2.547	3.000		.0850		.0370		PAPE LHEB96-68	
	7.757	3.041	3.500		.1490		.0260		PAPE LHEB96-68	
THRESHOLD	3.42	.73	1.12						2 DATA POINTS LISTED	
..... REACTION 44										
(PPIO/NPI+)K+PI+PI-ZO	10.552	4.531	5.000		.6700		.0450		PAPE LHEB-69	
THRESHOLD	4.55	1.33	1.76							
..... REACTION 45										
PPAL	10.552	4.531	5.000		3.2000	MICROB	1.0000		BASSOMP.NC48A,589-67	
	14.854	6.823	7.300		.0220		.0060		MELLEMA,NPB27,437-71	
	25.030	12.246	12.730		6.0000	MICROB	2.0000		BERLINGH.,172,CERN68	
THRESHOLD	8.95	3.67	4.14						3 DATA POINTS LISTED	
..... REACTION 46										
PPALZO	14.854	6.823	7.300		1.3000	MICROB	1.0000		CHIEN PL25B,426-67	
THRESHOLD	10.70	4.61	5.08							
..... REACTION 47										
PP(AL/ASO)	18.038	8.520	9.000		.0128		.0017		LISSAUER NPB18,491-70	
	24.974	12.216	12.700		.0130		.0040		BERLIN. UR-875-218-67	
THRESHOLD	8.94	3.67	4.14						2 DATA POINTS LISTED	
..... REACTION 48										
PPASO	10.552	4.531	5.000		6.0000	MICROB	.6000		BASSOMP.NC48A,589-67	
	14.854	6.823	7.300		2.2000	MICROB	1.3000		CHIEN PL25B,426-67	
	24.974	12.216	12.700		6.0000	MICROB	2.0000		FORMAN BAPS12,540-67	
THRESHOLD	9.40	3.92	4.38						3 DATA POINTS LISTED	
..... REACTION 49										
PNPI+PI+AS-	18.038	8.520	9.000	L	.1500	MICROB			LISSAUER,NPB18,491-70	
THRESHOLD	11.21	4.88	5.35							
..... REACTION 50										
PNPI+PI-AS+	18.038	8.520	9.000	L	1.4000	MICROB			LISSAUER,NPB18,491-70	
THRESHOLD	11.21	4.88	5.35							
..... REACTION 51										
PNPI+AL	14.854	6.823	7.300		.0172		.0035		CHIEN PL25B,426-67	
	18.038	8.520	9.000		.0346		.0028		LISSAUER,NPB18,491-70	
	19.912	9.518	10.000		.0243		.0040		BARNHAM,NPB28,171-71	
THRESHOLD	9.82	4.14	4.61						3 DATA POINTS LISTED	
..... REACTION 52										
PNPI+ALZO	14.854	6.823	7.300		2.0000	MICROB	1.2000		CHIEN PL25B,426-67	
THRESHOLD	11.65	5.11	5.59							

FOOTNOTES

L=LOWER LIMIT
AO=A TRUE AND O TRUE
A=SUM OF ALL FINAL STATES WHICH INCLUDE THE GIVEN PARTICLES
O=ORDER OF MAGNITUDE
H=CROSS SECTIONS OBTAINED FROM COUNT OF TAU DECAYS

K+P

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 53									
PNAS+	18.038	8.520	9.000	1.8000	MICROB	.8000		LISSAUER,NPB18,491-70	
THRESHOLD	9.41	3.92	4.39						
..... REACTION 54									
PK+PI+PI+PI-PI-	6.183	2.202	2.650	.0100		.0100		NEWMAN PR158,1310-67	
	6.829	2.547	3.000	.0350		.0050		PAPE LHEB96-68	
	7.757	3.041	3.500	.0700		.0170		PAPE LHEB96-68	
	10.552	4.531	5.000	.1850		.0190		DE BAERE,NPB22,131-70	
	16.539	7.721	8.200	.3000		.0320		PAPE LHEB-69	
	19.912	9.518	10.000	.2390		.0500		COLLEY,NPB26,71-71	
THRESHOLD	3.97	1.02	1.43					6 DATA POINTS LISTED	
..... REACTION 55									
PK+PI+PI+PI-PI-(NON RES.)	10.552	4.531	5.000	.0520		.0150		DE BAERE,NPB22,131-70	
THRESHOLD	3.97	1.02	1.43						
..... REACTION 56									
PK+PI+PI+PI-PI-PIO	7.757	3.041	3.500	.0100		.0060		PAPE LHEB96-68	
	10.552	4.531	5.000	.1190		.0130		DE BAERE,NPB22,131-70	
	16.539	7.721	8.200	.3750		.0340		PAPE LHEB-69	
THRESHOLD	4.55	1.33	1.76					3 DATA POINTS LISTED	
..... REACTION 57									
PK+PI+PI+PI-PI-ZO	10.552	4.531	5.000	.0110		.0030		DE BAERE,NPB22,131-70	
THRESHOLD	5.16	1.66	2.09						
..... REACTION 58									
PK+PI+PI+PI-PI-PIO NON RES	10.552	4.531	5.000	.0210		ERROR NOT GIVEN		PAPE LHEB96-68	
THRESHOLD	4.54	1.32	1.75						
..... REACTION 59									
PK+PI+PI-	3.571	.810	1.207	.0280		.0110		BLAND,NPB13,595-69	H
	3.646	.850	1.250	.0320		.0110		GIACOMM. NPB20,301-70	
	3.769	.916	1.320	.0360		.0150		GIACOMM. NPB20,301-70	
	3.852	.960	1.367	.0650		.0120		BLAND,NPB13,595-69	H
	3.875	.972	1.380	.0570		.0190		GIACOMM. NPB20,301-70	
	3.999	1.038	1.450	.1500		.0400		BETTINI PL16,83-65	
	4.052	1.066	1.480	.1640		.0330		GIACOMM. NPB20,301-70	
	4.239	1.166	1.585	.3800		.0500		BLAND NP B13,595-69	H
	4.917	1.527	1.960	1.7000		.2000		CHINOW.PR139B,1411-65	
	5.465	1.820	2.260	1.7000		.2000		BOMSE PR158,1281-67	
	5.961	2.084	2.530	2.1800		.1700		ABRAMS,PR1,2433-70	
	6.183	2.202	2.650	2.5000		.2000		NEWMAN PR158,1310-67	
	6.386	2.310	2.760	2.2700		.1800		ABRAMS,PR1,2433-70	
	6.829	2.547	3.000	2.3000		.3000		BUCHNER,NPB29,381-71	A1
	7.200	2.744	3.200	2.1700		.1700		ABRAMS,PR1,2433-70	
	7.757	3.041	3.500	2.1000		.3000		BASSOMP.PL27B,468-68	
	10.552	4.531	5.000	1.8000		.1500		ESKREYS,NPB29,587-71	
	11.487	5.028	5.500	1.7900		.1000		BOMSE PRL20,1519-68	
	16.165	7.521	8.000	1.2900		.1000		JONGEJANS PC-68	
	19.912	9.518	10.000	1.3170		.2600		COLLEY,NPB26,71-71	
	25.030	12.246	12.730	.9500		.1000		BERLINGH.,172,CERN68	
THRESHOLD	2.93	.47	.83					21 DATA POINTS LISTED	
				FIT OF SIGMA AGAINST PLAB GEV/C					
				5 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .96					
				K = 5.91 +- 2.68 N = -.72 +- .24					
..... REACTION 60									
PK+PI+PI- (NON RESONANT)	5.961	2.084	2.530	.4100		.0600		ABRAMS,PR1,2433-70	
	6.386	2.310	2.760	.4600		.0500		ABRAMS,PR1,2433-70	
	7.200	2.744	3.200	.4100		.0600		ABRAMS,PR1,2433-70	
THRESHOLD	2.93	.47	.83					3 DATA POINTS LISTED	
..... REACTION 61									
PK+PI+PI-GAM	7.757	3.041	3.500	3.0000	MICROB	2.0000		PAPE LHEB96-68	
	10.552	4.531	5.000	8.5000	MICROB	5.0000		PAPE LHEB96-68	
THRESHOLD	2.93	.47	.83					2 DATA POINTS LISTED	
..... REACTION 62									
PK+PI+PI-PIO	4.239	1.166	1.585	9.0000	MICROB	10.0000	5.0000	BLAND NP B13,595-69	H
	4.917	1.527	1.960	.0500		.0200		CHINOW.PR139B,1411-65	
	6.183	2.202	2.650	.4300		.0600		NEWMAN PR158,1310-67	
	6.829	2.547	3.000	.6200		.0500		BASSOMP.PL27B,468-68	
	7.757	3.041	3.500	.7100		.0400		BASSOMP.PL27B,468-68	
	10.496	4.501	4.970	1.1200		.0400		BASSO. NP B13,189-69	
	10.552	4.531	5.000	1.1200		.0650		PAPE LHEB-69	
	16.539	7.721	8.200	1.1600		.0590		PAPE LHEB-69	
	19.912	9.518	10.000	1.1150		ERROR NOT GIVEN		COLLEY,NPB26,71-71	
THRESHOLD	3.43	.73	1.13					9 DATA POINTS LISTED	
..... REACTION 63									
PK+PI+PI-PIO(NON RESONANT)	6.829	2.547	3.000	.1670		.0870		PAPE LHEB96-68	
	7.757	3.041	3.500	.2030		.0570		PAPE LHEB96-68	
	10.552	4.531	5.000	.4080		.0760		PAPE LHEB96-68	
THRESHOLD	3.42	.73	1.12					3 DATA POINTS LISTED	

FOOTNOTES

H=CROSS SECTIONS OBTAINED FROM COUNT OF TAU DECAYS
A1=CROSS SECT.OBTAINED COMBINING RESULTS FROM 2 EXPTS,IN DE AND IN HYDROGEN

K+P

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -		REFERENCE	FOOT-NOTES
..... REACTION 64										
PK+PIO	2.786	.392	.735	.0300		.0100			FILIPP. NC51A,1053-67	
	2.864	.434	.785	.1100		.0100			FILIPP. NC51A,1053-67	
	2.904	.455	.810	.2200		.0500			FISK,358,CERN62	
	2.985	.498	.860	.4000		.1000			BROWN,715,DUB64	
	2.992	.501	.864	.3700		.0300			BLAND,NPB13,595-69	H
	3.051	.533	.900	.4300		.0500			GIACOME. NPB20,301-70	
	3.150	.586	.960	.9000		.3000			BROWN,715,DUB64	
	3.165	.594	.969	.7900		.0800			BLAND,NPB13,283-69	H
	3.167	.595	.970	.6800		.0700			GIACOME. NPB20,301-70	
	3.319	.676	1.060	1.1100		.0800			GIACOME. NPB20,301-70	
	3.438	.739	1.130	1.4600		.1100			GIACOME. NPB20,301-70	
	3.559	.804	1.200	2.0000		.2000			BLAND PRL17,939-66	
	3.571	.810	1.207	1.9500		.1600			BLAND,NPB13,595-69	H
	3.577	.813	1.210	1.8200		.1000			GIACOME. NPB20,301-70	
	3.646	.850	1.250	1.9900		.0900			GIACOME. NPB20,301-70	
	3.769	.916	1.320	1.9000		.0800			GIACOME. NPB20,301-70	
	3.839	.953	1.360	2.8000		.7000			BROWN,715,DUB64	
	3.875	.972	1.380	1.9900		.0800			GIACOME. NPB20,301-70	
	3.999	1.038	1.450	1.9500		.2000			BETTINI PL16,83-65	
	4.052	1.066	1.480	2.0000		.1000			GIACOME. NPB20,301-70	
	4.231	1.162	1.580	.9000		.3000			BROWN,715,DUB64	
	4.917	1.527	1.960	2.0000		.3000			CHINOW.PR139B,1411-65	
	6.774	2.517	2.970	1.3000		.2000			SALLST.NC49A,348-67	
	6.829	2.547	3.000	1.2300		.1600			HENRY PC-68	
	7.757	3.041	3.500	1.3200		.0700			BASSCMP.PL27B,468-68	
	9.806	4.133	4.600	.8000		.2000			FU,NPB28,528-71	
THRESHOLD	2.47	.22	.52						26 DATA POINTS LISTED	
..... REACTION 65										
PK+PIO (NON RESONANT)	2.992	.501	.864	.1700		.0800			BLAND NP B13,595-69	H
	3.165	.594	.969	.3700		.1100			BLAND NP B13,595-69	H
	3.150	.586	.960	.5000		ERROR	NOT GIVEN		BOWLER UCRL16370-65	
	3.559	.804	1.200	.3000		ERROR	NOT GIVEN		BOWLER UCRL16370-65	
	3.571	.810	1.207	.2000		.1400			BLAND NP B13,595-69	H
	7.757	3.041	3.500	.6700		.1000			DE BAERE NC51A,401-67	
THRESHOLD	2.47	.22	.52						6 DATA POINTS LISTED	
..... REACTION 66										
PK+K+K-	7.757	3.041	3.500	7.5000	MICROB	3.0000			PAPE LHEB96-68	
	10.552	4.531	5.000	.0150		.0040			PAPE LHEB-69	
	16.539	7.721	8.200	.0270		.0100			PAPE LHEB-69	
THRESHOLD	5.86	2.03	2.47						3 DATA POINTS LISTED	
..... REACTION 67										
PK+K+K-PIO	7.757	3.041	3.500	1.0000	MICROB	1.0000			PAPE LHEB96-68	
	10.552	4.531	5.000	8.0000	MICROB	5.0000			PAPE LHEB-69	
	16.539	7.721	8.200	.0450		.0120			PAPE LHEB-69	
THRESHOLD	6.55	2.40	2.85						3 DATA POINTS LISTED	
..... REACTION 68										
PK+K+K-ZO	7.757	3.041	3.500	1.0000	MICROB	1.0000			PAPE LHEB96-68	
THRESHOLD	7.29	2.79	3.25							
..... REACTION 69										
PK+K+KOPI-PIO	10.552	4.531	5.000	4.0000	MICROB	4.0000			PAPE LHEB-69	
THRESHOLD	7.29	2.79	3.25							
..... REACTION 70										
PK+K-KOPI+	10.552	4.531	5.000	.0180		.0080			PAPE LHEB-69	
THRESHOLD	6.55	2.40	2.85							
..... REACTION 71										
PK+K-KOPI+PIO	10.552	4.531	5.000	7.0000	MICROB	5.0000			PAPE LHEB-69	
THRESHOLD	7.29	2.79	3.25							
..... REACTION 72										
PK+KOKO	6.829	2.547	3.000	2.0000	MICROB	2.0000			PAPE LHEB96-68	
	7.757	3.041	3.500	6.0000	MICROB	6.0000			PAPE LHEB96-68	
	7.831	3.080	3.540	.0194		.0044			BISHOP,NPB23,547-70	
	10.552	4.531	5.000	.0120		.0060			PAPE LHEB-69	
THRESHOLD	5.86	2.03	2.47						4 DATA POINTS LISTED	
..... REACTION 73										
(P/N)KOMPI	6.774	2.517	2.970	.5000		ERROR	NOT GIVEN		FERRO-LUZZI,182,SIE63	
THRESHOLD	2.05	0.00	0.00							
..... REACTION 74										
PKOPI+	2.786	.392	.735	.1300		.0100			FILIPP. NC51A,1053-67	
	2.864	.434	.785	.3400		.0300			FILIPP. NC51A,1053-67	
	2.904	.455	.810	.6400		.0800			FISK,358,CERN62	
	2.969	.489	.850	.9200		.2000			BOWLER A-92 CXF65	
	2.992	.501	.864	1.1900		.0700			BLAND,NPB13,595-69	H
	3.051	.533	.900	1.4300		.0900			GIACOME. NPB20,301-70	
	3.067	.542	.910	2.1000		.2000			KEHOE PRL11,93-63	
	3.165	.594	.969	2.5600		.1900			BLAND,NPB13,595-69	H
	3.167	.595	.970	2.8200		.1700			GIACOME. NPB20,301-70	
	3.319	.676	1.060	4.0600		.2000			GIACOME. NPB20,301-70	
	3.421	.730	1.120	4.2000		.4000			BERLEY CRAS255,890-62	
	3.438	.739	1.130	4.8100		.2800			GIACOME. NPB20,301-70	
	3.455	.749	1.140	4.6000		.3000			BOLDT PR133B,220-64	
	3.559	.804	1.200	5.1000		.3000			BLAND PRL17,939-66	

FOOTNOTES

H=CROSS SECTIONS OBTAINED FROM COUNT OF TAU DECAYS

********** K+P **********

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 74										
PKOPI+										
(CONTINUATION)	3.571	.810	1.207		5.4600		.3800		BLAND,NPB13,595-69	H
	3.577	.813	1.210		5.1700		.2000		GIACOME. NPB20,301-70	
	3.646	.850	1.250		5.2200		.1400		GIACOME. NPB20,301-70	
	3.769	.916	1.320		5.6000		.1400		GIACOME. NPB20,301-70	
	3.839	.953	1.360		7.7000		1.6000		BROWN,715,DUB64	
	3.852	.960	1.367		5.3600		.3300		BLAND NP B13,595-69	H
	3.875	.972	1.380		5.4000		.1300		GIACOME. NPB20,301-70	
	3.999	1.038	1.450		4.9500		.3000		BETTINI PL16,83-65	
	4.052	1.066	1.480		5.3400		.1800		GIACOME. NPB20,301-70	
	4.239	1.166	1.585		5.0000		.4000		BLAND NP B13,595-69	H
	4.266	1.181	1.600		4.8800		.5200		BOWLER A-92 OXF65	
	4.917	1.527	1.960		4.6000		.6000		GOLDHAB. PR142,913-66	
	5.465	1.820	2.260		2.6200		.3000		BCMSE PR158,1298-67	
	5.539	1.859	2.300		3.0000		.3000		GOLDHAB. PRL15,737-65	
	6.183	2.202	2.650		2.7000		.3000		NEWMAN PR158,1310-67	
	6.774	2.517	2.970		2.1000		.2000		BASSO. NP B16,125-70	
	6.778	2.519	2.972		2.7000		.3000		SALLST.NC49A,348-67	
	6.829	2.547	3.000		2.1000		.3000		BASSCMP.PL27B,468-68	
	7.757	3.041	3.500		1.8500		.1000		BASSCMP.PL27B,468-68	
	7.831	3.080	3.540		1.3880		.0290		BISHOP NPB9,403-69	
	9.806	4.133	4.600		1.0600		.1000		FU,NPB28,528-71	
	10.496	4.501	4.970		.9400		.0700		BASSO. NP B13,189-69	
	16.633	7.771	8.250		.4000		.1000		CB COLL VIENNA445-68	
	18.038	8.520	9.000		.2750		.0410		LIND NPB14,1-69	
	19.912	9.518	10.000		.2660		.0320		BARNHAM,NPB28,171-71	
	24.974	12.216	12.700		.1900		.0300		FORMAN BAPS12,540-67	
THRESHOLD	2.47	.22	.52						40 DATA POINTS LISTED	

FIT OF SIGMA AGAINST PLAB GEV/C
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6 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .98
K = 16.28 +- 7.75 N = -1.79 +- .25

..... REACTION 75										
PKOPI+ (NON RESONANT)	2.786	.392	.735		.0800		.0600		BLAND,NPB13,595-69	
	2.864	.434	.785		.1500		.0400		BLAND,NPB13,595-69	
	2.985	.498	.860		0.0000	MICROB	ERROR NOT GIVEN		BOWLER UCRL16370-65	$
	2.992	.501	.864		.2900		.1200		BLAND NP B13,595-69	H
	3.150	.586	.960		.5000		ERROR NOT GIVEN		BOWLER UCRL16370-65	
	3.165	.594	.969		.1500		.1900	.1500	BLAND NP B13,595-69	H
	3.455	.749	1.140	U	.6000				BOLDT PR133B,220-64	
	3.559	.804	1.200		0.0000	MICROB	ERROR NOT GIVEN		BOWLER UCRL16370-65	$
	3.571	.810	1.207		.2500		.3000		BLAND NP B13,595-69	H
	3.852	.960	1.367		0.0000	MICROB	270.0000		BLAND NP B13,595-69	$
	4.231	1.162	1.580		.3000		ERROR NOT GIVEN		BOWLER UCRL16370-65	
	4.239	1.166	1.585		.2500		.3000		BLAND NP B13,595-69	H
	6.829	2.547	3.000		.5200		.1000		PAPE LHEB96-68	
	7.757	3.041	3.500		.3600		.0400		PAPE LHEB96-68	
	9.806	4.133	4.600		.2000		.1100		FU,UCRL-18417-70	
	19.912	9.518	10.000		.0470		.0080		BARNHAM,NPB28,171-71	
THRESHOLD	2.46	.22	.52						16 DATA POINTS LISTED	
..... REACTION 76										
PKOPI+PI+PI+PI-PI-	7.757	3.041	3.500		8.0000	MICROB	5.0000		PAPE LHEB96-68	
	10.552	4.531	5.000		.0900		.0150		DE BAERE,NPB22,131-70	
	16.539	7.721	8.200		.1100		.0190		PAPE LHEB-69	
THRESHOLD	4.55	1.33	1.76						3 DATA POINTS LISTED	
..... REACTION 77										
PKOPI+PI+PI+PI-PI-PIO	7.757	3.041	3.500		2.0000	MICROB	2.0000		PAPE LHEB96-68	
	10.552	4.531	5.000		6.0000	MICROB	4.0000		PAPE LHEB-69	
THRESHOLD	5.16	1.66	2.09						2 DATA POINTS LISTED	
..... REACTION 78										
PKOPI+PI+PI-	4.239	1.166	1.585		6.0000	MICROB	15.0000	4.0000	BLAND NP B13,595-69	
	4.917	1.527	1.960		.0200		.0100		CHINOW.PR139B,1411-65	
	6.183	2.202	2.650		.1900		.0500		NEWMAN PR158,1310-67	
	6.829	2.547	3.000		.3500		.0400		BASSCMP.PL27B,468-68	
	7.757	3.041	3.500		.4400		.0400		BASSCMP.PL27B,468-68	
	7.831	3.080	3.540		.4500		.0390		ERWIN NPB9,364-69	
	10.496	4.501	4.970		.6200		.0400		BASSO. NP B13,189-69	
	16.539	7.721	8.200		.5840		.0420		PAPE LHEB-69	
	19.912	9.518	10.000		.3780		.0750		CCLLEY,NPB26,71-71	
	24.974	12.216	12.700		.3000		ERROR NOT GIVEN		FARBER BAPS14,574-69	
THRESHOLD	3.43	.73	1.13						10 DATA POINTS LISTED	
..... REACTION 79										
PKOPI+PI+PI-(NON RESONANT)	6.829	2.547	3.000		.0910		.0630		PAPE LHEB96-68	
	7.757	3.041	3.500		.1760		.0700		PAPE LHEB96-68	
	10.552	4.531	5.000		.1960		.0620		PAPE LHE)96-68	
THRESHOLD	3.42	.73	1.12						3 DATA POINTS LISTED	
..... REACTION 80										
PKOPI+PI+PI-GAM	7.757	3.041	3.500		8.0000	MICROB	5.0000		GOSHAW,WIS67	
	7.831	3.080	3.540		8.0000	MICROB	5.0000		ERWIN NPB9,364-69	
THRESHOLD	3.43	.73	1.13						2 DATA POINTS LISTED	
..... REACTION 81										
PKOPI+PI+PI-PIO	6.183	2.202	2.650		.0400		.0400		NEWMAN PR158,1310-67	
	6.829	2.547	3.000		.0780		.0230		PAPE LHEB96-68	
	7.757	3.041	3.500		.1530		.0160		PAPE LHEB96-68	
	7.831	3.080	3.540		.1600		.0190		ERWIN NPB9,364-69	
	10.496	4.501	4.970		.6300		.0500		BASSO. NP B13,189-69	
	19.912	9.518	10.000		.8100		.1600		CCLLEY,NPB26,71-71	
	24.974	12.216	12.700		.4000		ERROR NOT GIVEN		FARBER BAPS14,574-69	
THRESHOLD	3.97	1.02	1.43						7 DATA POINTS LISTED	

FOOTNOTES

H=CROSS SECTIONS OBTAINED FROM COUNT OF TAU DECAYS
$=DATA POINT NOT USED IN FITTING OR PLOTTING
U=UPPER LIMIT

K+P

		S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 82											
PKOPI+PI+PI-PIO (NON RES.)		7.831	3.080	3.540		.0510		.0090		ERWIN NPB9,364-69	
	THRESHOLD	3.94	1.01	1.42							
..... REACTION 83											
PKOPI+PI+PI-ZO		7.757	3.041	3.500		7.0000	MICROB	4.0000		GOSHAW,WIS67	
		10.552	4.531	5.000		.1200		.0150		PAPE LHEB-69	
	THRESHOLD	4.55	1.33	1.76						2 DATA POINTS LISTED	
..... REACTION 84											
PKOPI+PIO		3.852	.960	1.367		.0600		.0180		BLAND,NPB13,595-69	H
		3.999	1.038	1.450		.0800		.0500		BETTINI PL16,83-65	
		4.239	1.166	1.585		.3200		.0700		BLAND NP B13,595-69	H
		4.917	1.527	1.960		1.3000		.2000		CHINOW.PR139B,1411-65	
		6.183	2.202	2.650		1.9000		.2000		NEWMAN PR158,1310-67	
		6.829	2.547	3.000		2.1000		.3000		BASSCMP.PL27B,468-68	
		7.757	3.041	3.500		2.5000		.3000		BASSCMP.PL27B,468-68	
		7.831	3.080	3.540		1.8310		.0340		BISHOP NPB9,403-69	
		10.496	4.501	4.970		1.5000		.2000		DE BAERE NC61A,397-69	
		10.496	4.501	4.970		1.6800		.1000		BASSO. NP B13,189-69	
		11.487	5.028	5.500		1.4500		.1500		BOMSE PRL20,1519-68	
		16.165	7.521	8.000		.9600		.1200		JONGEJANS PC-68	
		19.912	9.518	10.000		1.0990		.2200		COLLEY,NPB26,71-71	
		24.974	12.216	12.700		.5650		.0700		BERLINGHIERI CERN 68	
	THRESHOLD	2.93	.47	.83						14 DATA POINTS LISTED	
						FIT OF SIGMA AGAINST PLAB GEV/C					
						6 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .93					
						K = 8.60 +- 4.14 N = -1.04 +- .26					
..... REACTION 85											
PKOPI+PIO (NON RESONANT)		6.829	2.547	3.000		.5300		.0800		PAPE LHEB96-68	
		7.757	3.041	3.500		.6800		.0900		PAPE LHEB96-68	
	THRESHOLD	2.91	.46	.81						2 DATA POINTS LISTED	
..... REACTION 86											
PKOPI+ZO		6.829	2.547	3.000		.2200		.0300		PAPE LHEB96-68	
		7.757	3.041	3.500		.2600		.0400		PAPE LHEB96-68	
		7.831	3.080	3.540		.2380		.0330		BISHOP NPB9,403-69	
		10.552	4.531	5.000		.8000		.0600		PAPE LHEB-69	
	THRESHOLD	3.43	.73	1.13						4 DATA POINTS LISTED	
..... REACTION 87											
PKO3PI+2PI-ZO		10.552	4.531	5.000		.0180		.0120		DE BAERE,NPB22,131-70	
	THRESHOLD	5.82	2.01	2.45							
..... REACTION 88											
PETK+		6.829	2.547	3.000		.0170		.0120		PAPE LHEB96-68	
		7.757	3.041	3.500		.0130		.0070		PAPE LHEB96-68	
		10.552	4.531	5.000		8.0000	MICROB	9.0000	8.0000	PAPE LHEB96-68	
	THRESHOLD	3.93	1.00	1.41						3 DATA POINTS LISTED	
..... REACTION 89											
PETK+PI+PI-		10.552	4.531	5.000	U	.0130				DE BAERE,NPB22,131-70	
	THRESHOLD	5.12	1.63	2.07							
..... REACTION 90											
PETKOPI+		7.757	3.041	3.500		.1130		.0240		GOSHAW,WISC67	
	THRESHOLD	4.50	1.31	1.73							
..... REACTION 91											
PETKOPI+=PKOPI+ZO		7.831	3.080	3.540		.0491		.0067		BISHOP NPB9,403-69	
	THRESHOLD	4.50	1.31	1.73							
..... REACTION 92											
PETKOPI+=PKOPI+PI+PI-PIO		7.831	3.080	3.540		.1130		.0240		ERWIN NPB9,364-69	
	THRESHOLD	4.50	1.31	1.73							
..... REACTION 93											
PRHOKOPI+		19.912	9.518	10.000		.1050		.0250		BARNHAM HEIC67	
	THRESHOLD	5.44	1.81	2.25							
..... REACTION 94											
PRHOKOPI+PIO		19.912	9.518	10.000		.0900		.0200		BARNHAM HEIC67	
	THRESHOLD	6.11	2.16	2.61							
..... REACTION 95											
POMK+		6.829	2.547	3.000		.0990		.0250		PAPE LHEB96-68	
		7.757	3.041	3.500		.1140		.0180		PAPE LHEB96-68	
		10.552	4.531	5.000		.1150		.0190		PAPE LHEB96-68	
	THRESHOLD	4.91	1.52	1.95						3 DATA POINTS LISTED	
..... REACTION 96											
POMK+=PK+PI+PI-PIO		6.829	2.547	3.000		.1000		ERROR NOT GIVEN		FERRO-L. PL12,255-64	O
	THRESHOLD	4.91	1.52	1.95							
..... REACTION 97											
POMK+PI+PI-=PK+2PI+2PI-PIO		10.552	4.531	5.000		.0346		.0150		DE BAERE,NPB22,131-70	
	THRESHOLD	6.23	2.23	2.68							

FOOTNOTES

H=CROSS SECTIONS OBTAINED FROM COUNT OF TAU DECAYS
U=UPPER LIMIT
O=ORDER OF MAGNITUDE

K+P

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 98									
POMKOPI+	7.757	3.041	3.500	.0920		.0150		GOSHAW,WIS67	
THRESHOLD	5.55	1.86	2.30						
..... REACTION 99									
POMKOPI+=PKOPI+ZO	7.831	3.080	3.540	.0640		.0350		BISHOP NPB9,403-69	
THRESHOLD	5.55	1.86	2.30						
..... REACTION 100									
POMKOPI+=PKOPI+PI+PI-PIO	7.831	3.080	3.540	.0920		.0150		ERWIN NPB9,364-69	
	19.912	9.518	10.000	.0450		.0150		BARNHAM HEID67	
THRESHOLD	5.57	1.88	2.32					2 DATA POINTS LISTED	
..... REACTION 101									
PK*+890	3.455	.749	1.140	1.3500		.4500		BOLDT PR133B,220-64	*
	3.559	.804	1.200	1.5300		.1800		BLAND PRL17,939-66	*
	3.999	1.038	1.450	2.4000		.3000		BETTINI PL16,83-65	
	4.266	1.181	1.600	2.7450		ERROR NOT GIVEN		BOWLER A-92 CXF65	*
	4.917	1.527	1.960	1.9500		.3000		GOLDHAB. PR142,913-66	*
	5.539	1.859	2.300	1.9500		.3000		GOLDHAB. PRL15,737-65	*
	6.774	2.517	2.970	1.2300		.1800		BASSO. NP B16,125-70	
	7.757	3.041	3.500	.9900		.0800		PAPE LHEB96-68	
	9.806	4.133	4.600	.5800		.0400		FU,NPB28,528-71	
	10.552	4.531	5.000	.4600		.1200		HENRY PC-66	*
	19.912	9.518	10.000	.1280		.0300		BGO COLL.,I21,CERN68	*
	24.974	12.216	12.700	.0900		.0200		BERLIN. PRL18,1087-67	*
THRESHOLD	3.34	.69	1.07					12 DATA POINTS LISTED	
..... REACTION 102									
PK*+890=PK+PIO	3.559	.804	1.200	.6600		.1200		BLAND PRL17,939-66	
	3.571	.810	1.207	.6800		.1100		BLAND NP B13,595-69	H
	6.829	2.547	3.000	.4400		.0900		SALLSTROM AF37,463-68	
	7.757	3.041	3.500	.3600		.0400		DE BAERE NC51A,401-67	
THRESHOLD	3.34	.69	1.07					4 DATA POINTS LISTED	
..... REACTION 103									
PK*+890=PKOPI+	3.455	.749	1.140	.9000		.3000		BOLDT PR133B,220-64	
	3.559	.804	1.200	.8700		.1400		BLAND PRL17,939-66	
	3.571	.810	1.207	1.0600		.2000		BLAND NP B13,595-69	H
	3.852	.960	1.367	1.7200		.2400		BLAND NP B13,595-69	H
	3.999	1.038	1.450	2.1000		.2000		CHADWICK PL6,309-63	
	4.239	1.166	1.585	2.1500		.3500		BLAND NP B13,595-69	H
	4.266	1.181	1.600	1.8300		ERROR NOT GIVEN		BOWLER A-92 CXF65	
	4.917	1.527	1.960	1.3000		.2000		GOLDHAB. PR142,913-66	
	5.465	1.820	2.260	1.1000		.2000		BOMSE PR158,1298-67	
	5.539	1.859	2.300	1.3000		.2000		GOLDHAB. PRL15,737-65	
	6.774	2.517	2.970	.8200		.1200		BASSOMP. NPB16,125-70	
	7.757	3.041	3.500	.6500		.0700		DE BAERE NC51A,401-67	
	9.806	4.133	4.600	.3800		.0300		FU,NPB28,528-71	
	10.552	4.531	5.000	.3100		.0800		HENRY PC-66	
	18.038	8.520	9.000	.0970		.0230		LIND NP B148,1-69	
	19.912	9.518	10.000	.0960		.0140		BARNHAM,NPB28,171-71	
	24.974	12.216	12.700	.0510		.0120		BERLINGHI.NPB8,333-68	
THRESHOLD	3.34	.69	1.07					17 DATA POINTS LISTED	

FIT OF SIGMA AGAINST PLAB GEV/C

5 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .98

K = 6.67 +- 4.00 N = -1.88 +- .33

..... REACTION 104									
PK*+890PI+PI-	6.829	2.547	3.000	.0560		.0490	.0350	PAPE LHEB96-68	
	7.757	3.041	3.500	9.0000	MICROB	31.0000	9.0000	PAPE LHEB96-68	
	10.552	4.531	5.000	.1930		.0400		PAPE LHEB96-68	
	19.912	9.518	10.000	.0750		.0250		BARNHAM HEID67	
THRESHOLD	4.44	1.28	1.70					4 DATA POINTS LISTED	
..... REACTION 105									
PK*+890PI+PI-=PK+PI+PI-PIO	6.829	2.547	3.000	.2270		ERROR NOT GIVEN		FERRO-LUZZI,569,DUB64	
THRESHOLD	4.44	1.27	1.69						
..... REACTION 106									
PK*+890PI+PI-=PKOPI+PI+PI-	6.829	2.547	3.000	.0310		ERROR NOT GIVEN		FERRO-LUZZI,569,DUB64	
	7.831	3.080	3.540	.2800		.0700		ERWIN NPB9,364-69	
THRESHOLD	4.44	1.27	1.69					2 DATA POINTS LISTED	
..... REACTION 107									
PK*+890PI+PI- (NON N*)	6.829	2.547	3.000	0.0000	MICROB	ERROR NOT GIVEN		FERRO-LUZZI,569,DUB64	$
THRESHOLD	4.44	1.27	1.69						
..... REACTION 108									
PK*+890PI+PI-PIO	19.912	9.518	10.000	.1400		.0250		BARNHAM HEID67	
THRESHOLD	5.05	1.60	2.03						
..... REACTION 109									
PK*+890PIO	6.829	2.547	3.000	.4900		.1100		PAPE LHEB96-68	
	7.757	3.041	3.500	.4900		.1100		PAPE LHEB96-68	
THRESHOLD	3.87	.97	1.38					2 DATA POINTS LISTED	
..... REACTION 110									
PK*0890PI+PIO=PK+PI+PI-PIO	10.552	4.531	5.000	.1270		ERROR NOT GIVEN		FERRO-LUZZI,569,DUB64	
THRESHOLD	4.41	1.26	1.68						

FOOTNOTES

*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
H=CROSS SECTIONS OBTAINED FROM COUNT OF TAU DECAYS
$=DATA POINT NOT USED IN FITTING OR PLOTTING

K+P

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 111									
PK*0890PI+PI0 (NON N*)	6.829	2.547	3.000	.0780		ERROR NOT GIVEN		FERRO-LUZZI,569,DUB64	9
THRESHOLD	4.41	1.26	1.68						
..... REACTION 112									
PK**890PI0=PK0PI+PI0	6.829	2.547	3.000	.2900		.0600		DE BAERE NC49A,373-67	
	7.757	3.041	3.500	.4300		.0700		DE BAERE NC49A,373-67	
	10.552	4.531	5.000	.3800		.0700		DE BAERE NC49A,373-67	
THRESHOLD	3.87	.97	1.38					3 DATA POINTS LISTED	
..... REACTION 113									
PK*0890PI+	6.829	2.547	3.000	.3100		.0800		PAPE LHEB96-68	
	7.757	3.041	3.500	.4000		.0700		PAPE LHEB96-68	
	10.552	4.531	5.000	.5100		.0600		PAPE LHEB96-68	
THRESHOLD	3.87	.97	1.38					3 DATA POINTS LISTED	
..... REACTION 114									
PK*0890PI+=PK+PI+PI-	5.961	2.084	2.530	.2500		.0400		ABRAMS,PR1,2433-70	
	6.386	2.310	2.760	.2900		.0400		ABRAMS,PR1,2433-70	
	7.200	2.744	3.200	.3400		.0500		ABRAMS,PR1,2433-70	
	11.487	5.028	5.500	.4100		ERROR NOT GIVEN		LUSTE BAPS13,114-68	
THRESHOLD	3.87	.97	1.38					4 DATA POINTS LISTED	
..... REACTION 115									
PK*0890PI+=PK0PI+PI0	6.829	2.547	3.000	.2100		.0400		DE BAERE NC49A,373-67	
	7.757	3.041	3.500	.2400		.0500		DE BAERE NC49A,373-67	
	11.487	5.028	5.500	.2300		.0500		DE BAERE NC49A,373-67	
THRESHOLD	3.87	.97	1.38					3 DATA POINTS LISTED	
..... REACTION 116									
PK*0890PI+PI+PI-	7.757	3.041	3.500	5.0000	MICROB	ERROR NOT GIVEN		PAPE LHEB96-68	
	10.552	4.531	5.000	.0990		ERROR NOT GIVEN		PAPE LHEB96-68	
	19.912	9.518	10.000	.0700		.0150		BARNHAM HEIC67	
THRESHOLD	5.05	1.60	2.03					3 DATA POINTS LISTED	
..... REACTION 117									
PK*02PI+PI-(K*0=K+PI-)	10.552	4.531	5.000	.0260		.0060		DE BAERE,NPB22,131-70	
THRESHOLD	4.44	1.28	1.70						
..... REACTION 118									
PK*02PI+PI-PI0(K*0=K+PI-)	10.552	4.531	5.000	.0179		.0050		DE BAERE,NPB22,131-70	
THRESHOLD	4.90	1.52	1.95						
..... REACTION 119									
PK*0890PI+PI0	6.829	2.547	3.000	.0180		.0540	.0180	PAPE LHEB96-68	
	7.757	3.041	3.500	.0900		.0530		PAPE LHEB96-68	
	10.552	4.531	5.000	.0240		.0400	.0240	PAPE LHEB96-68	
THRESHOLD	4.44	1.28	1.70					3 DATA POINTS LISTED	
..... REACTION 120									
(P/N)K*	3.571	.810	1.207	1.7400		.2300		BLAND NP B13,595-69	H
	3.852	.960	1.367	2.6000		.3000		BLAND NP B13,595-69	H
	4.239	1.166	1.585	3.2000		.4000		BLAND NP B13,595-69	H
THRESHOLD	3.38	.71	1.10					3 DATA POINTS LISTED	
..... REACTION 121									
PPHIK+	7.831	3.080	3.540	6.0000	MICROB	1.5000		BISHOP,NPB23,547-70	
THRESHOLD	6.01	2.11	2.56						
..... REACTION 122									
PPHIK+=PK+K+K-	24.974	12.216	12.700	.0150		.0040		BERLING.PRL23,42-69	
THRESHOLD	6.01	2.11	2.56						
..... REACTION 123									
PA1+K0=PK0PI+PI+PI-	24.974	12.216	12.700	.0200		ERROR NOT GIVEN		BERLING.PRL23,42-69	O
THRESHOLD	6.41	2.32	2.77						
..... REACTION 124									
PA10K+=PK+PI+PI-PI0	24.974	12.216	12.700	.0400		ERROR NOT GIVEN		BERLING.PRL23,42-69	O
THRESHOLD	6.41	2.32	2.77						
..... REACTION 125									
PK**1270=P(KPIPI)+	24.974	12.216	12.700	.5000		.1000		BERLIN. UR-875-218-67	
THRESHOLD	4.88	1.51	1.94						
..... REACTION 126									
PK**1320	7.831	3.080	3.540	.1370		.0200		BISHOP NPB9,403-69	
	25.030	12.246	12.730	.4400		.0800		CERN 68-7	
THRESHOLD	5.10	1.62	2.06					2 DATA POINTS LISTED	
..... REACTION 127									
PK**1320=PK+PI+PI-	24.974	12.216	12.700	.1800		.0400		BERLIN. PRL18,1087-67	
THRESHOLD	5.10	1.62	2.06						
..... REACTION 128									
PK**1320=PK(+,0)PI+PI(-,0)	24.974	12.216	12.700	.1900		.0400		FARBER,PR1,78-70	
THRESHOLD	5.11	1.63	2.06						

FOOTNOTES

9=FINAL STATE IS PK+PI+PI-PI0
H=CROSS SECTIONS OBTAINED FROM COUNT OF TAU DECAYS
O=ORDER OF MAGNITUDE

K+P

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 129										
PK*+1320=PK0PI+	7.831	3.080	3.540	U	9.0000	MICROB			BISHOP NPB9,403-69	
	24.974	12.216	12.700	U	.0100				FARBER,PR1,78-70	
THRESHOLD	5.10	1.62	2.06						2 DATA POINTS LISTED	
..... REACTION 130										
PK*+1320=PK0PI+PI0	25.030	12.246	12.730		.2100		.0500		CERN 68-7	
THRESHOLD	5.10	1.62	2.06							
..... REACTION 131										
PK*+1320=P(K*890PI)+	7.831	3.080	3.540		.1180		.0130		BISHOP NPB9,403-69	
THRESHOLD	5.11	1.63	2.06							
..... REACTION 132										
PK*+1320=PRH+K0	7.831	3.080	3.540		.0193		.0122		BISHOP NPB9,403-69	
THRESHOLD	5.10	1.62	2.06							
..... REACTION 133										
PK*+1320=P0MK+	24.974	12.216	12.700		.0100		.0060		FARBER,PR1,78-70	
THRESHOLD	5.10	1.62	2.06							
..... REACTION 134										
PK*+1320PI0=PK0PI+PI0	7.831	3.080	3.540	U	8.0000	MICROB			BISHOP NPB9,403-69	
THRESHOLD	5.75	1.97	2.42							
..... REACTION 135										
PK*01320PI+=PK0PI+PI0	7.831	3.080	3.540	U	.0170				BISHOP NPB9,403-69	
THRESHOLD	5.75	1.97	2.42							
..... REACTION 136										
PK*01320PI+=PETK0PI+	7.831	3.080	3.540	U	3.0000	MICROB			BISHOP NPB9,403-69	
THRESHOLD	5.75	1.97	2.42							
..... REACTION 137										
PK*01320PI+=P0MK0PI+	7.831	3.080	3.540	U	3.0000	MICROB			BISHOP NPB9,403-69	
THRESHOLD	5.75	1.97	2.42							
..... REACTION 138										
PK*01320PI+=PK*+890PI-PI+	7.831	3.080	3.540		.0404		.0070		BISHOP NPB9,403-69	
THRESHOLD	5.75	1.97	2.42							
..... REACTION 139										
PK*+1400	7.757	3.041	3.500		.1000		.0200		PAPE LHEB96-68	
	7.831	3.080	3.540		.2430		.0200		BISHOP NPB9,403-69	
	9.806	4.133	4.600		.0900		.0300		FU,NPB28,528-71	
	10.552	4.531	5.000		.2900		.0600		BASSOMP. VIENNA68	*
	16.614	7.761	8.240		.1600		.0400		BASSOMP. VIENNA68	*
	19.912	9.518	10.000		.1150		.0440		BGO COLL.,121,CERN68	*
	24.974	12.216	12.700		.0740		.0240		BERLIN. UR-875-218-67	*
THRESHOLD	5.47	1.82	2.26						7 DATA POINTS LISTED	
FIT OF SIGMA AGAINST PLAB GEV/C										
5 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .43										
K = .84 +- 1.11 N = -.86 +- .67										
..... REACTION 140										
PK*+1400=PK+PI0	7.757	3.041	3.500		.0400		.0100		DE BAERE NC51A,401-67	
THRESHOLD	5.47	1.82	2.26							
..... REACTION 141										
PK*+1400=PK0PI+	7.757	3.041	3.500		.0600		.0200		DE BAERE NC51A,401-67	
	7.831	3.080	3.540		.1190		.0130		BISHOP NPB9,403-69	
	9.806	4.133	4.600		.0600		.0200		FU,NPB28,528-71	
	10.496	4.501	4.970		.1110		.0220		BASSO. NP B13,189-69	
	18.038	8.520	9.000		.0360		.0140		LIND NP B148,1-69	
	19.912	9.518	10.000		.0510		.0090		BARNHAM,NPB28,171-71	
	24.974	12.216	12.700		.0200		.0050		BERLINGHI.NPB8,333-68	
THRESHOLD	5.47	1.82	2.26						7 DATA POINTS LISTED	
FIT OF SIGMA AGAINST PLAB GEV/C										
5 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .56										
K = .74 +- .84 N = -1.28 +- .54										
..... REACTION 142										
PK*+1400=P(K*890PI)+	7.831	3.080	3.540		.1110		.0130		BISHOP NPB9,403-69	
THRESHOLD	5.48	1.83	2.27							
..... REACTION 143										
PK*+1400=PRH+K0	7.831	3.080	3.540		.0132		.0070		BISHOP NPB9,403-69	
THRESHOLD	5.47	1.82	2.26							
..... REACTION 144										
PK*+1400=PRH0K+	10.496	4.501	4.970	U	.0100				BASSO. NP B13,189-69	
THRESHOLD	5.47	1.82	2.26							
..... REACTION 145										
PK*+1400=P0MK+	10.496	4.501	4.970	U	.0190				BASSO. NP B13,189-69	
THRESHOLD	5.47	1.82	2.26							

FOOTNOTES

U=UPPER LIMIT
*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS

K+P

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 146										
PK*+1400=PK*0890PI+	10.496	4.501	4.970		.0780		.0130		BASSO. NP B13,189-69	
THRESHOLD	5.47	1.82	2.26							
..... REACTION 147										
PK*+1400PIO=PK0PI+PIO	7.831	3.080	3.540		.0159		.0092		BISHOP NPB9,403-69	
THRESHOLD	6.14	2.18	2.63							
..... REACTION 148										
PK*01400PI+=PK+PI+PI-	7.200	2.744	3.200		.0550		.0300		ABRAMS,PR1,2433-70	
	10.496	4.501	4.970		.0190		.0120		BASSC. NP B13,189-69	
THRESHOLD	6.14	2.18	2.63						2 DATA POINTS LISTED	
..... REACTION 149										
PK*01400PI+=PK0PI+PIO	7.831	3.080	3.540	U	.0100				BISHOP NPB9,403-69	
THRESHOLD	6.14	2.18	2.63							
..... REACTION 150										
PK*01400PI+=PETK0PI+	7.831	3.080	3.540	U	3.0000	MICROB			BISHOP NPB9,403-69	
THRESHOLD	6.14	2.18	2.63							
..... REACTION 151										
PK*01400PI+=POMK0PI+	7.831	3.080	3.540		.0136		.0058		BISHOP NPB9,403-69	
THRESHOLD	6.14	2.18	2.63							
..... REACTION 152										
PK*01400PI+=PK*+890PI+PI-	7.831	3.080	3.540		.0140		.0070		BISHOP NPB9,403-69	
THRESHOLD	6.14	2.18	2.63							
..... REACTION 153										
PAXI+Z0	18.038	8.520	9.000		.8000	MICROB	ERROR NOT GIVEN		SHEN PL25B,443-67	
	18.038	8.520	9.000	L	.3000	MICROB			LISSAUER,NPB18,491-70	
THRESHOLD	6.44	2.34	2.79						2 DATA POINTS LISTED	
..... REACTION 154										
NK+PI+	2.786	.392	.735		.0200		.0100		FILIPP. NC51A,1053-67	
	2.864	.434	.785		.0700		.0100		FILIPP. NC51A,1053-67	
	2.904	.455	.810		.1100		.0400		FISK,358,CERN62	
	2.985	.498	.860		.1000		.1000		BROWN,715,DUB64	
	2.992	.501	.864		.1350		.0180		BLANC,NPB13,595-69	H
	3.051	.533	.900		.3400		.0500		GIACOME. NPB20,301-70	
	3.150	.586	.960		.4000		.1000		BOWLER UCRL16370-65	
	3.150	.586	.960		.2000		.1000		BROWN,715,DUB64	
	3.165	.594	.969		.3000		.0400		BLAND,NPB13,283-69	H
	3.167	.595	.970		.5100		.0600		GIACOME. NPB20,301-70	
	3.319	.676	1.060		.6000		.0500		GIACOME. NPB20,301-70	
	3.438	.739	1.130		.8600		.0700		GIACOME. NPB20,301-70	
	3.559	.804	1.200		.5600		.1000		BLAND PRL17,939-66	
	3.571	.810	1.207		.6100		.0700		BLAND,NPB13,595-69	H
	3.577	.813	1.210		.6900		.0600		GIACOME. NPB20,301-70	
	3.646	.850	1.250		.9000		.1000		GIACOME. NPB20,301-70	
	3.769	.916	1.320		.9000		.1000		GIACOME. NPB20,301-70	
	3.839	.953	1.360		1.2000		.4000		BROWN,715,DUB64	
	3.875	.972	1.380		.8400		.1000		GIACOME. NPB20,301-70	
	3.999	1.038	1.450		1.3500		.1000		BETTINI PL16,83-65	
	4.052	1.066	1.480		.9700		.1000		GIACOME. NPB20,301-70	
	4.231	1.162	1.580		1.3000		.4000		COOK PRL7,182-61	
	4.917	1.527	1.960		1.6000		.3000		CHINOW.PR139B,1411-65	
	6.778	2.519	2.972		1.2000		.2000		SALLST.NC49A,348-67	
	6.829	2.547	3.000		1.0800		.1400		PAPE LHEB96-68	
	7.757	3.041	3.500		.8000		.1000		BASSCMP.PL27B,468-68	
	9.806	4.133	4.600		.6000		.3000		FU,NPB28,528-71	
THRESHOLD	2.48	.23	.53						27 DATA POINTS LISTED	
..... REACTION 155										
NK+PI+ (NON RESONANT)	2.992	.501	.864		.0500		.0400		BLAND NP B13,595-69	H
	3.150	.586	.960		.1000		ERROR NOT GIVEN		BOWLER UCRL16370-65	
	3.165	.594	.969		.0600		.0600		BLAND NP B13,595-69	H
	3.571	.810	1.207		.2400		.0600		BLAND NP B13,595-69	H
	6.829	2.547	3.000		1.0000		.1700		PAPE LHEB96-68	
	7.757	3.041	3.500		.7600		.1000		PAPE LHEB96-68	
THRESHOLD	2.46	.22	.52						6 DATA POINTS LISTED	
..... REACTION 156										
NK+PI+PI+PI+PI-PI-	10.552	4.531	5.000		.0150		.0030		DE BAERE,NPB22,131-70	
	16.539	7.721	8.200		.1000		.0180		PAPE LHEB-69	
THRESHOLD	4.55	1.33	1.76						2 DATA POINTS LISTED	
..... REACTION 157										
NK+PI+PI+PI+PI-PI-Z0	10.552	4.531	5.000		2.0000	MICROB	1.4000		PAPE LHEB-69	
THRESHOLD	5.83	2.01	2.46							
..... REACTION 158										
NK+PI+PI+PI-	4.917	1.527	1.960		.0100		.0060		CHINOW.PR139B,1411-65	
	6.183	2.202	2.650		.1400		.0300		NEWMAN PR158,1310-67	
	6.829	2.547	3.000		.1500		.0300		BASSCMP.PL27B,468-68	
	7.757	3.041	3.500		.1900		.0200		BASSCMP.PL27B,468-68	
	10.552	4.531	5.000		.2850		.0200		PAPE LHEB-69	
	16.539	7.721	8.200		.3770		.0340		PAPE LHEB-69	
THRESHOLD	3.44	.74	1.13						6 DATA POINTS LISTED	

FOOTNOTES

U=UPPER LIMIT
L=LOWER LIMIT
H=CROSS SECTIONS OBTAINED FROM COUNT OF TAU DECAYS

K+P

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 159										
NK+PI+PI+PI-(NON RESONANT)	6.829	2.547	3.000		.0940		.0360		PAPE LHEB96-68	
	7.757	3.041	3.500		.0640		.0340		PAPE LHEB96-68	
	10.552	4.531	5.000		.1180		.0400		PAPE LHEB96-68	
THRESHOLD	3.42	.73	1.12						3 DATA POINTS LISTED	
..... REACTION 160										
NK+PI+PI+PI-PIO	24.974	12.216	12.700		1.5000		ERROR NOT GIVEN		FARBER BAPS14,574-69	
THRESHOLD	3.98	1.03	1.44							
..... REACTION 161										
NK+PI+PI+PI-ZO	10.552	4.531	5.000		.1960		.0250		PAPE LHEB96-68	
THRESHOLD	4.55	1.33	1.76							
..... REACTION 162										
NK+PI+PIO	4.917	1.527	1.960		.3000		ERROR NOT GIVEN		CHINCW.PR139B,1411-65	
THRESHOLD	2.94	.47	.83							
..... REACTION 163										
NK+K+K-PI+	10.552	4.531	5.000		1.0000	MICROB	1.0000		PAPE LHEB-69	
THRESHOLD	6.56	2.40	2.86							
..... REACTION 164										
NK+K+KO	6.829	2.547	3.000		2.0000	MICROB	2.0000		PAPE LHEB96-68	
	7.757	3.041	3.500		4.0000	MICROB	4.0000		PAPE LHEB96-68	
	7.831	3.080	3.540		7.7000	MICROB	2.3000		BISHOP,NPB23,547-70	
	10.552	4.531	5.000		.0140		.0070		PAPE LHEB-69	
THRESHOLD	5.87	2.03	2.48						4 DATA POINTS LISTED	
..... REACTION 165										
NKOPI+PI+	3.852	.960	1.367		9.0000	MICROB	12.0000	6.0000	BLAND,NPB13,595-69	H
	3.999	1.038	1.450		.0200		.0200		BETTINI PL16,83-65	
	4.239	1.166	1.585		.0800		.0300		BLAND NP B13,595-69	H
	4.917	1.527	1.960		.3300		.1000		CHINCW.PR139B,1411-65	
	6.183	2.202	2.650		.6400		.1200		NEWMAN PR158,1310-67	
	6.829	2.547	3.000		.6000		.2000		BASSOMP.PL27B,468-68	
	7.757	3.041	3.500		.6000		.1000		BASSOMP.PL27B,468-68	
	7.831	3.080	3.540		.5060		.0170		BISHOP NPB9,403-69	
	10.496	4.501	4.970		.4000		.0500		DE BAERE NC61A,397-69	
	16.165	7.521	8.000		.3000		.0900		JONGEJANS PC-68	
	19.912	9.518	10.000		.1300		.0300		BARNHAM PC-68	
	24.974	12.216	12.700		.1500		.0300		BERLINGH.VIENNA16-68	
THRESHOLD	2.94	.47	.83						12 DATA POINTS LISTED	
..... REACTION 166										
NKOPI+PI+ (NON RESONANT)	6.829	2.547	3.000		.2200		.0600		PAPE LHEB96-68	
THRESHOLD	2.94	.47	.83							
..... REACTION 167										
NKOPI+PI+PI+PI-	6.829	2.547	3.000		9.0000	MICROB	5.5000		PAPE LHEB96-68	
	7.757	3.041	3.500		.0180		.0050		PAPE LHEB96-68	
	7.831	3.080	3.540		.0110		.0030		ERWIN NPB9,364-69	
	10.552	4.531	5.000		.0770		.0100		PAPE LHEB-69	
	19.912	9.518	10.000		.1150		.0200		BARNHAM PC-68	
THRESHOLD	3.98	1.03	1.44						5 DATA POINTS LISTED	
..... REACTION 168										
NKOPI+PI+PI+PI-ZO	10.552	4.531	5.000		.0310		.0070		PAPE LHEB-69	
THRESHOLD	5.17	1.66	2.10							
..... REACTION 169										
NKOPI+PI+ZO	6.829	2.547	3.000		.2200		.0300		PAPE LHEB96-68	
	7.757	3.041	3.500		.2600		.0400		PAPE LHEB96-68	
	10.552	4.531	5.000		.4050		.0400		PAPE LHEB-69	
THRESHOLD	3.98	1.03	1.44						3 DATA POINTS LISTED	
..... REACTION 170										
NK**890PI+	6.829	2.547	3.000		.3100		.0700		PAPE LHEB96-68	
THRESHOLD	3.88	.98	1.38							
..... REACTION 171										
NK**890PI+=NKOPI+PI+	6.829	2.547	3.000		.1900		.0400		DE BAERE NC49A,373-67	
	7.757	3.041	3.500		.1700		.0400		DE BAERE NC49A,373-67	
	10.552	4.531	5.000		.1700		.0400		DE BAERE NC49A,373-67	
	25.030	12.246	12.730		.0750		.0250		BERLINGH.,172,CERN68	
THRESHOLD	3.88	.98	1.38						4 DATA POINTS LISTED	
..... REACTION 172										
NK*0890PI+PI+	6.829	2.547	3.000		.0140		.0150	.0140	PAPE LHEB96-68	
	7.757	3.041	3.500		9.0000	MICROB	18.0000	9.0000	PAPE LHEB96-68	
	10.552	4.531	5.000		.0210		.0180		PAPE LHEB96-68	
THRESHOLD	4.45	1.28	1.70						3 DATA POINTS LISTED	
..... REACTION 173										
NK***1320=NKOPI+PI+	24.974	12.216	12.700	U	7.0000	MICROB			FARBER,PR1,78-70	
THRESHOLD	5.11	1.63	2.06							
..... REACTION 174										
N***1236=PKOPI+	6.774	2.517	2.970		.6300		.0900		BASSO. NP B16,125-70	
THRESHOLD	1.53	0.00	0.00							

FOOTNOTES

H=CROSS SECTIONS OBTAINED FROM COUNT OF TAU DECAYS
U=UPPER LIMIT

K+P

	S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 175									
N***1236K+PI+PI-PI-	7.757	3.041	3.500	.C160		ERROR NOT GIVEN		PAPE LHEB96-68	
	10.552	4.531	5.C00	.0330		.C090		DE BAERE,NPB22,131-70	
THRESHOLD	4.62	1.37	1.80		**	**		2 DATA PCINTS LISTED	
..... REACTION 176									
N***1236K+PI+PI-PI-PI0	10.552	4.531	5.000	.0490		.C17C		DE BAERE,NPB22,131-70	
THRESHOLD	5.24	1.70	2.14						
..... REACTION 177									
N***1236K+PI-	5.961	2.084	2.530	.3900		.0600		ABRAMS,PR1,2433-70	
	6.386	2.310	2.760	.3500		.0500		ABRAMS,PR1,2433-70	
	6.829	2.547	3.000	.4000		.0660		BUCHNER,NPB29,381-71	A1
	6.829	2.547	3.000	.3200		.C70C		PAPE LHEB96-68	
	7.200	2.744	3.200	.4500		.0500		ABRAMS,PR1,2433-70	
	7.757	3.041	3.500	.4900		.050C		PAPE LHEB96-68	
	10.552	4.531	5.000	.3400		.040C		PAPE LHEB96-68	
THRESHOLD	3.50	.77	1.16					7 DATA PCINTS LISTED	
..... REACTION 178									
N***1236K+PI-PI0	6.829	2.547	3.000	.C770		.053C		PAPE LHEB96-68	
	7.757	3.041	3.500	.1530		.0350		PAPE LHEB96-68	
	10.552	4.531	5.000	.1320		.055C		PAPE LHEB96-68	
THRESHOLD	4.04	1.06	1.47					3 DATA POINTS LISTED	
..... REACTION 179									
N***1236K+PI-PI0 (NO K*)	6.829	2.547	3.000	.1000		ERROR NOT GIVEN		FERRO-LUZZI,569,DUB64	
THRESHOLD	4.02	1.05	1.46						
..... REACTION 180									
N***1236K+725PI-=PK+3PI	6.829	2.547	3.000	0.0000	MICROB	ERROR NOT GIVEN		FERRO-LUZZI,569,DUB64	$
THRESHOLD	4.41	1.26	1.68						
..... REACTION 181									
N***1236K0725PI0=PK+3PI	6.829	2.547	3.000	0.0000	MICROB	ERROR NOT GIVEN		FERRO-LUZZI,569,DUB64	$
THRESHOLD	4.41	1.26	1.68						
..... REACTION 182									
N***1236K0	2.786	.392	.735	.0800		.0600		BLAND,NPB13,595	
	2.864	.434	.785	.1320		ERROR NOT GIVEN		FILIPP. NC51A,1053-67	
	2.864	.434	.785	.19C0		.C400		BLAND,NPB13,595-69	
	2.985	.498	.860	.9000		ERROR NOT GIVEN		BOWLER UCRL16370-65	
	2.992	.501	.864	.8600		.1200		BLAND,NPB13,595-69	
	2.992	.501	.864	.8600		.12CC		BLAND NP B13,595-69	H
	3.051	.533	.900	1.9000		.2CCC		KEHOE PRL11,93-63	
	3.150	.586	.960	2.3000		.3000		BLAND PRL18,1077-67	
	3.165	.594	.969	2.4200		.1900		BLAND NP B13,595-69	H
	3.387	.712	1.100	3.8000		.4000		BOWLER A-92 CXF65	
	3.455	.749	1.140	3.6000		.5000		BOLDT PR133B,220-64	
	3.559	.804	1.200	2.9000		.3000		BLAND PRL17,939-66	
	3.571	.810	1.207	3.4300		.32C0		BLAND NP B13,595-69	H
	3.852	.960	1.367	3.0500		.33CC		BLAND NP B13,595-69	H
	3.999	1.038	1.450	2.4000		.5000		BETTINI PL16,83-65	
	4.195	1.142	1.560	2.4400		ERROR NOT GIVEN		BOWLER A-92 CXF65	
	4.239	1.166	1.585	2.0500		.3400		BLAND NP B13,595-69	H
	4.917	1.527	1.960	2.3000		.3000		GOLDHAB. PR142,913-66	
	5.465	1.820	2.260	1.1000		.2000		BOMSE PR158,1298-67	
	6.183	2.202	2.650	.9000		.2000		NEWMAN PR158,1310-67	
	6.774	2.517	2.970	.6300		.0900		BASSCMP. NPB16,125-70	
	7.757	3.041	3.500	.6000		.06C0		PAPE LHEB96-68	
	9.806	4.133	4.600	.4200		.03C0		FU,UCRL-18417-70	
	10.552	4.531	5.000	.3100		.0800		HENRY PC-66	
	18.038	8.520	9.000	.1070		.0230		LIND NP B14B,1-69	
	19.912	9.518	10.000	.0720		.0100		BARNHAM,NPB28,171-71	
	24.974	12.216	12.700	.0440		.CC70		BERLINGHI.NPB8,333-68	
THRESHOLD	2.99	.50	.86					27 DATA POINTS LISTED	
						FIT OF SIGMA AGAINST PLAB GEV/C			
						5 DATA PCINTS USED ABOVE 4.0 GEV/C , PROB. = .98			
						K = 12.24 +- 6.26 N = -2.21 +- .27			
..... REACTION 183									
N***1236K0PI+PI-	6.829	2.547	3.000	.0910		.0420		PAPE LHEB96-68	
	7.757	3.041	3.500	.0870		.0530		PAPE LHEB96-68	
	10.552	4.531	5.000	.1300		.028C		PAPE LHEB96-68	
	19.912	9.518	10.000	.0750		.025C		BARNHAM HEIC67	
THRESHOLD	4.04	1.06	1.47					4 DATA POINTS LISTED	
..... REACTION 184									
N***1236K0PI+PI-PI0	19.912	9.518	10.000	.15C0		.C250		BARNHAM HEIC67	
THRESHOLD	4.62	1.37	1.80						
..... REACTION 185									
N***1236K0PI0	6.829	2.547	3.000	.4600		.0800		PAPE LHEB96-68	
	7.757	3.041	3.500	.4400		.0800		PAPE LHEB96-68	
THRESHOLD	3.50	.77	1.16					2 DATA PCINTS LISTED	
..... REACTION 186									
N***1236K**890PI-	6.829	2.547	3.000	.1020		.C280		PAPE LHEB96-68	
	7.757	3.041	3.500	.2060		.C260		PAPE LHEB96-68	
	10.552	4.531	5.000	.1810		.C36C		PAPE LHEB96-68	
THRESHOLD	5.13	1.64	2.08					3 DATA POINTS LISTED	

FOOTNOTES

A1=CROSS SECT.OBTAINED COMBINING RESULTS FROM 2 EXPTS,IN DE AND IN HYDROGEN
$=DATA POINT NOT USED IN FITTING OR PLOTTING
H=CROSS SECTIONS OBTAINED FROM COUNT OF TAU DECAYS

********** K+P **********

	S	K.ENERGY	PLAB		CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 187									
N*++1236K*0890	4.917	1.527	1.960		2.5500	.3000		GOLDHABER PL6,62-63	*
	5.465	1.820	2.260		1.2000	.1500		BOMSE PR158,1281-67	*
	6.829	2.547	3.000		1.5900	.1000		PAPE LHEB96-68	
	7.757	3.041	3.500		1.4400	.0900		PAPE LHEB96-68	
	9.806	4.133	4.600		.6200	.0800		SHEN PRL17,726-66,PC	
	10.552	4.531	5.000		1.1200	.0700		PAPE LHEB96-68	
	18.038	8.520	9.000		.1000	.0400		SHEN PC	
	19.912	9.518	10.000		.0480	.0270		BGO COLL.,121,CERN68	*
	24.974	12.216	12.700		.1700	.0450		BERLIN. UR-875-218-67	
THRESHOLD	4.52	1.32	1.74					9 DATA POINTS LISTED	
					FIT OF SIGMA AGAINST PLAB GEV/C				
					5 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .01				
					K = 30.30 +- 25.30 N = -2.15 +- .50				
..... REACTION 188									
N*++1236K*0890=PK+PI+PI-	4.917	1.527	1.960		1.7000	.2000		GOLDHABER PL6,62-63	
	5.465	1.820	2.260		.8000	.1000		BOMSE PR158,1281-67	
	5.961	2.084	2.530		1.1300	.1100		ABRAMS,PR1,2433-70	
	6.386	2.310	2.760		1.1700	.1000		ABRAMS,PR1,2433-70	
	6.774	2.517	2.970		1.2000	.2000		FERRO-L.NC39,417-65	
	6.829	2.547	3.000		1.5800	.0380		BUCHNER,NPB29,381-71	A1
	7.200	2.744	3.200		.9600	.0800		ABRAMS,PR1,2433-70	
	7.664	2.991	3.450		.9200	.1000		GEORGE NC49A,9-67	
	10.496	4.501	4.970		.7200	.0600		GEORGE NC49A,9-67	
	24.974	12.216	12.700		.1000	.0300		BERLINGHI.NPB8,333-68	
THRESHOLD	4.52	1.32	1.74					10 DATA POINTS LISTED	
..... REACTION 189									
N*++1236K*0890=PK0PI+PI0	6.774	2.517	2.970		.4600	.0900		FERRO-L.NC39,417-65	
	7.664	2.991	3.450		.5600	.1000		GEORGE NC49A,9-67	
	19.912	9.518	10.000		.0160	.0090		BGO COLL.,121,CERN68	
THRESHOLD	4.52	1.32	1.74					3 DATA POINTS LISTED	
..... REACTION 190									
N*++1236K*0890PI+PI-	7.757	3.041	3.500		.0310	ERROR NOT GIVEN		PAPE LHEB96-68	
	10.552	4.531	5.000		.0330	ERROR NOT GIVEN		PAPE,LHEB96-68	
THRESHOLD	5.79	1.99	2.44					2 DATA POINTS LISTED	
..... REACTION 191									
N*++1236K*0PI+PI-,K*=K+PI-	10.552	4.531	5.000		.0740	.0170		DE BAERE,NPB22,131-70	
THRESHOLD	5.79	1.99	2.44						
..... REACTION 192									
N*++1236K*0890PI+PI-PI0	10.552	4.531	5.000		.0210	ERROR NOT GIVEN		PAPE LHEB96-68	
THRESHOLD	6.48	2.36	2.81						
..... REACTION 193									
N*++1236K*0890PI0	6.829	2.547	3.000		.1570	.0370		PAPE LHEB96-68	
	7.757	3.041	3.500		.0790	.0270		PAPE LHEB96-68	
	10.552	4.531	5.000		.1720	.0330		PAPE LHEB96-68	
THRESHOLD	5.13	1.64	2.08					3 DATA POINTS LISTED	
..... REACTION 195									
N*++1236K*0890PI0=PK+3PI	6.829	2.547	3.000		.1500	ERROR NOT GIVEN		FERRO-LUZZI,569,DUB64	
THRESHOLD	5.11	1.63	2.06						
..... REACTION 194									
N*++1236K*01400	7.757	3.041	3.500		.0160	.0160		PAPE LHEB96-68	
	10.552	4.531	5.000		.1300	.0140		ESKREYS,NPB29,587-71	
THRESHOLD	6.95	2.61	3.06					2 DATA POINTS LISTED	
..... REACTION 196									
N*++1236K*01400=PK+PI+PI-	10.552	4.531	5.000		.1100	.0200		GEORGE NC49A,9-67	
	24.974	12.216	12.700		.0250	ERROR NOT GIVEN		BERLINGHI.NPB8,333-68	O
THRESHOLD	6.95	2.61	3.06					2 DATA POINTS LISTED	
..... REACTION 197									
N*++K*01400=N*++K+PI-	10.496	4.501	4.970		.1430	.0110		BASSO. NP B13,189-69	
THRESHOLD	6.95	2.61	3.06						
..... REACTION 198									
N*++K*01400=N*++RH0K0	10.496	4.501	4.970	U	.0220			BASSO. NP B13,189-69	
THRESHOLD	6.95	2.61	3.06						
..... REACTION 199									
N*++K*01400=N*++OMK0	10.496	4.501	4.970		.0190	.0080		BASSO. NP B13,189-69	
THRESHOLD	6.95	2.61	3.06						
..... REACTION 200									
N*++K*01400=N*++K*+890PI-	10.496	4.501	4.970		.0750	.0200		BASSO. NP B13,189-69	
THRESHOLD	6.95	2.61	3.06						
..... REACTION 201									
N*++K*01400=N*++K0PI+PI-NR	10.496	4.501	4.970	U	.0100			BASSO. NP B13,189-69	
THRESHOLD	6.92	2.59	3.05						

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FOOTNOTES

*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
A1=CROSS SECT.OBTAINED COMBINING RESULTS FROM 2 EXPTS,IN DE AND IN HYDROGEN
O=ORDER OF MAGNITUDE
U=UPPER LIMIT

K+P

		S	K.ENERGY	PLAB	CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 202										
N*+1236K+		3.150	.586	.960	.8000		ERROR NOT GIVEN		BOWLER UCRL16370-65	*
		3.559	.804	1.200	1.0000		.2300		BLAND PRL17,939-66	*
		6.829	2.547	3.000	.1800		.0800		SALLSTROM AF37,463-68	*
		7.757	3.041	3.500	.2400		.0400		DE BAERE NC51A,401-67	*
	THRESHOLD	2.99	.50	.86					4 DATA POINTS LISTED	
..... REACTION 203										
N*+1236K+=PK+PI0		2.992	.501	.864	.1900		.0800		BLAND NP B13,595-69	H
		3.150	.586	.960	.5000		ERROR NOT GIVEN		BOWLER UCRL16370-65	
		3.165	.594	.969	.4300		.1100		BLAND NP B13,595-69	H
		3.559	.804	1.200	.6700		.1500		BLAND PRL17,939-66	
		3.571	.810	1.207	.8100		.1400		BLAND NP B13,595-69	H
		6.829	2.547	3.000	.1600		.0600		SALLSTROM AF37,463-68	
		7.757	3.041	3.500	.1600		.0300		DE BAERE NC51A,401-67	
	THRESHOLD	2.99	.50	.86					7 DATA POINTS LISTED	
..... REACTION 204										
N*+1236K+=NK+PI+		2.992	.501	.864	.0800		.0400		BLAND NP B13,595-69	H
		3.150	.586	.960	.3000		ERROR NOT GIVEN		BOWLER UCRL16370-65	
		3.165	.594	.969	.2400		.0700		BLAND NP B13,595-69	H
		3.571	.810	1.207	.3200		.0600		BLAND NP B13,595-69	H
		6.829	2.547	3.000	.0200		.0500		SALLSTROM AF37,463-68	
		7.757	3.041	3.500	.0800		.0200		DE BAERE NC51A,401-67	
	THRESHOLD	2.99	.50	.86					6 DATA POINTS LISTED	
..... REACTION 205										
N*+1236K+PI+PI-		6.829	2.547	3.000	.0490		.0460	.0440	PAPE LHEB96-68	
		7.757	3.041	3.500	.0340		.0300	.0170	PAPE LHEB96-68	
		10.552	4.531	5.000	.0310		.0470	.0310	PAPE LHEB96-68	
	THRESHOLD	4.04	1.06	1.47					3 DATA POINTS LISTED	
..... REACTION 206										
N*+1236K0PI+		6.829	2.547	3.000	.1600		.1200		PAPE LHEB96-68	
	THRESHOLD	3.50	.77	1.16						
..... REACTION 207										
N*+1236K*+890		6.829	2.547	3.000	.5700		.1300		PAPE LHEB96-68	
		7.757	3.041	3.500	.3400		.1000		PAPE LHEB96-68	
	THRESHOLD	4.52	1.32	1.74					2 DATA POINTS LISTED	
..... REACTION 208										
N*+1236K*+890=PK0PI+PI0		6.774	2.517	2.970	.1800		.0400		FERRO-L.NC39,417-65	
		7.757	3.041	3.500	.1300		.0300		GEORGE NC49A,9-67	
	THRESHOLD	4.52	1.32	1.74					2 DATA POINTS LISTED	
..... REACTION 209										
N*+1236K*+890=NK0PI+PI+		4.917	1.527	1.960	.3300		.1000		GOLDHABER PL6,62-63	
		6.774	2.517	2.970	.1100		.0500		FERRO-L.NC39,417-65	
	THRESHOLD	4.52	1.32	1.74					2 DATA POINTS LISTED	
..... REACTION 210										
N*+1236K*0890PI+		6.829	2.547	3.000	.0140		.0400	.0140	PAPE LHEB96-68	
		7.757	3.041	3.500	.0150		.0330	.0100	PAPE LHEB96-68	
		10.552	4.531	5.000	.1620		.0200		PAPE LHEB96-68	
	THRESHOLD	5.13	1.64	2.08					3 DATA POINTS LISTED	
..... REACTION 211										
N*-1236K+PI+PI+		6.829	2.547	3.000	.0320		.0250		PAPE LHEB96-68	
		7.757	3.041	3.500	.0630		.0190		PAPE LHEB96-68	
		10.552	4.531	5.000	.0990		.0220		PAPE LHEB96-68	
	THRESHOLD	4.04	1.06	1.47					3 DATA POINTS LISTED	
..... REACTION 212										
N*01236K+PI+=PK+PI+PI-		6.829	2.547	3.000	.0920		.0140		BUCHNER,NPB29,381-71	A1
	THRESHOLD	3.50	.77	1.16						
..... REACTION 213										
N*01236K+PI+PI+PI-		7.757	3.041	3.500	.0930		ERROR NOT GIVEN		PAPE LHEB96-68	
		10.552	4.531	5.000	.0600		ERROR NOT GIVEN		PAPE LHEB96-68	
	THRESHOLD	4.62	1.37	1.80					2 DATA POINTS LISTED	
..... REACTION 214										
N*01236K+PI+PI0		6.829	2.547	3.000	.0660		.1500	.0660	PAPE LHEB96-68	
		7.757	3.041	3.500	0.0000	MICROB	94.0000		PAPE LHEB96-68	$
		10.552	4.531	5.000	.2280		.0990		PAPE LHEB96-68	
	THRESHOLD	4.04	1.06	1.47					3 DATA POINTS LISTED	
..... REACTION 215										
N*01236K*+890PI+		6.829	2.547	3.000	.2640		.0840		PAPE LHEB96-68	
		7.757	3.041	3.500	.1860		.0990	.0600	PAPE LHEB96-68	
		10.552	4.531	5.000	.1020		.0690	.0540	PAPE LHEB96-68	
	THRESHOLD	5.13	1.64	2.08					3 DATA POINTS LISTED	
..... REACTION 216										
N*01236K*+890PI+PI+PI-		10.552	4.531	5.000	.1010		ERROR NOT GIVEN		PAPE LHEB96-68	
	THRESHOLD	6.48	2.36	2.81						
..... REACTION 217										
N*01236K*0890PI+PI+PI0		10.552	4.531	5.000	.0760		ERROR NOT GIVEN		PAPE LHEB96-68	
	THRESHOLD	6.48	2.36	2.81						

FOOTNOTES

*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
H=CROSS SECTIONS OBTAINED FROM COUNT OF TAU DECAYS
A1=CROSS SECT.OBTAINED COMBINING RESULTS FROM 2 EXPTS,IN DE AND IN HYDROGEN
$=DATA POINT NOT USED IN FITTING OR PLOTTING

K+P

		S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 218											
N*1236K=(P/N)KPI		2.786	.392	.735		.1100		.0800		BLAND,NPB13,595-69	
		2.864	.434	.785		.2500		.0500		BLAND,NPB13,595-69	
		2.992	.501	.864		1.1300		.1500		BLAND NP B13,595-69	H
		3.165	.594	.969		3.0900		.2300		BLAND NP B13,595-69	H
		3.571	.810	1.207		4.5600		.3500		BLAND NP B13,595-69	H
		3.852	.960	1.367		4.1000		.4000		BLAND NP B13,595-69	H
		4.239	1.166	1.585		2.7000		.4000		BLAND NP B13,595-69	H
	THRESHOLD	3.00	.51	.87						7 DATA POINTS LISTED	
..... REACTION 219											
N+157OK*+890		10.552	4.531	5.000		.1600		.0230		BASSCMP.PL25B,440-67	
	THRESHOLD	6.05	2.13	2.58							
..... REACTION 220											
L		7.831	3.080	3.540		.0717		.0055		BISHOP,NPB23,547-70	A
		24.974	12.216	12.700		.4000		.0800		STONE,PL31B,515-70	A
	THRESHOLD	1.24	0.00	0.00						2 DATA POINTS LISTED	
..... REACTION 221											
LPPIOAXI+		18.038	8.520	9.000	L	.3000	MICROB	*000.0000		LISSAUER,NPB18,491-70	
	THRESHOLD	12.34	5.48	5.96							
..... REACTION 222											
LPAXI+		18.038	8.520	9.000	L	.6500	MICROB			LISSAUER NPB18,491-70	
	THRESHOLD	11.38	4.97	5.44							
..... REACTION 223											
LNPI+AXI+		18.038	8.520	9.000	L	.2800	MICROB			LISSAUER,NPB18,491-70	
	THRESHOLD	12.36	5.49	5.96							
..... REACTION 224											
LK+PI+ZO		7.831	3.080	3.540		1.7000	MICROB	1.2000		BISHOP,NPB23,547-70	
	THRESHOLD	4.12	1.10	1.52							
..... REACTION 225											
LK+K+		4.917	1.527	1.960	U	.0100				CHINOW.PR139B,1411-65	
		6.183	2.202	2.650		.0300		.0200		NEWMAN PR158,1310-67	
		6.829	2.547	3.000		.0230		.0045		PAPE LHEB96-68	
		6.829	2.547	3.000		.0223		.0033		DODD PR177,1991-69	
		7.757	3.041	3.500		.0220		.0045		PAPE LHEB96-68	
		7.831	3.080	3.540		.0247		.0027		BISHOP,NPB23,547-70	
		10.552	4.531	5.000		.0250		.0050		PAPE LHEB-69	
		14.854	6.823	7.300		.0150		.0050		MELLEMA,NPB27,437-71	
		25.030	12.246	12.730		.0120		.0030		BERLINGH.,172,CERN68	
	THRESHOLD	4.42	1.26	1.69						9 DATA POINTS LISTED	
..... REACTION 226											
LK+K+PI+PI-		7.831	3.080	3.540		1.0000	MICROB	.5000		ERWIN NPB9,364-69	
		10.552	4.531	5.000		3.0000	MICROB	2.0000		PAPE LHEB-69	
	THRESHOLD	5.68	1.93	2.38						2 DATA POINTS LISTED	
..... REACTION 227											
LK+K+PI+PI-PIO		10.552	4.531	5.000		2.0000	MICROB	2.0000		PAPE LHEB-69	
	THRESHOLD	6.37	2.30	2.75							
..... REACTION 228											
LK+K+PIO		6.183	2.202	2.650		.0100		.0100		NEWMAN PR158,1310-67	
		6.829	2.547	3.000		4.7000	MICROB	1.3000		DODD PR177,1991-69	
		6.829	2.547	3.000		7.5000	MICROB	2.5000		PAPE LHEB96-68	
		7.757	3.041	3.500		9.5000	MICROB	3.0000		PAPE LHEB96-68	
		7.831	3.080	3.540		.0135		.0021		BISHOP,NPB23,547-70	
		10.552	4.531	5.000		.0250		.0050		PAPE LHEB-69	
		14.854	6.823	7.300		.0200		.0040		CHIEN PL25B,426-67	
		24.974	12.216	12.700		.0140		.0050		BERLING.PL27B,665-68	
	THRESHOLD	5.03	1.59	2.02						8 DATA POINTS LISTED	
..... REACTION 229											
LK+K+ZO		10.552	4.531	5.000		7.0000	MICROB	4.0000		PAPE LHEB-69	
	THRESHOLD	5.68	1.93	2.38							
..... REACTION 230											
LK+KOPI+		6.183	2.202	2.650		.0300		.0300		NEWMAN PR158,1310-67	
		6.829	2.547	3.000		9.1000	MICROB	1.9000		DODD PR177,1991-69	
		6.829	2.547	3.000		.0125		.0035		PAPE LHEB96-68	
		7.757	3.041	3.500		.0240		.0045		PAPE LHEB96-68	
		7.831	3.080	3.540		.0238		.0031		BISHOP,NPB23,547-70	
		10.552	4.531	5.000		.0370		.0060		PAPE LHEB-69	
		24.974	12.216	12.700		.0260		.0070		BERLING.PL27B,665-68	
	THRESHOLD	5.03	1.59	2.02						7 DATA POINTS LISTED	
..... REACTION 231											
LK+KOPI+PI+PI-		10.552	4.531	5.000		5.0000	MICROB	3.0000		PAPE LHEB-69	
		24.974	12.216	12.700		.0390		.0150		BERLING.PL27B,665-68	
	THRESHOLD	6.37	2.30	2.75						2 DATA POINTS LISTED	
..... REACTION 232											
LK+KOPI+PIO		10.552	4.531	5.000		.0110		.0070		PAPE LHEB-69	
		24.974	12.216	12.700		.0300		.0150		BERLING.PL27B,665-68	
	THRESHOLD	5.68	1.93	2.38						2 DATA POINTS LISTED	

FOOTNOTES

H=CROSS SECTIONS OBTAINED FROM COUNT OF TAU DECAYS
A=SUM OF ALL FINAL STATES WHICH INCLUDE THE GIVEN PARTICLES
L=LOWER LIMIT
U=UPPER LIMIT

K+P

	S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 233										
LK+KOPI+PIOZO	10.552	4.531	5.000		.0230		.0110		PAPE LHEB-69	
THRESHOLD	7.09	2.69	3.14							
..... REACTION 234										
LKOKOPI+PI+	10.552	4.531	5.000		4.0000	MICROB	4.0000		PAPE LHEB-69	
	24.974	12.216	12.700		.0200		.0100		BERLING.PL27B,665-68	
THRESHOLD	5.68	1.93	2.38						2 DATA POINTS LISTED	
..... REACTION 235										
LKOKOPI+PI+PIO	10.552	4.531	5.000		.0160		.0160		PAPE LHEB-69	
THRESHOLD	6.37	2.30	2.75							
..... REACTION 236										
L/SO	14.854	6.823	7.300		.0430		.0070		CHIEN PL25B,426-67	A
THRESHOLD	5.71	1.95	2.39							
..... REACTION 237										
(L/SO)K+K+	7.813	3.071	3.530		.0310		.0040		ERWIN PRL16,1063-66	
	10.552	4.531	5.000		.0500		.0150		FERRO-LUZZI,726,DUB64	
	24.974	12.216	12.700		.0140		.0030		BERLING.PL27B,665-68	
THRESHOLD	4.43	1.27	1.69						3 DATA PCINTS LISTED	
..... REACTION 238										
(L/SO)(P/N)AXI+	24.974	12.216	12.700		5.5000	MICROB	ERROR NOT GIVEN		STONE,PL31B,515-70	AO
THRESHOLD	11.38	4.97	5.45							
..... REACTION 239										
(L/SO)K+K+PI+PI-ZO	10.552	4.531	5.000		5.0000	MICROB	3.0000		PAPE LHEB-69	
THRESHOLD	7.10	2.69	3.15							
..... REACTION 240										
S+(P/N)AXI+	24.974	12.216	12.700		1.8000	MICROB	ERROR NOT GIVEN		STONE,PL31B,515-70	AO
THRESHOLD	11.89	5.24	5.72							
..... REACTION 241										
S+NAXI+	18.038	8.520	9.000	L	.3000	MICROB			LISSAUER,NPB18,491-70	
THRESHOLD	11.90	5.25	5.72							
..... REACTION 242										
S+K+KO	6.183	2.202	2.650		.0200		.0200		NEWMAN PR158,1310-67	
	6.829	2.547	3.000		.0150		.0050		PAPE LHEB96-68	
	6.829	2.547	3.000		.0194		.0047		DODD PR177,1991-69	
	7.757	3.041	3.500		8.0000	MICROB	4.0000		PAPE LHEB96-68	
	10.552	4.531	5.000		.0170		.0050		PAPE LHEB-69	
THRESHOLD	4.74	1.44	1.86						5 DATA PCINTS LISTED	
..... REACTION 243										
S+K+KOPI+PI-PIO	10.552	4.531	5.000		3.0000	MICROB	3.0000		PAPE LHEB-69	
THRESHOLD	6.75	2.50	2.96							
..... REACTION 244										
S+KOKOPI+	10.552	4.531	5.000		5.0000	MICROB	4.0000		PAPE LHEB-69	
THRESHOLD	5.37	1.77	2.21							
..... REACTION 245										
S+AXI+ZO	18.038	8.520	9.000	L	.0700	MICROB			LISSAUER,NPB18,491-70	
THRESHOLD	7.78	3.06	3.51							
..... REACTION 246										
S-(P/N)AXI+	24.974	12.216	12.700		.7000	MICROB	ERROR NOT GIVEN		STONE,PL31B,515-70	AO
THRESHOLD	11.89	5.24	5.72							
..... REACTION 247										
S-K+K+PI+	16.539	7.721	8.200		3.0000	MICROB	3.0000		PAPE LHEB-69	
THRESHOLD	5.37	1.77	2.21							
..... REACTION 248										
S+K(+,0)KOPI(0,+)	7.831	3.080	3.540		.0135		.0029		BISHOP,NPB23,547-70	
THRESHOLD	5.29	1.73	2.16							
..... REACTION 249										
SOPAXI+	18.038	8.520	9.000	L	.5800	MICROB			LISSAUER NPB18,491-70	
THRESHOLD	11.89	5.24	5.72							
..... REACTION 250										
SOK+K+	6.183	2.202	2.650	U	.0100				NEWMAN PR158,1310-67	
	6.829	2.547	3.000		9.8000	MICROB	2.0000		DODD PR177,1991-69	
	6.829	2.547	3.000		7.5000	MICROB	2.5000		PAPE LHEB96-68	
	7.757	3.041	3.500		7.0000	MICROB	2.5000		PAPE LHEB96-68	
	7.831	3.080	3.540		9.7000	MICROB	1.8000		BISHOP,NPB23,547-70	
	10.552	4.531	5.000		5.0000	MICROB	2.0000		PAPE LHEB-69	
	24.974	12.216	12.700		5.0000	MICROB	ERROR NOT GIVEN		FORMAN BAPS12,540-67	O
THRESHOLD	4.74	1.44	1.86						7 DATA PCINTS LISTED	
..... REACTION 251										
SOK+K+PI+PI-	7.831	3.080	3.540		1.0000	MICROB	5.0000		ERWIN NPB9,364-69	
	10.552	4.531	5.000		3.0000	MICROB	3.0000		PAPE LHEB-69	
THRESHOLD	6.04	2.13	2.57						2 DATA PCINTS LISTED	

FOOTNOTES

A=SUM OF ALL FINAL STATES WHICH INCLUDE THE GIVEN PARTICLES
AO=A TRUE AND O TRUE
O=ORDER OF MAGNITUDE
L=LOWER LIMIT
U=UPPER LIMIT

********** K+P **********

		S	K.ENERGY	PLAB		CROSS SECTION		ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 252											
Y(P/N)AXI+		24.974	12.216	12.700		8.0000	MICROB	ERROR NOT GIVEN		STONE,PL31B,515-70	AO
	THRESHOLD	5.64	1.91	2.35							
..... REACTION 253											
XI-		24.974	12.216	12.700		2.5000	MICROB	1.0000		STONE,PL31B,515-70	A
	THRESHOLD	1.74	0.00	0.00							
..... REACTION 254											
XI-PK+AXI+		24.974	12.216	12.700		.6000	MICROB	ERROR NOT GIVEN		STONE,PL31B,515-70	AO
	THRESHOLD	16.58	7.74	8.22							
..... REACTION 255											
K+3PI+2PI-ZO		10.552	4.531	5.000		2.0000	MICROB	1.5000		DE BAERE,NPB22,131-70	
	THRESHOLD	2.17	.06	.26							
..... REACTION 256											
K+KOPI+ZO		7.831	3.080	3.540		1.7000	MICROB	1.2000		BISHOP,NPB23,547-70	
	THRESHOLD	1.98	0.00	0.00							
..... REACTION 257											
KO		10.552	4.531	5.000		5.7600		.2100		BEUPRE,NPB30,381-71	A
		16.539	7.721	8.200		5.7600		.3300		BEUPRE,NPB30,381-71	A
	THRESHOLD	.24	0.00	0.00						2 DATA POINTS LISTED	
..... REACTION 258											
KOPI+PI+ZO		7.831	3.080	3.540		.1660		.0560		BISHOP NPB9,403-69	
	THRESHOLD	1.11	0.00	0.00							
..... REACTION 259											
OM		18.038	8.520	9.000	U	.2600				LISSAUER NPB18,491-70	W
	THRESHOLD	.61	0.00	0.00							
..... REACTION 260											
AOM+		24.974	12.216	12.700	U	.4000	MICROB			STONE,PL31B,515-70	AU
	THRESHOLD	2.79	.39	.74							
..... REACTION 261											
AXI+		18.038	8.520	9.000		5.3000	MICROB	ERROR NOT GIVEN		SHEN PL25B,443-67	A
		24.974	12.216	12.700		.0100		.0030		STONE,PL31B,515-70	A
	THRESHOLD	1.74	0.00	0.00						2 DATA POINTS LISTED	
..... REACTION 262											
AL		24.974	12.216	12.700		.1600		.0300		STONE,PL31B,515-70	A
	THRESHOLD	1.24	0.00	0.00							
..... REACTION 263											
2PI		7.831	3.080	3.540		2.3370		.0380		BISHOP NPB9,403-69	A
	THRESHOLD	2.93	.47	.83							

FOOTNOTES

AO=A TRUE AND O TRUE
A=SUM OF ALL FINAL STATES WHICH INCLUDE THE GIVEN PARTICLES
O=ORDER OF MAGNITUDE
W=A TRUE AND U TRUE
U=UPPER LIMIT
AU=A TRUE AND U TRUE

K+N

		S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 264									
TOTAL		2.846	.421	.770	15.5000	1.1000		CCOK PRL7,182-61	
		3.036	.522	.888	16.8500	.5200		CCCL PR1,1887-70	
		3.120	.567	.939	17.6000	.4500		CCCL PR1,1887-70	
		3.172	.595	.970	17.8000	.8000		CCOK PRL7,182-61	
		3.204	.612	.989	18.5300	.3600		CCCL PR1,1887-70	
		3.290	.657	1.040	18.9100	.3500		CCCL PR1,1887-70	
		3.377	.704	1.091	20.6100	.3500		CCCL PR1,1887-70	
		3.463	.749	1.141	21.2500	.2100		CCCL PR1,1887-70	
		3.513	.776	1.170	18.2000	.8000		CCOK PRL7,182-61	
		3.549	.795	1.191	20.8700	.1700		CCCL PR1,1887-70	
		3.638	.843	1.242	20.2600	.1600		CCCL PR1,1887-70	
		3.726	.889	1.292	19.6800	.1500		CCCL PR1,1887-70	
		3.740	.897	1.300	18.5000	1.1000		CCOK PRL7,182-61	
		3.814	.936	1.342	19.3200	.1600		CCCL PR1,1887-70	
		3.902	.983	1.392	19.2200	.1600		CCCL PR1,1887-70	
		3.987	1.029	1.440	18.1000	.9000		CCOK PRL7,182-61	
		3.991	1.030	1.442	19.0700	.1400		CCCL PR1,1887-70	
		4.080	1.078	1.492	18.9500	.1300		CCCL PR1,1887-70	
		4.183	1.133	1.550	18.5100	.1600		ABRAMS PR1,1917-70	
		4.261	1.174	1.593	18.7900	.1200		CCCL PR1,1887-70	
		4.273	1.181	1.600	18.8900	.1500		ABRAMS PR1,1917-70	
		4.350	1.222	1.643	18.6700	.1000		CCCL PR1,1887-70	
		4.435	1.267	1.690	18.5000	.8000		CCCK PRL7,182-61	
		4.440	1.270	1.693	18.6900	.0800		CCCL PR1,1887-70	
		4.453	1.276	1.700	18.8300	.1100		ABRAMS PR1,1917-70	
		4.531	1.318	1.743	18.8800	.0800		CCCL PR1,1887-70	
		4.543	1.325	1.750	18.8600	.1100		ABRAMS PR1,1917-70	
		4.621	1.366	1.793	18.7300	.0800		CCCL PR1,1887-70	
		4.634	1.373	1.800	18.5300	.1400		ABRAMS PR1,1917-70	
		4.725	1.421	1.850	18.6600	.1000		ABRAMS PR1,1917-70	
		4.803	1.463	1.893	18.5000	.0800		CCCL PR1,1887-70	
		4.816	1.469	1.900	18.6900	.1000		ABRAMS PR1,1917-70	
		4.907	1.518	1.950	18.7000	.0900		ABRAMS PR1,1917-70	
		4.943	1.537	1.970	18.6000	.6000		CCOK PRL7,182-61	
		4.985	1.559	1.993	18.5500	.1100		CCCL PR1,1887-70	
		4.998	1.566	2.000	18.7900	.0800		ABRAMS PR1,1917-70	
		5.089	1.615	2.050	18.5400	.1000		ABRAMS PR1,1917-70	
		5.168	1.657	2.093	18.6700	.1100		CCCL PR1,1887-70	
		5.180	1.663	2.100	18.4900	.1100		ABRAMS PR1,1917-70	
		5.272	1.712	2.150	18.4300	.1000		ABRAMS PR1,1917-70	
		5.351	1.754	2.193	18.4000	.1300		CCCL PR1,1887-70	
		5.363	1.761	2.200	18.4000	.1000		ABRAMS PR1,1917-70	
		5.474	1.820	2.260	17.7000	.8000		CCOK PRL7,182-61	
		5.547	1.859	2.300	18.2700	.0900		ABRAMS PR1,1917-70	
		5.639	1.908	2.350	18.2600	.0700		ABRAMS PR1,1917-70	
		5.718	1.950	2.393	18.6300	.1100		CCCL PR1,1887-70	
		5.731	1.956	2.400	18.0900	.0800		ABRAMS PR1,1917-70	
		5.823	2.005	2.450	18.2500	.0600		ABRAMS PR1,1917-70	
		5.915	2.054	2.500	18.1100	.0800		ABRAMS PR1,1917-70	
		6.007	2.104	2.550	17.1000	.8000		CCOK PRL7,182-61	
		6.007	2.104	2.550	18.1700	.0600		ABRAMS PR1,1917-70	
		6.100	2.153	2.600	18.0900	.0600		ABRAMS PR1,1917-70	
		6.192	2.202	2.650	18.0200	.0600		ABRAMS PR1,1917-70	
		6.284	2.251	2.700	18.1100	.0600		ABRAMS PR1,1917-70	
		6.377	2.300	2.750	18.0600	.0600		ABRAMS PR1,1917-70	
		6.469	2.349	2.800	18.0100	.0600		ABRAMS PR1,1917-70	
		6.525	2.379	2.830	17.5000	.9000		CCOK PRL7,182-61	
		6.562	2.399	2.850	17.9500	.0600		ABRAMS PR1,1917-70	
		6.654	2.448	2.900	17.8500	.0500		ABRAMS PR1,1917-70	
		6.747	2.497	2.950	17.8100	.0600		ABRAMS PR1,1917-70	
		6.840	2.547	3.000	17.8100	.0600		ABRAMS PR1,1917-70	
		6.933	2.596	3.050	17.8300	.0600		ABRAMS PR1,1917-70	
		7.025	2.645	3.100	17.8500	.0600		ABRAMS PR1,1917-70	
		7.118	2.695	3.150	17.6100	.0600		ABRAMS PR1,1917-70	
		7.211	2.744	3.200	17.6100	.0500		ABRAMS PR1,1917-70	
		7.304	2.793	3.250	17.6600	.0500		ABRAMS PR1,1917-70	
		7.397	2.843	3.300	17.5500	.0500		ABRAMS PR1,1917-70	
		12.439	5.526	6.000	17.5000	.4000		GALBR.PR138B,913-65	
		16.188	7.521	8.000	17.6000	.4000		GALBR.PR138B,913-65	
		19.941	9.518	10.000	17.5000	.4000		GALBR.PR138B,913-65	
		23.695	11.516	12.000	17.6000	.4000		GALBR.PR138B,913-65	
		27.450	13.515	14.000	17.5000	.4000		GALBR.PR138B,913-65	
		29.328	14.514	15.000	17.8700	.2300		DENISOV,PL36B,415-71	S3
		31.207	15.514	16.000	17.4000	.4000		GALBR.PR138B,913-65	
		34.963	17.513	18.000	17.6000	.4000		GALBR.PR138B,913-65	
		38.720	19.512	20.000	17.7000	.4000		GALBR.PR138B,913-65	
		38.720	19.512	20.000	17.9400	.2800		DENISOV,PL36B,415-71	S3
		48.113	24.511	25.000	17.7800	.1800		DENISOV,PL36B,415-71	S3
		57.507	29.510	30.000	17.6900	.1800		DENISOV,PL36B,415-71	S3
		66.902	34.510	35.000	18.1200	.1800		DENISOV,PL36B,415-71	S3
		76.296	39.509	40.000	18.1500	.2200		DENISOV,PL36B,415-71	S3
		85.691	44.509	45.000	18.3000	.2400		DENISOV,PL36B,415-71	S3
		95.086	49.509	50.000	18.0200	.2000		DENISOV,PL36B,415-71	S3
		104.481	54.508	55.000	18.4300	.2400		DENISOV,PL36B,415-71	S3
	THRESHOLD	2.05	0.00	0.00				84 DATA POINTS LISTED	
					FIT OF SIGMA AGAINST PLAB GEV/C				
					17 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. =1.00				
					K = 16.64 +- .72 N =+ .02 +- .01				
..... REACTION 265									
PK+PI-		5.547	1.859	2.300	3.0000	.2000		GOLDH.PRL15,737-65	
		6.784	2.517	2.970	2.5000	.2000		BASSO. NP B16,125-70	
	THRESHOLD	2.47	.22	.52				2 DATA POINTS LISTED	
..... REACTION 266									
PK0		5.547	1.859	2.300	1.5000	.1500		BUTTERW.PRL15,734-65	
		23.695	11.516	12.000	.0445	.0051		FIRESTCN,PRL25,958-70	
	THRESHOLD	2.05	0.00	0.00				2 DATA POINTS LISTED	

FOOTNOTES

S3=SYSTEMATIC ERROR IS 0.3 PER CENT

K+N

		S	K.ENERGY	PLAB		CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 267										
PK0PI0		6.784	2.517	2.970		1.4000	.1000		BASSO. NP B16,125-70	
	THRESHOLD	2.47	.22	.52						
..... REACTION 268										
PK*0890		5.547	1.859	2.300		2.1000	.3000		GOLDH.PRL15,737-65	*
		6.784	2.517	2.970		1.4600	.1500		BASSO. NP B16,125-70	
	THRESHOLD	3.34	.68	1.07					2 DATA POINTS LISTED	
..... REACTION 269										
PK*0890=PK+PI-		5.547	1.859	2.300		1.4000	.2000		GOLDH.PRL15,737-65	
		6.784	2.517	2.970		.9700	.1000		BASSO. NP B16,125-70	
	THRESHOLD	3.34	.68	1.07					2 DATA POINTS LISTED	
..... REACTION 270										
PK*01400		6.784	2.517	2.970		.3900	.1500		BASSO. NP B16,125-70	
	THRESHOLD	5.47	1.82	2.26						
..... REACTION 271										
PK*01400=PK+PI-		6.784	2.517	2.970		.1300	.0400		BASSO. NP B16,125-70	
	THRESHOLD	5.47	1.82	2.26						
..... REACTION 272										
NK0PI+		6.784	2.517	2.970		1.3000	.1000		BASSO. NP B16,125-70	
	THRESHOLD	2.48	.23	.52						
..... REACTION 273										
NK*+890		6.784	2.517	2.970		.8600	.1200		BASSO. NP B16,125-70	
	THRESHOLD	3.35	.69	1.07						
..... REACTION 274										
NK*+890=NK0PI+		6.784	2.517	2.970		.5700	.0800		BASSO. NP B16,125-70	
	THRESHOLD	3.35	.69	1.07						
..... REACTION 275										
N*+1236K0		6.784	2.517	2.970	U	.2700	.1500		BASSO. NP B16,125-70	
	THRESHOLD	2.99	.50	.86						
..... REACTION 276										
N*+1236K0=NK0PI+		6.784	2.517	2.970	U	.0900	.0500		BASSO. NP B16,125-70	
	THRESHOLD	2.99	.50	.86						
..... REACTION 277										
N*01236K+		6.784	2.517	2.970	U	.7200	.1800		BASSO. NP B16,125-70	
	THRESHOLD	2.99	.50	.86						
..... REACTION 278										
N*01236K+=PK+PI-		6.784	2.517	2.970	U	.2400	.0600		BASSO. NP B16,125-70	
	THRESHOLD	2.99	.50	.86						
..... REACTION 279										
N+1688K0		6.784	2.517	2.970		.3000	.2000		BASSO. NP B16,125-70	
	THRESHOLD	4.76	1.44	1.87						
..... REACTION 280										
N+1688K0=NK0PI+		6.784	2.517	2.970		.2000	.0800		BASSO. NP B16,125-70	
	THRESHOLD	4.76	1.44	1.87						

FOOTNOTES

*=CROSS SECTION DEDUCED BY EDITORS FROM PUBLISHED RESULTS
U=UPPER LIMIT

K+DE

..... REACTION 281 .....
TOTAL

S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
6.069	.121	.366	21.4100	.3000		BOWEN,PR2,2599-70	
6.159	.145	.405	21.9700	.2600		BOWEN,PR2,2599-70	
6.245	.168	.440	23.4600	.2400		BOWEN,PR2,2599-70	
6.334	.191	.475	24.2800	.2300		BOWEN,PR2,2599-70	
6.416	.213	.506	24.1600	.2300		BOWEN,PR2,2599-70	
6.498	.235	.536	24.7000	.2400		BOWEN,PR2,2599-70	
6.582	.257	.566	25.4900	.2600		BOWEN,PR2,2599-70	
6.656	.277	.592	26.7100	1.2300		BUGG PR168,1466-68	
6.667	.280	.596	26.3700	.2800		BOWEN,PR2,2599-70	
6.737	.299	.620	28.6100	.4400		BUGG PR168,1466-68	
6.758	.304	.627	27.6000	.3000		BOWEN,PR2,2599-70	
6.808	.318	.644	28.1300	.4400		BUGG PR168,1466-68	
6.847	.328	.657	26.7600	.3300		BOWEN,PR2,2599-70	
6.935	.351	.686	24.6800	.3600		BOWEN,PR2,2599-70	
7.017	.373	.713	27.7000	.3300		BUGG PR168,1466-68	
7.030	.377	.717	25.1300	.4100		BOWEN,PR2,2599-70	
7.189	.419	.768	28.9800	.3000		BUGG PR168,1466-68	
7.195	.421	.770	27.3000	.6000		COOK PRL7,182-61	
7.364	.466	.823	29.5600	.2200		BUGG PR168,1466-68	
7.497	.501	.864	30.3300	.2100		BUGG PR168,1466-68	
7.576	.522	.888	30.1000	.3600		COOL PR1,1887-70	
7.628	.536	.904	31.2700	.2000		BUGG PR168,1466-68	
7.741	.566	.938	32.1400	.1800		BUGG PR168,1466-68	
7.744	.567	.939	31.9800	.3400		COOL PR1,1887-70	
7.844	.594	.969	32.7200	.1900		BUGG PR168,1466-68	
7.847	.595	.970	32.4000	.5000		COOK PRL7,182-61	
7.911	.612	.989	33.2000	.2400		COOL PR1,1887-70	
8.046	.648	1.029	34.2900	.1600		BUGG PR168,1466-68	
8.083	.657	1.040	34.7700	.2400		COOL PR1,1887-70	
8.233	.697	1.084	35.9000	.1500		BUGG PR168,1466-68	
8.256	.704	1.091	36.0400	.2400		COOL PR1,1887-70	
8.425	.749	1.140	37.3400	.1500		BUGG PR168,1466-68	
8.428	.749	1.141	37.2200	.1500		COOL PR1,1887-70	
8.528	.776	1.170	35.4000	.5000		COOK PRL7,182-61	
8.594	.794	1.189	37.3600	.1500		BUGG PR168,1466-68	
8.601	.795	1.191	37.6900	.1200		COOL PR1,1887-70	
8.764	.839	1.238	37.4600	.2300		BUGG PR168,1466-68	
8.778	.843	1.242	37.5700	.1100		COOL PR1,1887-70	
8.953	.889	1.292	37.4300	.1000		COOL PR1,1887-70	
8.956	.890	1.293	37.4300	.1300		BUGG PR168,1466-68	
8.981	.897	1.300	35.6000	.6000		COOK PRL7,182-61	
9.128	.936	1.342	36.9900	.1200		COOL PR1,1887-70	
9.146	.941	1.347	37.4100	.1500		BUGG PR168,1466-68	
9.305	.983	1.392	36.7800	.1200		COOL PR1,1887-70	
9.362	.998	1.408	36.9200	.1300		BUGG PR168,1466-68	
9.475	1.029	1.440	35.4000	.5000		COOK PRL7,182-61	
9.482	1.030	1.442	36.4300	.1000		COOL PR1,1887-70	
9.574	1.055	1.468	36.5300	.1500		BUGG PR168,1466-68	
9.660	1.078	1.492	36.2700	.1000		COOL PR1,1887-70	
9.867	1.133	1.550	36.0300	.1100		ABRAMS PR1,1917-70	
9.913	1.145	1.563	36.2900	.1200		BUGG PR168,1466-68	
10.021	1.174	1.593	35.8900	.0800		COOL PR1,1887-70	
10.046	1.181	1.600	35.9400	.1100		ABRAMS PR1,1917-70	
10.200	1.222	1.643	35.7800	.0800		COOL PR1,1887-70	
10.369	1.267	1.690	35.1000	.5000		COOK PRL7,182-61	
10.380	1.270	1.693	35.7600	.0600		COOL PR1,1887-70	
10.405	1.276	1.700	35.7800	.0800		ABRAMS PR1,1917-70	
10.560	1.318	1.743	35.8900	.0600		COOL PR1,1887-70	
10.586	1.325	1.750	35.9000	.0900		ABRAMS PR1,1917-70	
10.741	1.366	1.793	35.7000	.0600		COOL PR1,1887-70	
10.766	1.373	1.800	35.6800	.1000		ABRAMS PR1,1917-70	
10.947	1.421	1.850	35.6300	.0700		ABRAMS PR1,1917-70	
11.103	1.463	1.893	35.5300	.0600		COOL PR1,1887-70	
11.129	1.469	1.900	35.7000	.0700		ABRAMS PR1,1917-70	
11.292	1.513	1.945	35.1900	.1300		BUGG PR168,1466-68	
11.311	1.518	1.950	35.6900	.0600		ABRAMS PR1,1917-70	
11.383	1.537	1.970	34.6000	.5000		COOK PRL7,182-61	
11.467	1.559	1.993	35.4100	.0800		COOL PR1,1887-70	
11.493	1.566	2.000	35.6800	.0500		ABRAMS PR1,1917-70	
11.675	1.615	2.050	35.5500	.0700		ABRAMS PR1,1917-70	
11.832	1.657	2.093	35.4700	.0800		COOL PR1,1887-70	
11.857	1.663	2.100	35.3400	.0800		ABRAMS PR1,1917-70	
12.040	1.712	2.150	35.2800	.0700		ABRAMS PR1,1917-70	
12.197	1.754	2.193	35.2200	.1000		COOL PR1,1887-70	
12.223	1.761	2.200	35.2800	.0700		ABRAMS PR1,1917-70	
12.443	1.820	2.260	33.9000	.6000		COOK PRL7,182-61	
12.589	1.859	2.300	34.9800	.0700		ABRAMS PR1,1917-70	
12.773	1.908	2.350	35.0500	.0600		ABRAMS PR1,1917-70	
12.931	1.950	2.393	33.4500	.0800		COOL PR1,1887-70	
12.957	1.956	2.400	34.9200	.0600		ABRAMS PR1,1917-70	
13.141	2.005	2.450	35.0000	.0500		ABRAMS PR1,1917-70	
13.225	2.028	2.473	34.7800	.1100		BUGG PR168,1466-68	
13.324	2.054	2.500	34.8700	.0600		ABRAMS PR1,1917-70	
13.509	2.104	2.550	34.8700	.0400		ABRAMS PR1,1917-70	
13.509	2.104	2.550	33.4000	.5000		COOK PRL7,182-61	
13.693	2.153	2.600	34.8500	.0500		ABRAMS PR1,1917-70	
13.877	2.202	2.650	34.7500	.0500		ABRAMS PR1,1917-70	
14.062	2.251	2.700	34.7700	.0400		ABRAMS PR1,1917-70	
14.246	2.300	2.750	34.7200	.0500		ABRAMS PR1,1917-70	
14.431	2.349	2.800	34.6700	.0500		ABRAMS PR1,1917-70	
14.542	2.379	2.830	33.4000	.7000		COOK PRL7,182-61	
14.616	2.399	2.850	34.5200	.0500		ABRAMS PR1,1917-70	
14.801	2.448	2.900	34.4800	.0400		ABRAMS PR1,1917-70	
14.986	2.497	2.950	34.4200	.0400		ABRAMS PR1,1917-70	
15.171	2.547	3.000	34.3500	.0400		ABRAMS PR1,1917-70	
15.356	2.596	3.050	34.3400	.0400		ABRAMS PR1,1917-70	
15.541	2.645	3.100	34.3000	.0400		ABRAMS PR1,1917-70	
15.726	2.695	3.150	34.1400	.0400		ABRAMS PR1,1917-70	
15.912	2.744	3.200	34.1200	.0400		ABRAMS PR1,1917-70	
16.097	2.793	3.250	34.2000	.0400		ABRAMS PR1,1917-70	
16.283	2.843	3.300	34.1300	.0400		ABRAMS PR1,1917-70	
26.351	5.526	6.000	33.4000	.3000		GALBR.PR138B,913-65	
33.836	7.521	8.000	33.9000	.3000		GALBR.PR138B,913-65	
41.329	9.518	10.000	33.8000	.3000		GALBR.PR138B,913-65	
48.825	11.516	12.000	33.9000	.3000		GALBR.PR138B,913-65	

K+DE

		S	K.ENERGY	PLAB	CROSS SECTION	ERROR +	ERROR -	REFERENCE	FOOT-NOTES
..... REACTION 281									
TOTAL		56.324	13.515	14.000	33.8000	.3000		GALBR.PR138B,913-65	
(CONTINUATION)		60.074	14.514	15.000	34.4400	.2000		DENISOV,PL36B,415-71	S5
		63.824	15.514	16.000	33.4000	.3000		GALBR.PR138B,913-65	
		71.325	17.513	18.000	33.7000	.3000		GALBR.PR138B,913-65	
		78.826	19.512	20.000	34.2000	.3000		GALBR.PR138B,913-65	
		78.826	19.512	20.000	34.6100	.2300		DENISOV,PL36B,415-71	S5
		97.582	24.511	25.000	34.7100	.2000		DENISOV,PL36B,415-71	S5
		116.338	29.510	30.000	34.6600	.2000		DENISOV,PL36B,415-71	S5
		135.096	34.510	35.000	35.1500	.2000		DENISOV,PL36B,415-71	S5
		153.855	39.509	40.000	35.4200	.2000		DENISOV,PL36B,415-71	S5
		172.613	44.509	45.000	35.4000	.2000		DENISOV,PL36B,415-71	S5
		191.372	49.509	50.000	35.6000	.2000		DENISOV,PL36B,415-71	S5
		210.132	54.508	55.000	35.8000	.2000		DENISOV,PL36B,415-71	S5
	THRESHOLD	5.62	0.00	0.00				118 DATA POINTS LISTED	
					FIT OF SIGMA AGAINST PLAB GEV/C				
					17 DATA POINTS USED ABOVE 4.0 GEV/C , PROB. = .99				
					K = 31.26 +- .56 N =+ .03 +- .01				
..... REACTION 282									
DEK+PI+PI-		12.589	1.859	2.300	.1100	.0160		BUTTERW.PRL15,500-65	
	THRESHOLD	7.02	.37	.71					
..... REACTION 283									
DEKOPI+		12.589	1.859	2.300	.1500	.0350		BUTTERW.PRL15,500-65	
	THRESHOLD	6.30	.18	.46					
..... REACTION 284									
PPK+PI-		7.323	.455	.810	.5100	.0900		FISK,358,CERN62	
		15.060	2.517	2.970	2.8000	.2000		BASSO. NP B16,125-70	
		48.825	11.516	12.000	.4000	.0080		FIRESTO,PRL26,1460-70	
	THRESHOLD	6.30	.18	.46				3 DATA POINTS LISTED	
..... REACTION 285									
PPKO		5.812	.052	.233	1.0000	.4000	.3000	SLATER PRL7,378-61	
		5.992	.100	.330	2.7000	.4000		SLATER PRL7,378-61	
		6.094	.127	.377	3.1000	.4000		SLATER PRL7,378-61	
		6.481	.231	.530	6.5000	.6000		SLATER PRL7,378-61	
		6.799	.315	.641	6.7000	.6000		SLATER PRL7,378-61	
		7.326	.456	.811	6.6000	.7000		SLATER PRL7,378-61	
		7.500	.502	.865	6.7200	.4000		HIRATA,NPB30,157-71	
		7.847	.595	.970	6.2600	.2900		HIRATA,NPB30,157-71	
		8.667	.813	1.210	4.9900	.2400		HIRATA,NPB30,157-71	
		9.210	.958	1.365	3.6900	.2900		HIRATA,NPB30,157-71	
		9.992	1.166	1.585	2.6500	.2200		HIRATA,NPB30,157-71	
		24.482	5.028	5.500	.1748	.0200		CLINE,NPB22,247-70	
	THRESHOLD	5.62	.00	.01				12 DATA POINTS LISTED	
..... REACTION 286									
PPKOPIO		15.060	2.517	2.970	1.6000	.1000		BASSO. NP B16,125-70	
	THRESHOLD	6.30	.18	.46					
..... REACTION 287									
PPKSPIO		7.323	.455	.810	.2300	.1400		FISK,358,CERN62	
	THRESHOLD	6.32	.19	.47					
..... REACTION 288									
PNKOPI+		15.060	2.517	2.970	4.0000	.3000		BASSO. NP B16,125-70	
	THRESHOLD	6.31	.18	.47					
..... REACTION 289									
PNKSPI+		7.323	.455	.810	.2700	.1400		FISK,358,CERN62	P
		7.323	.455	.810	.7700	.2000		FISK,358,CERN62	N
	THRESHOLD	6.33	.19	.47				2 DATA POINTS LISTED	
..... REACTION 290									
AOM+		48.825	11.516	12.000	.1000	ERROR NOT GIVEN		FIRESTON,PRL26,410-71	O
	THRESHOLD	2.79	0.00	0.00					

FOOTNOTES

S5=SYSTEMATIC ERROR IS 0.5 PER CENT
P=PROTON IS A SPECTATOR
N=NEUTRON IS A SPECTATOR
O=ORDER OF MAGNITUDE

PLOTS OF CROSS SECTION

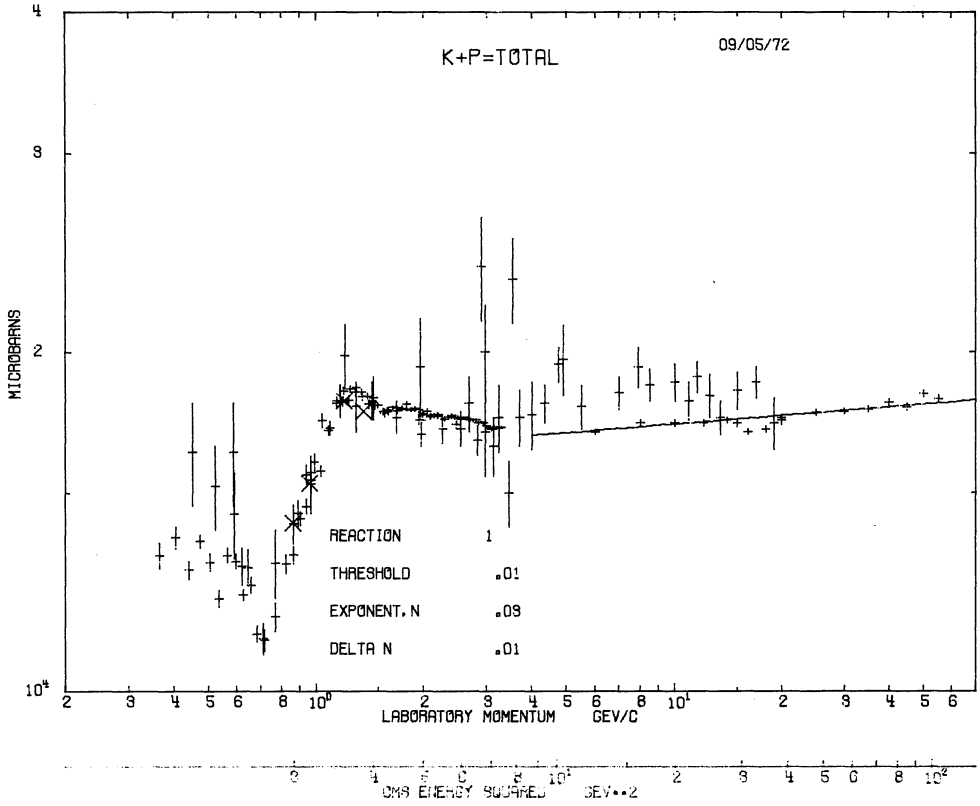
VERSUS INCIDENT LABORATORY MOMENTUM

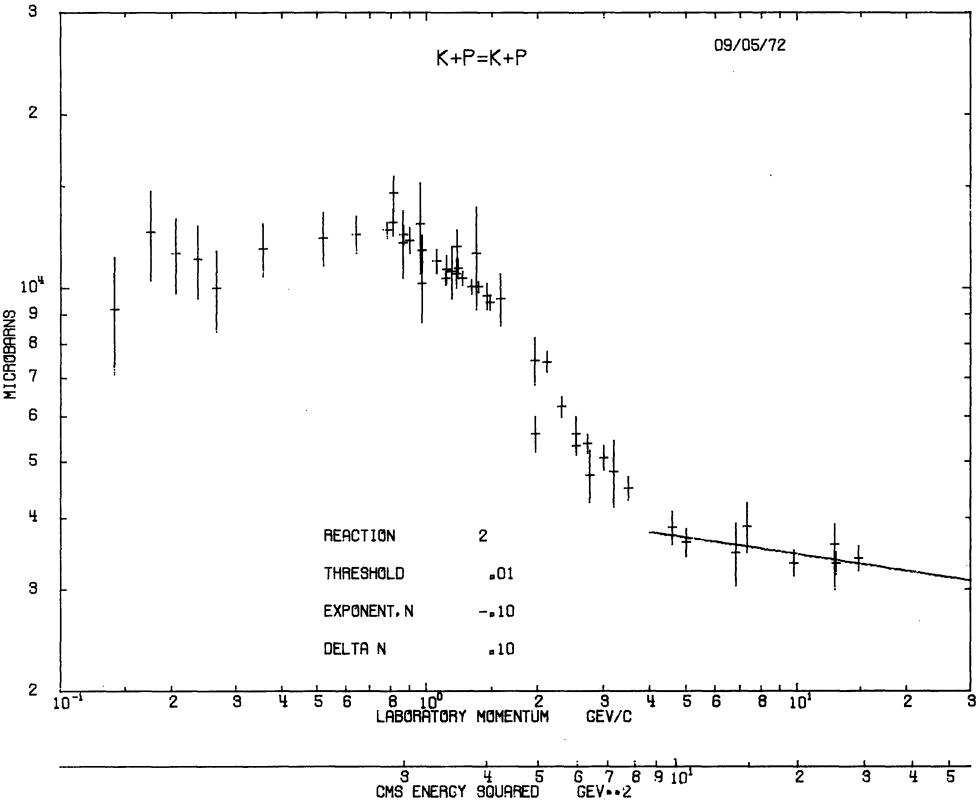
Description

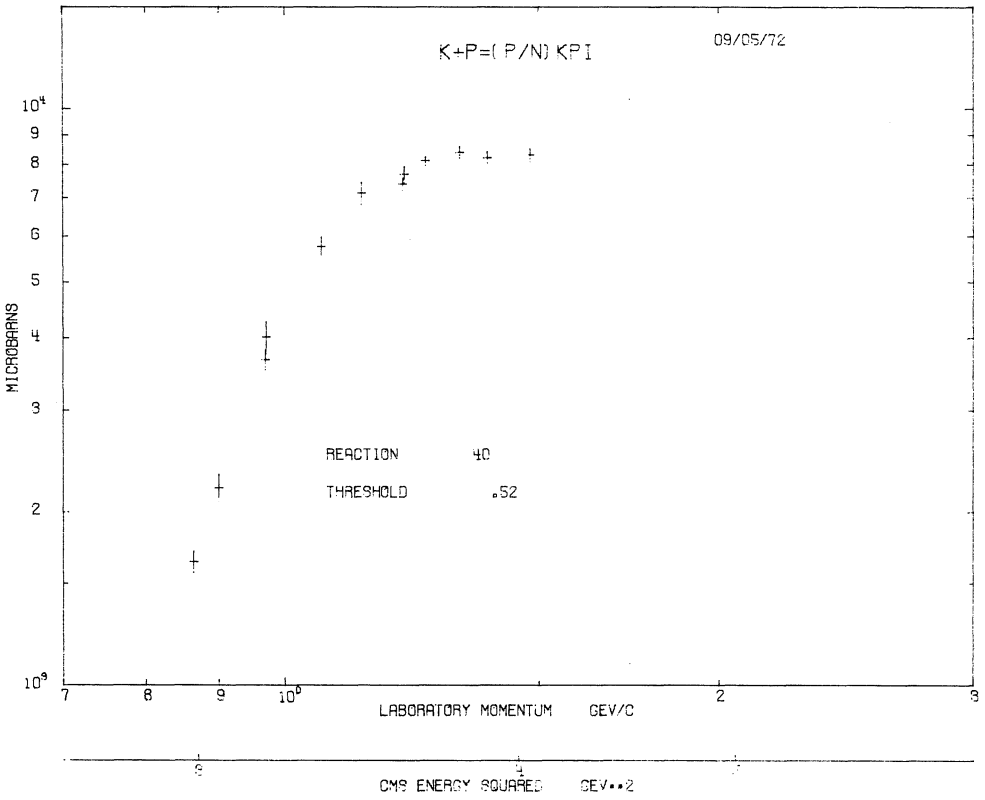
For those reactions having a sufficient number of data points, a graph is given of the cross section, σ, versus the momentum, p_{Lab} on log-log scales.

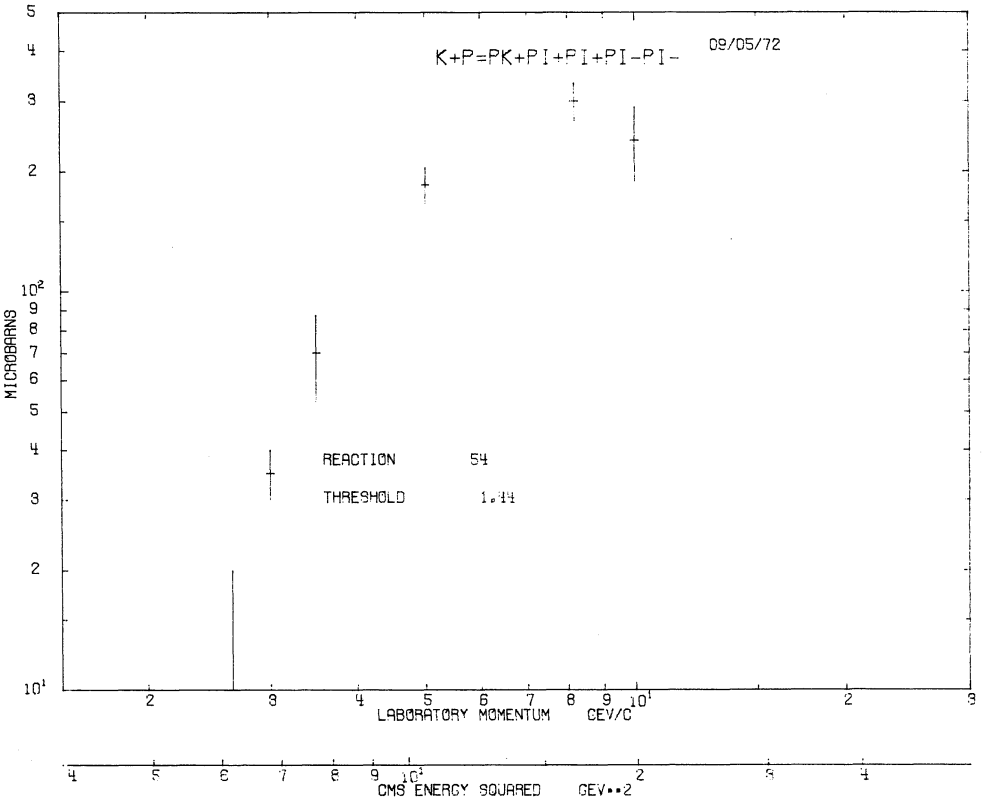
Errors are shown whenever they have been given. If no errors have been published, the data point is given as a cross, X. If only an upper limit is quoted, this is shown as a short horizontal bar together with a line extending to the bottom of the graph.

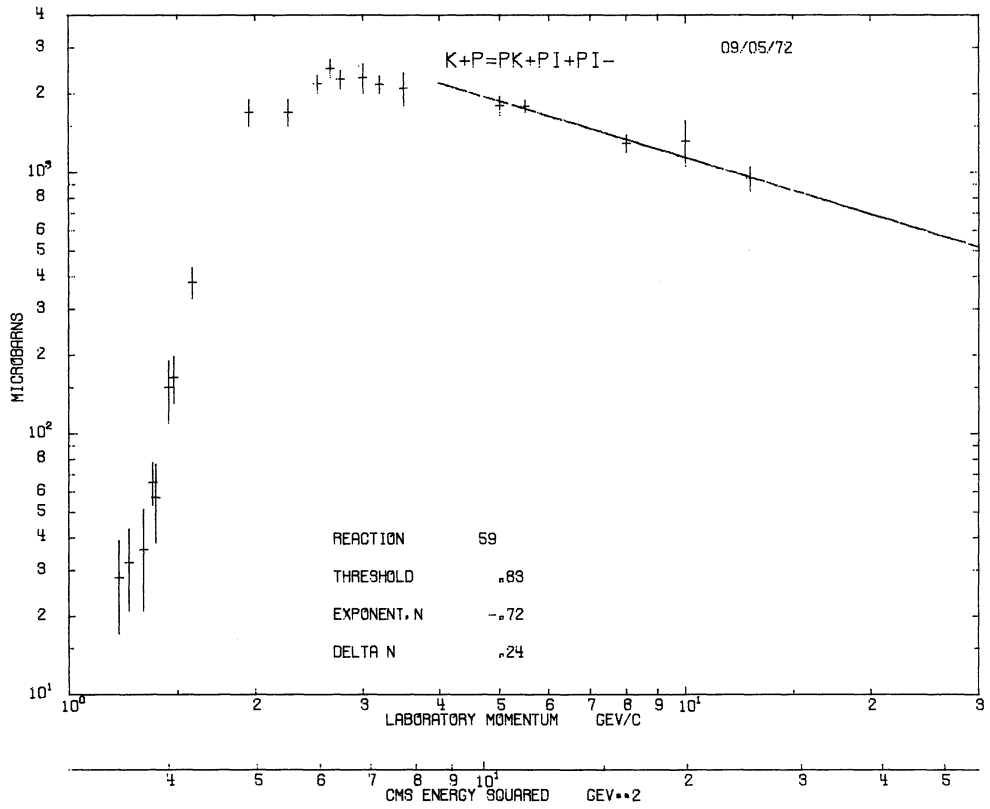
Lines drawn on the graph are fits to the high energy data of the formula (1), i.e. σ = constant. $(p_{Lab})^{+n}$, and the value of the exponent, n and its error are printed on the graph.

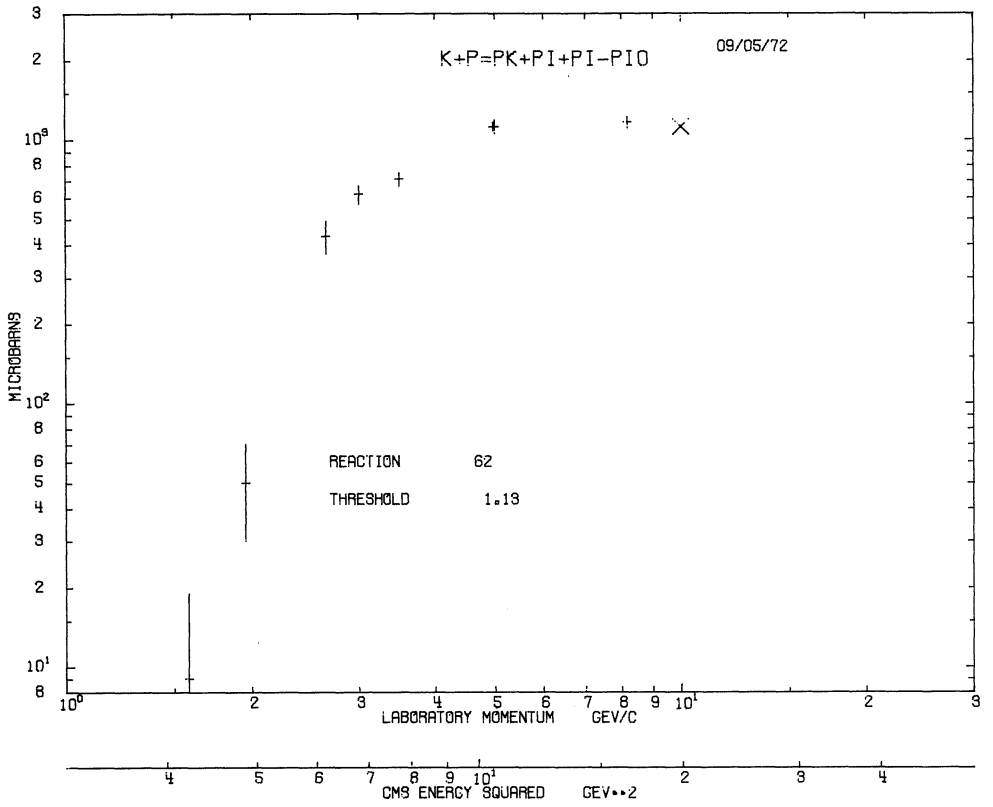

K+P=TØTAL
09/05/72
MICROBARNS
REACTION 1
THRESHOLD .01
EXPONENT, N .09
DELTA N .01
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

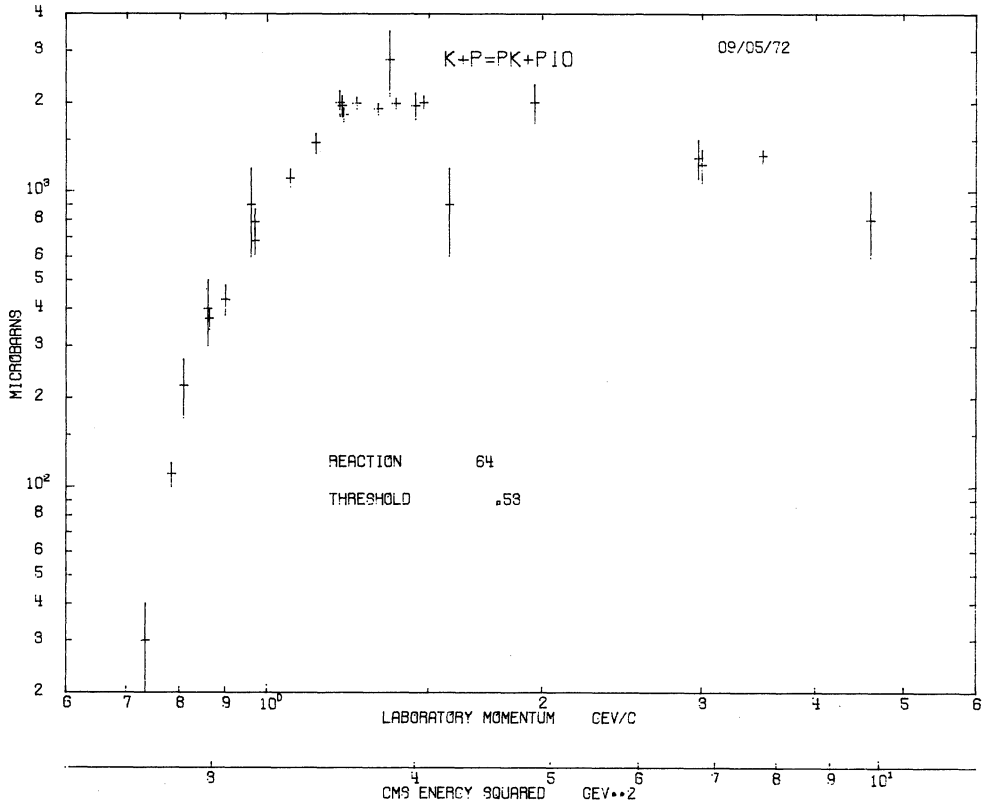

K+P=K+P
09/05/72
MICROBARNS
REACTION 2
THRESHOLD .01
EXPONENT, N -.10
DELTA N .10
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

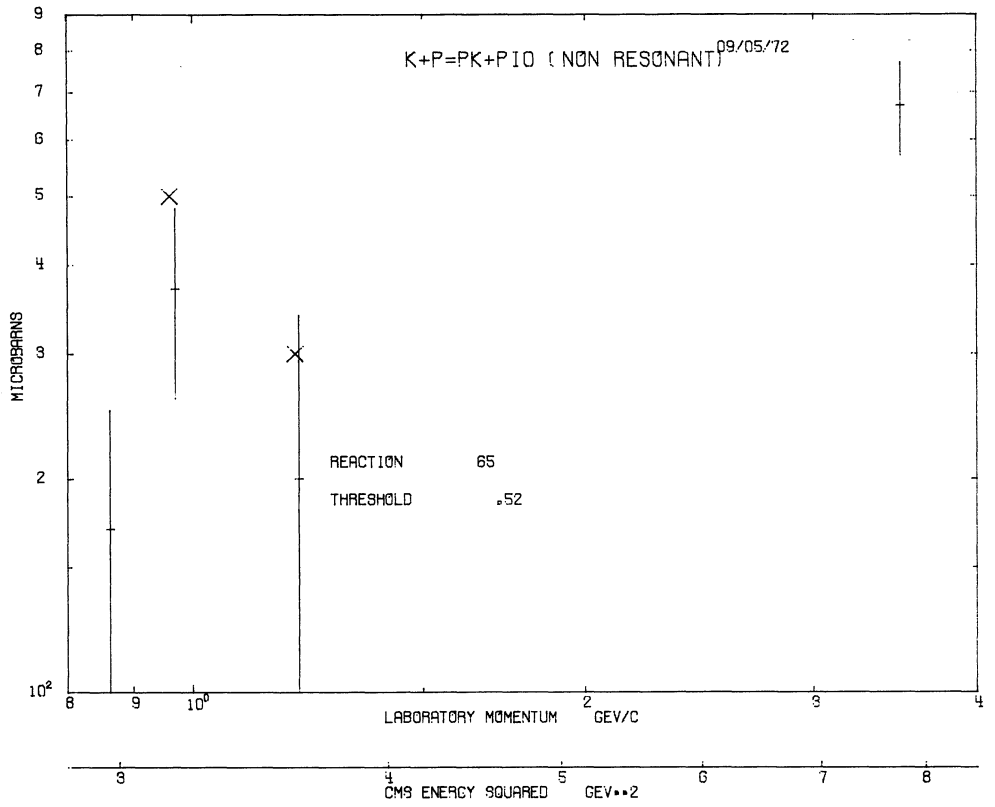

K+P=(P/N) KPI
09/05/72
MICROBARNS
REACTION 40
THRESHOLD .52
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

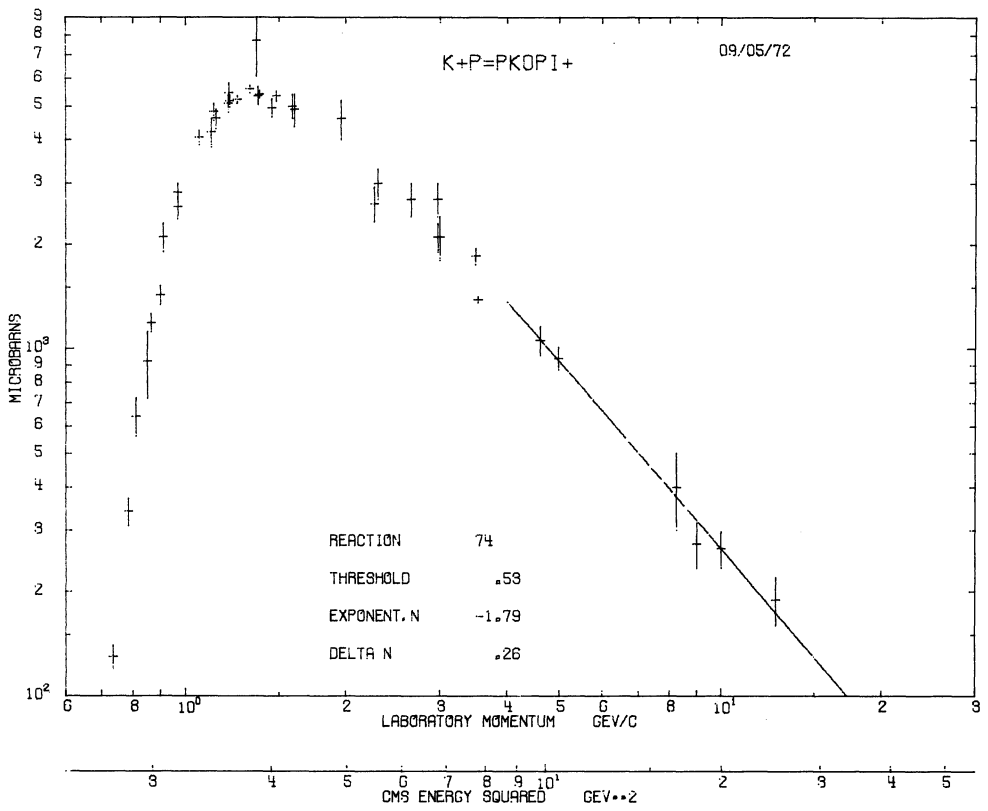

K+P=PK+PI+PI+PI-PI-
09/05/72
MICROBARNS
REACTION 54
THRESHOLD 1.44
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

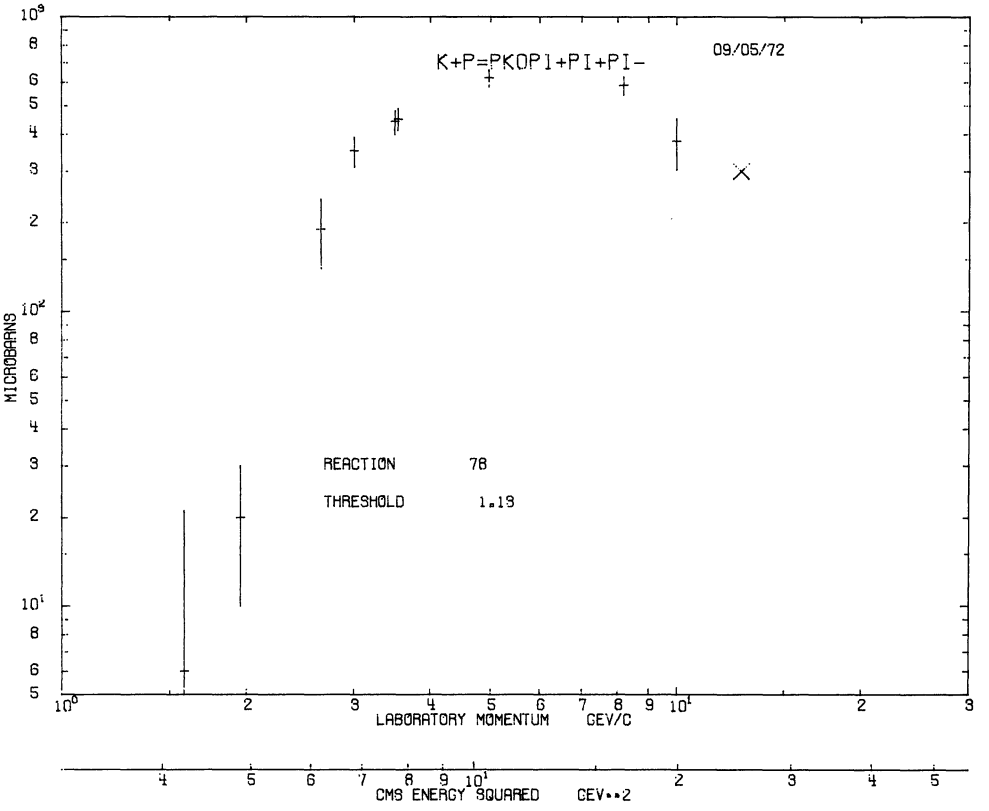

K+P=PK+PI+PI-
09/05/72
MICROBARNS
REACTION 59
THRESHOLD .83
EXPONENT, N -.72
DELTA N .24
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

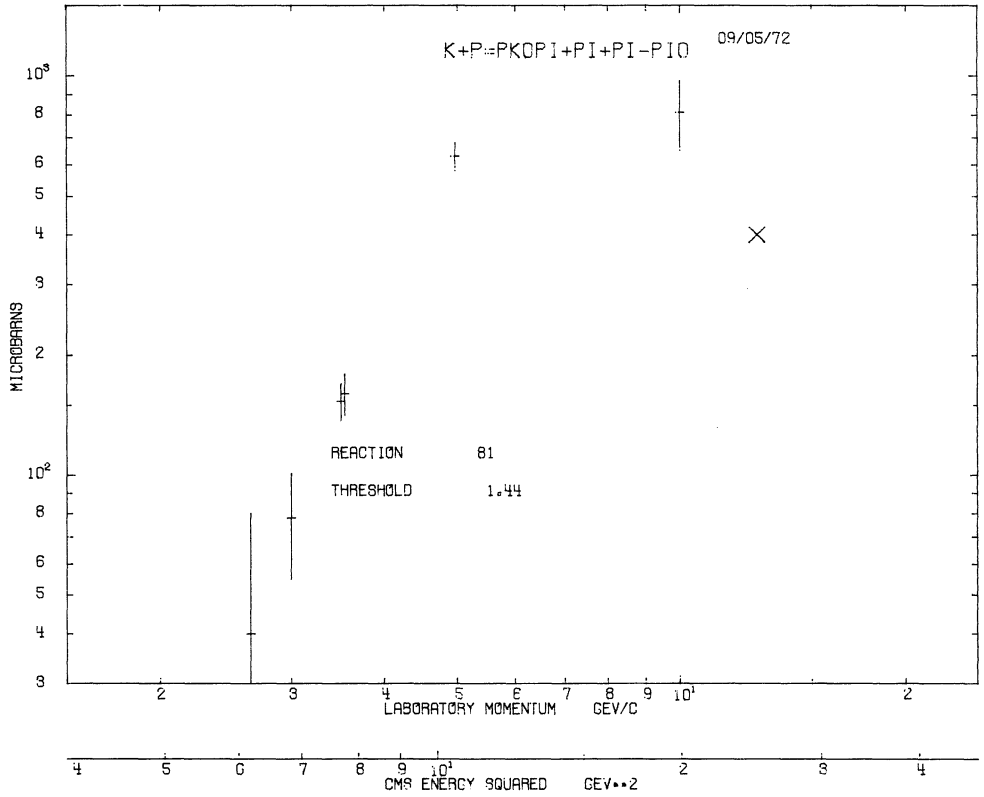

K+P=PK+PI+PI-PIO
09/05/72
MICROBARNS
REACTION 62
THRESHOLD 1.13
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

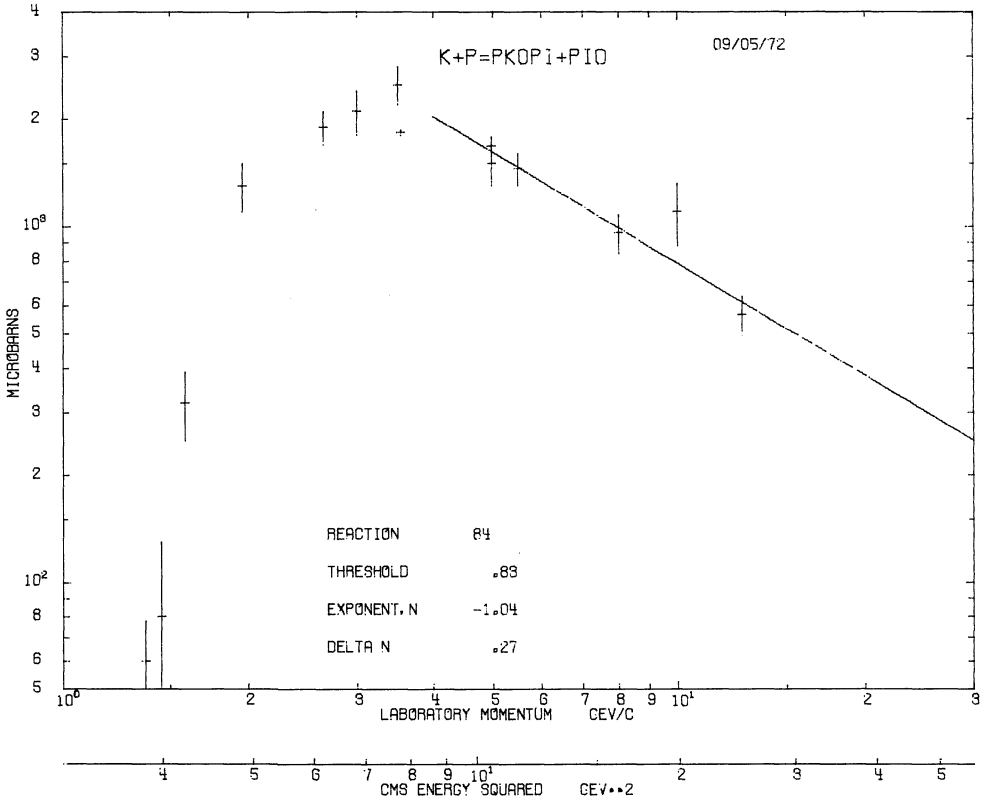

K+P=PK+PIO
09/05/72
MICROBARNS
REACTION 64
THRESHOLD .53
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

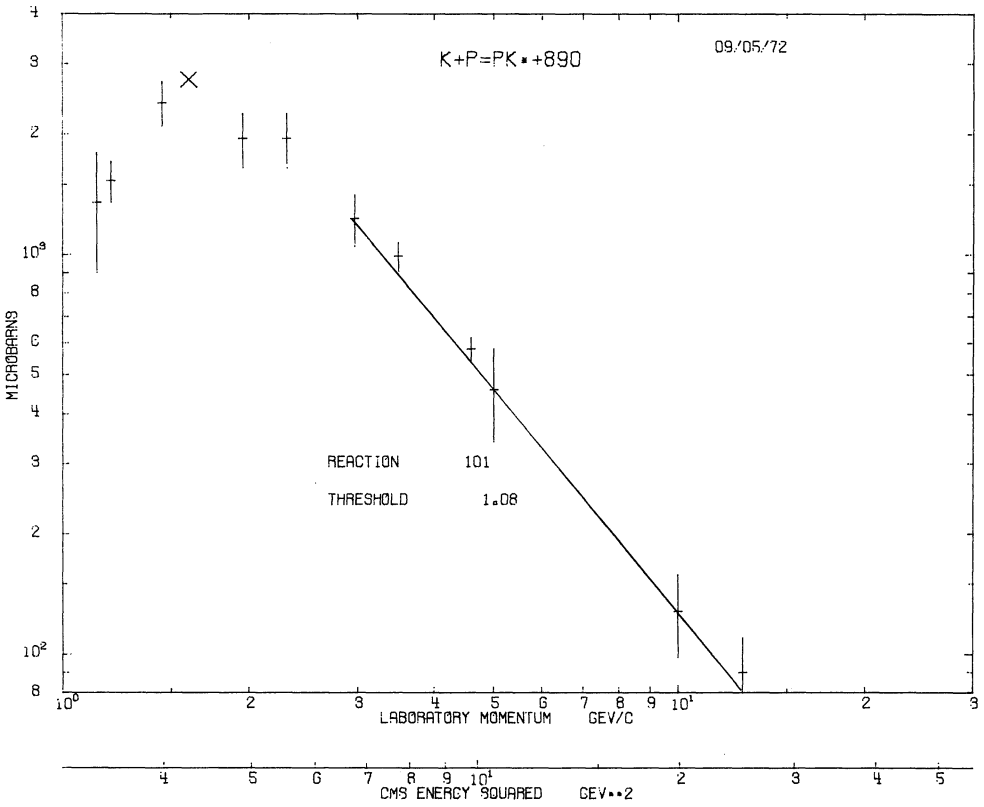

K+P=PK+PIO (NON RESONANT)
09/05/72
MICROBARNS
REACTION 65
THRESHOLD .52
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

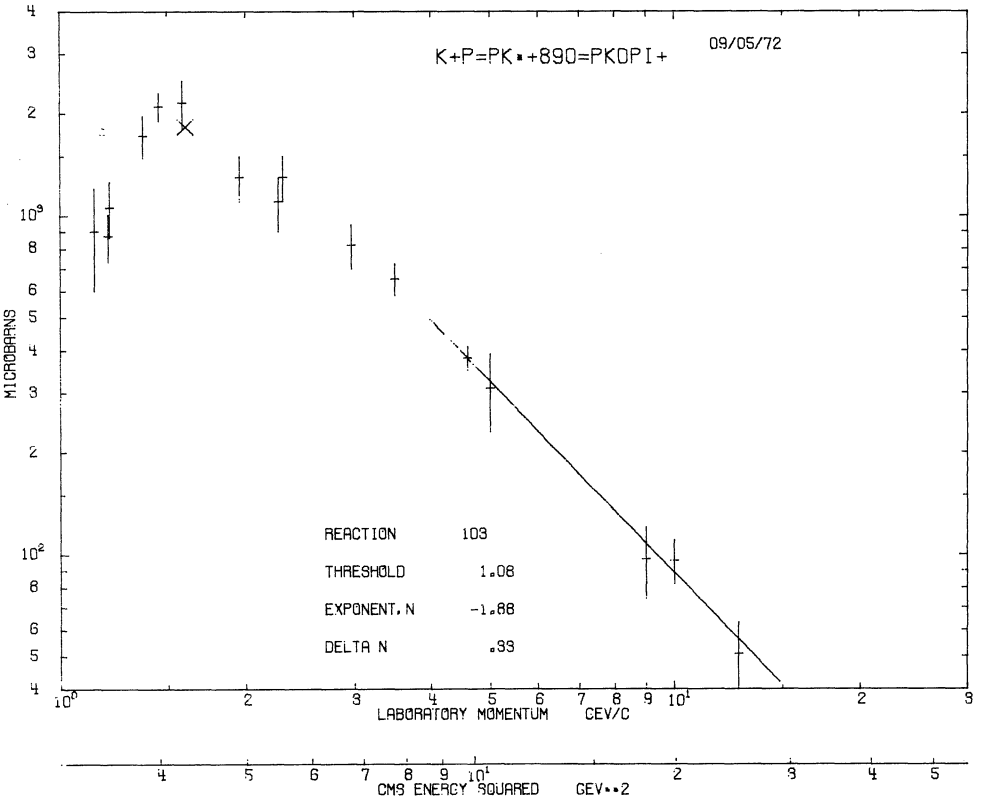

K+P=PKOPI+
09/05/72
MICROBARNS
REACTION 74
THRESHOLD .58
EXPONENT.N -1.79
DELTA N .26
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

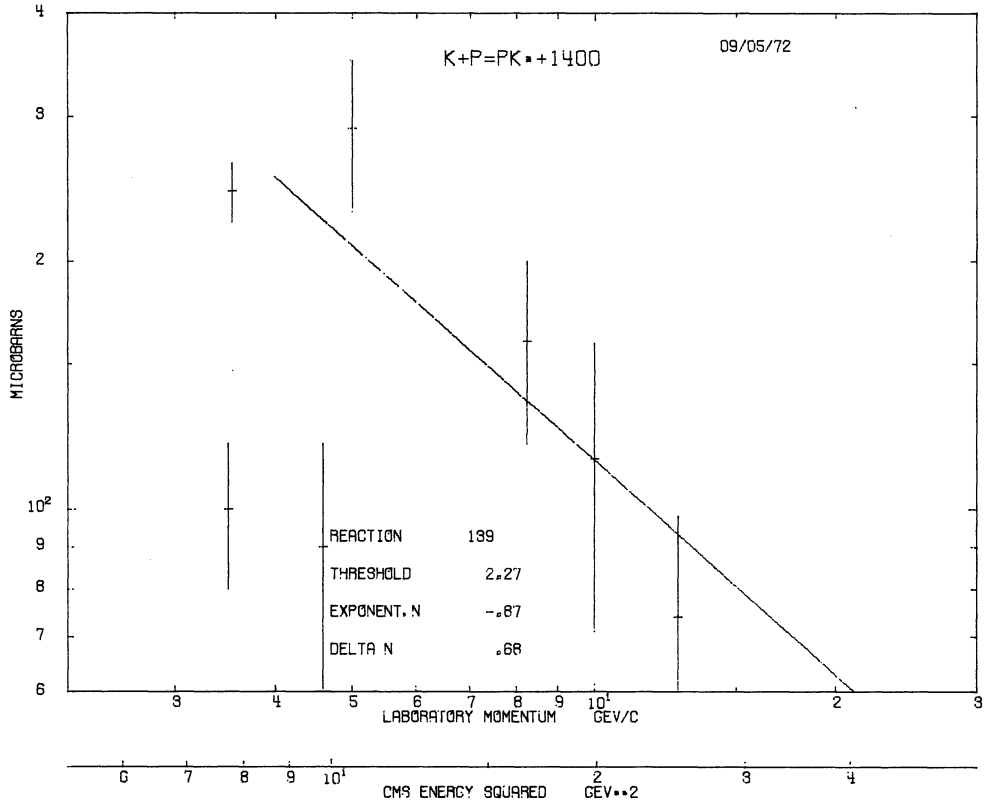

K+P=PKOPI+PI+PI-
09/05/72
MICROBARNS
REACTION 78
THRESHOLD 1.19
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

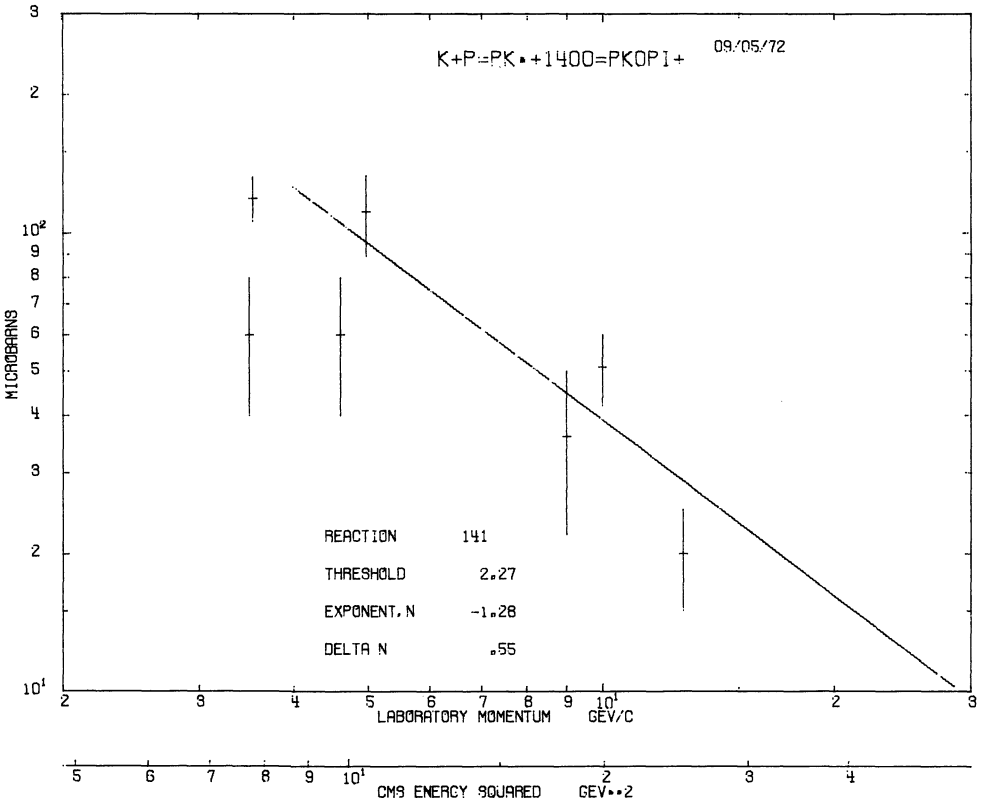

K+P=PKOPI+PI+PI-PIO
09/05/72
MICROBARNS
REACTION 81
THRESHOLD 1.44
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

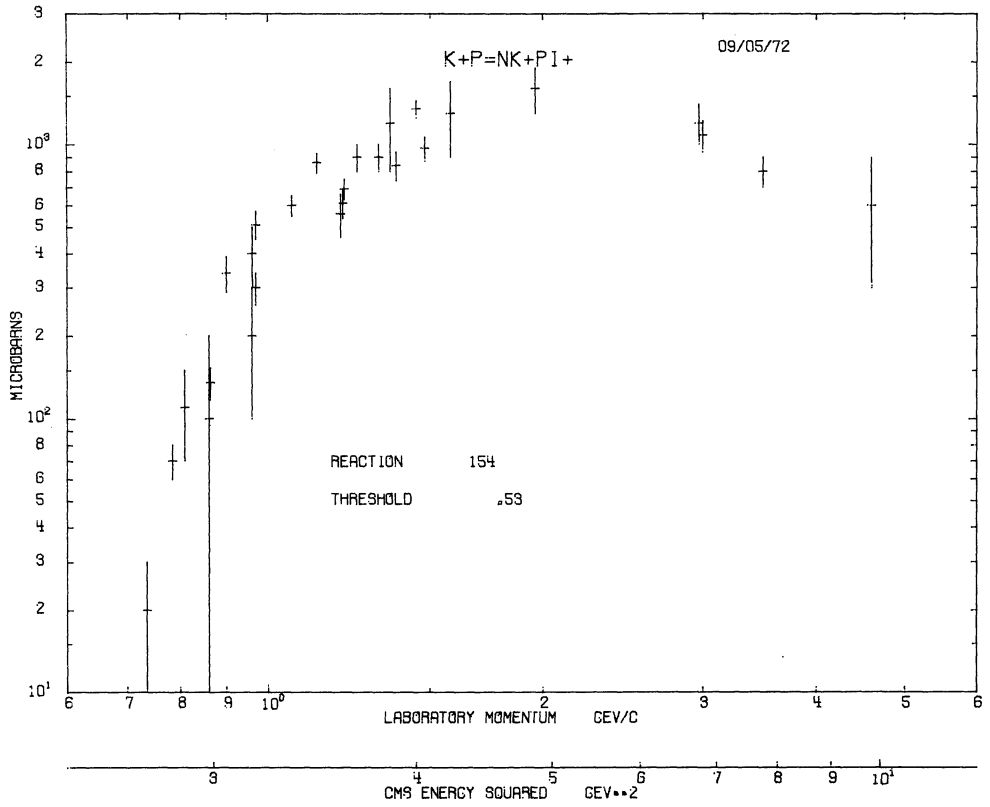

K+P=PKOPI+PIO
09/05/72
MICROBARNS
REACTION 84
THRESHOLD .83
EXPONENT, N -1.04
DELTA N .27
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

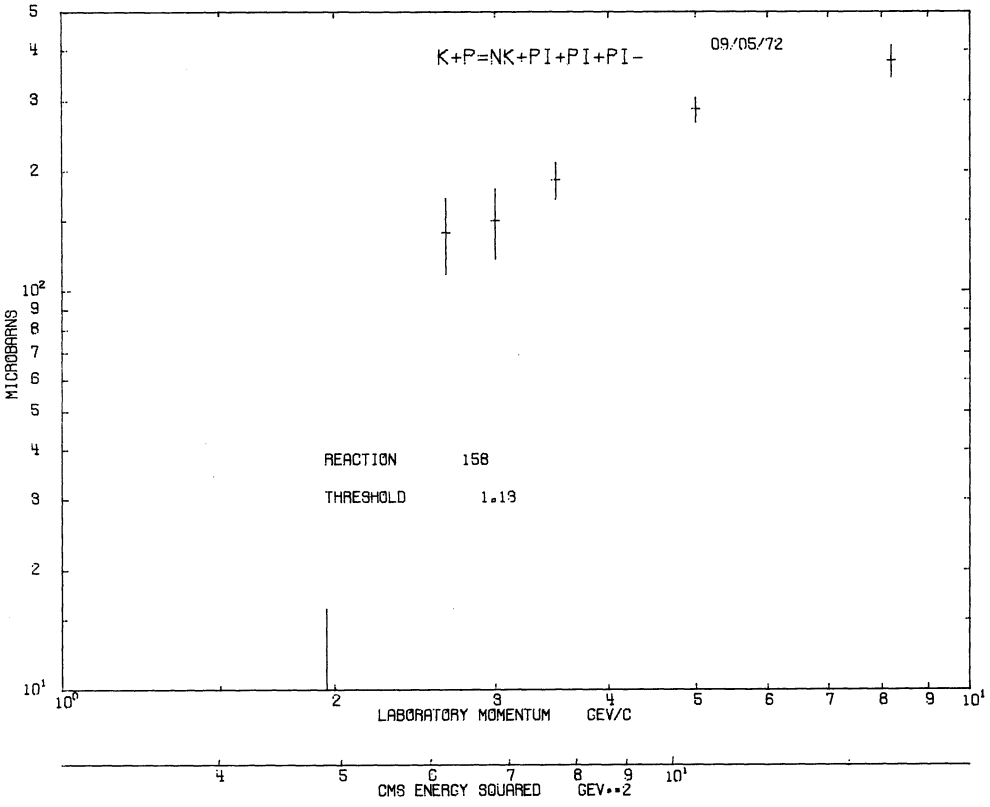

K+P=PK*+890
09/05/72
MICROBARNS
REACTION 101
THRESHOLD 1.08
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

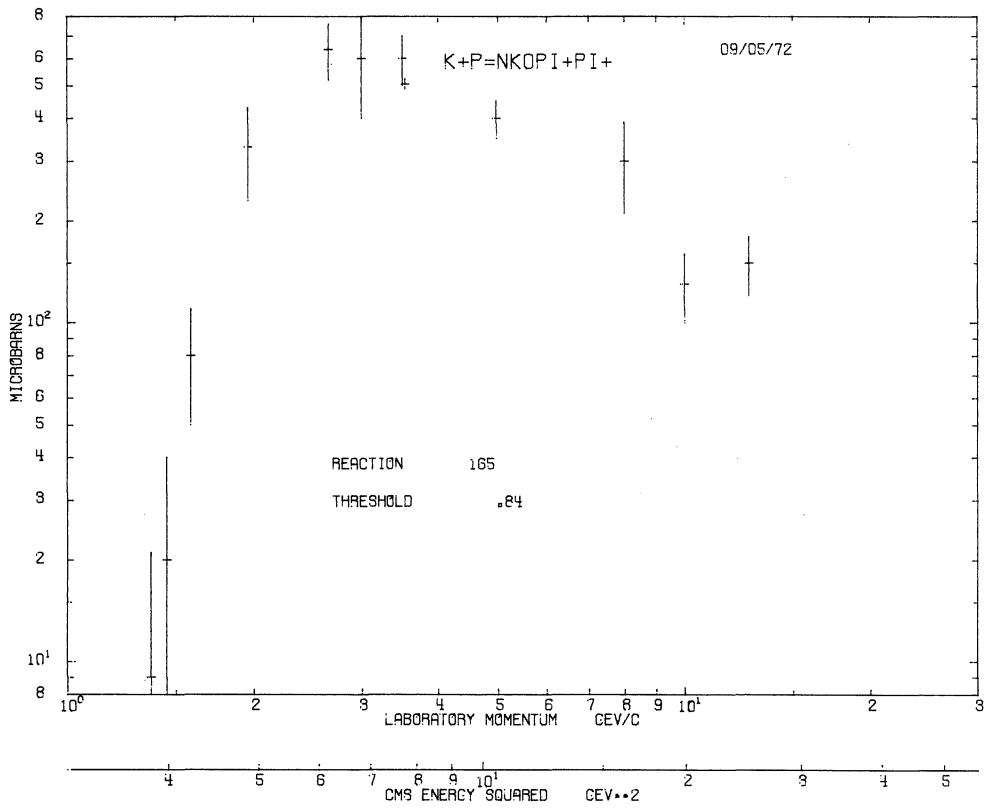

K+P=PK*+890=PKOPI+
09/05/72
MICROBARNS
REACTION 103
THRESHOLD 1.08
EXPONENT, N -1.88
DELTA N .93
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

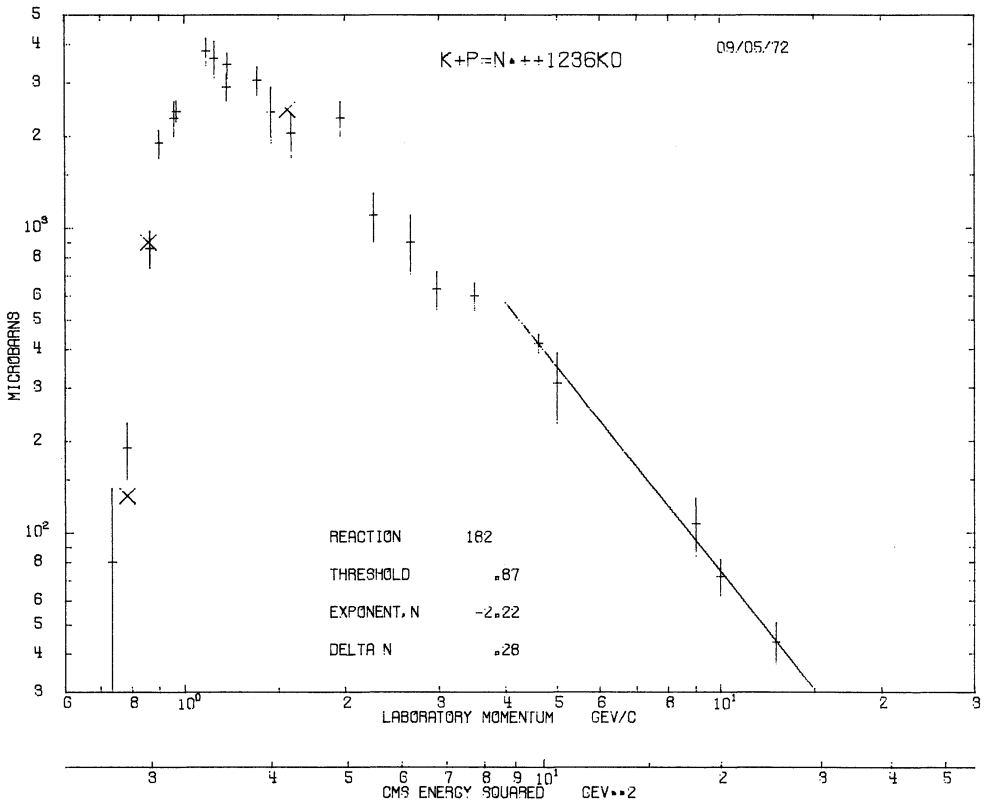

K+P=PK*+1400
09/05/72
MICROBARNS
REACTION 139
THRESHOLD 2.27
EXPONENT.N -.87
DELTA N .68
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

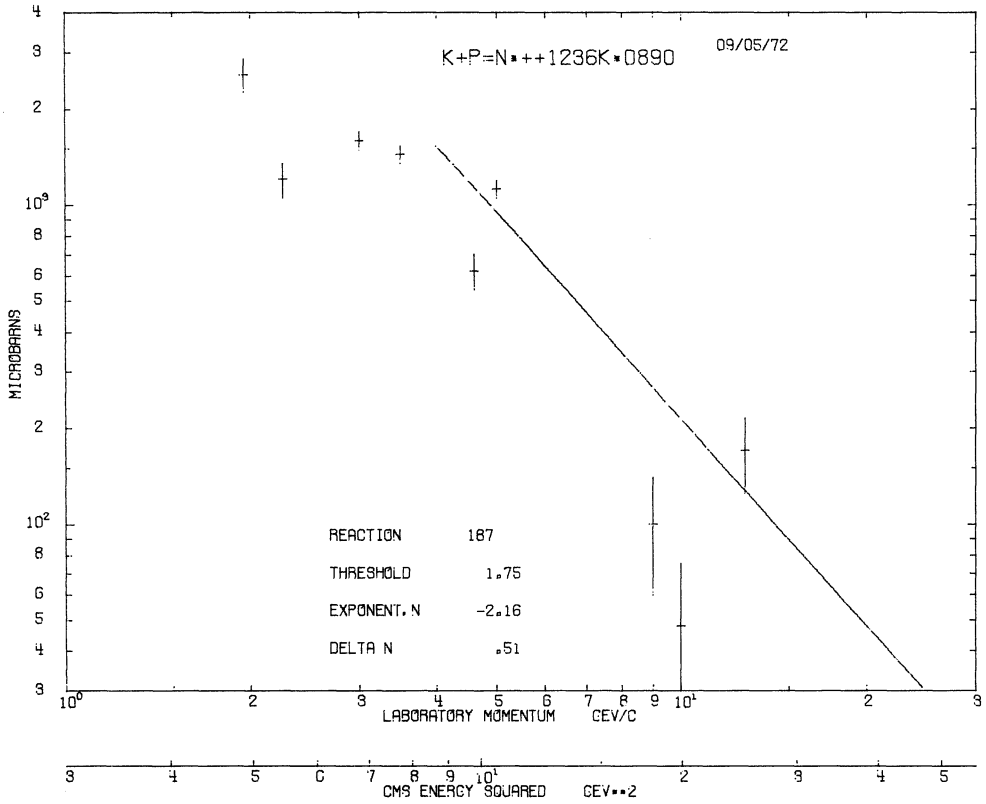

K+P=PK*+1400=PKOPI+
09/05/72
MICROBARNS
REACTION 141
THRESHOLD 2.27
EXPONENT.N -1.28
DELTA N .55
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

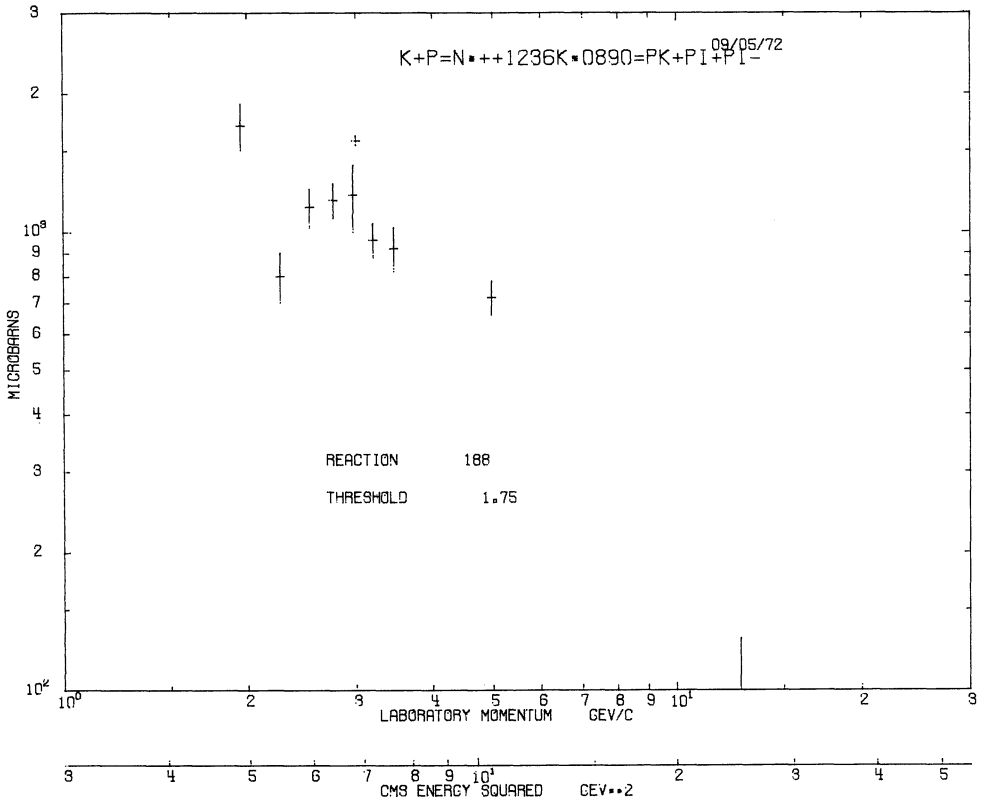

K+P=NK+PI+
09/05/72
MICROBARNS
REACTION 154
THRESHOLD .53
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

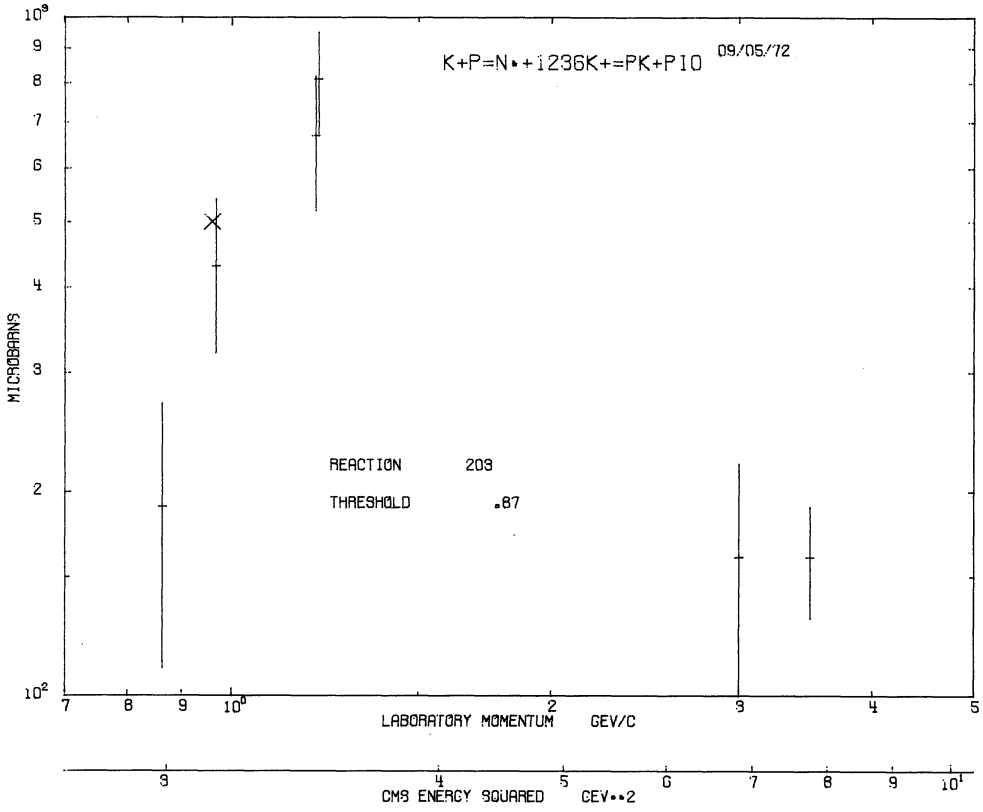

K+P=NK+PI+PI+PI-
09/05/72
MICROBARNS
REACTION 158
THRESHOLD 1.13
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

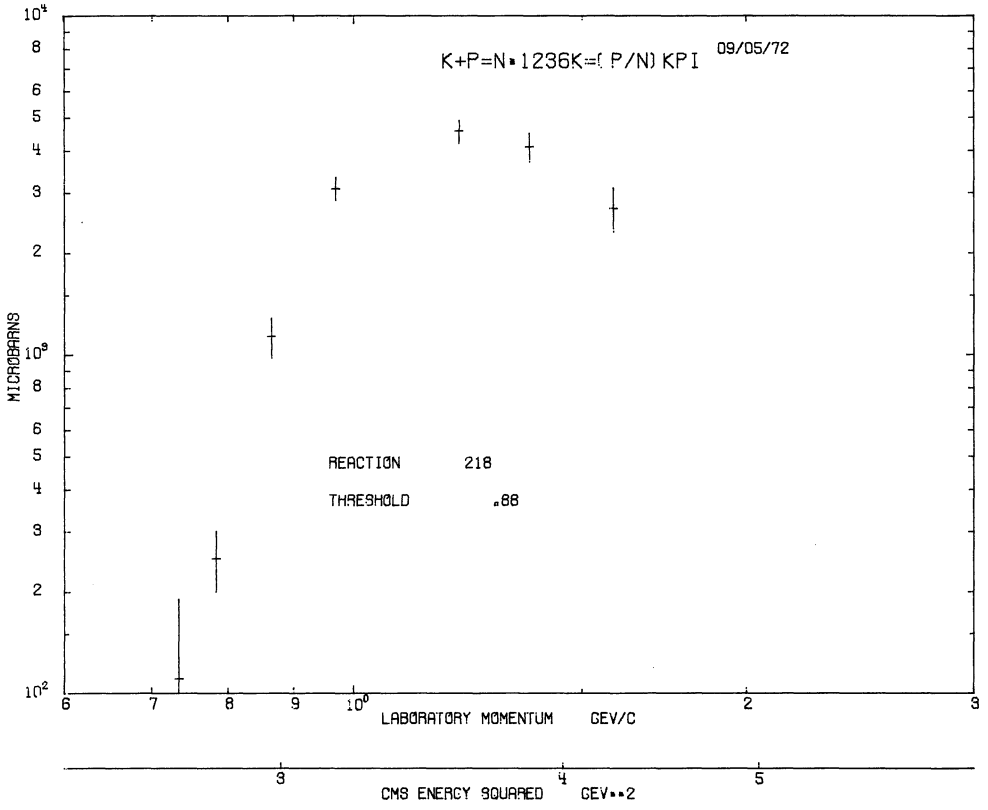

K+P=NKOPI+PI+
09/05/72
REACTION 165
THRESHOLD .84
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

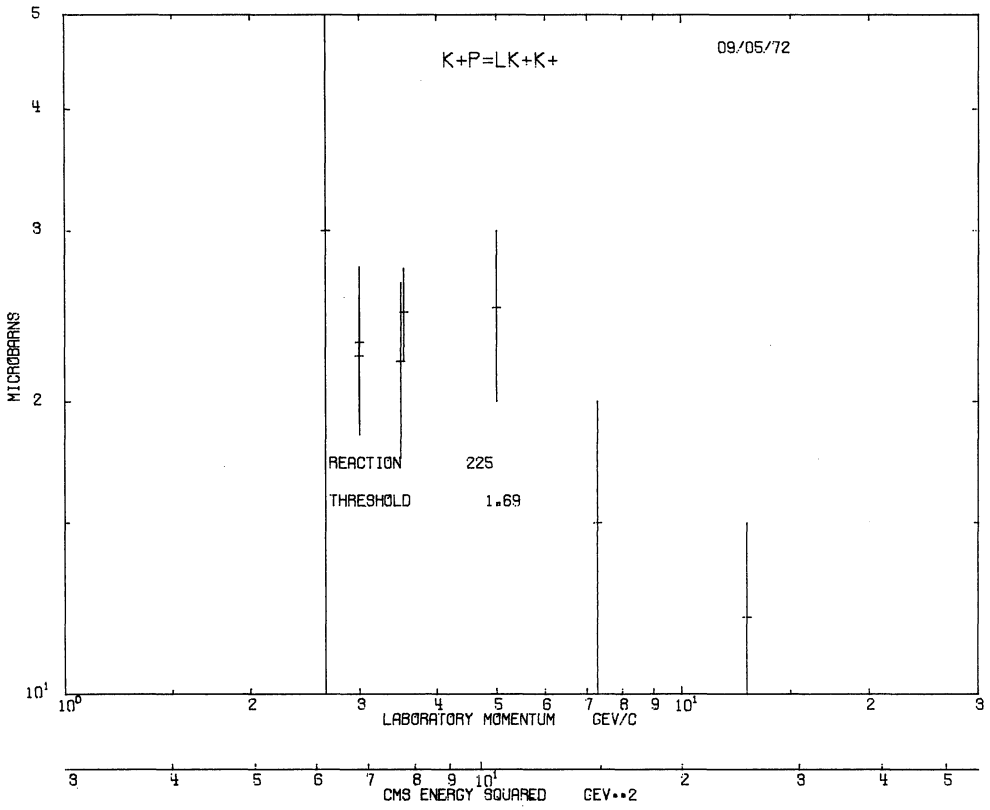

K+P=N*++1236K0
09/05/72
REACTION 182
THRESHOLD .87
EXPONENT, N -2.22
DELTA N .28
MICROBARNS
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

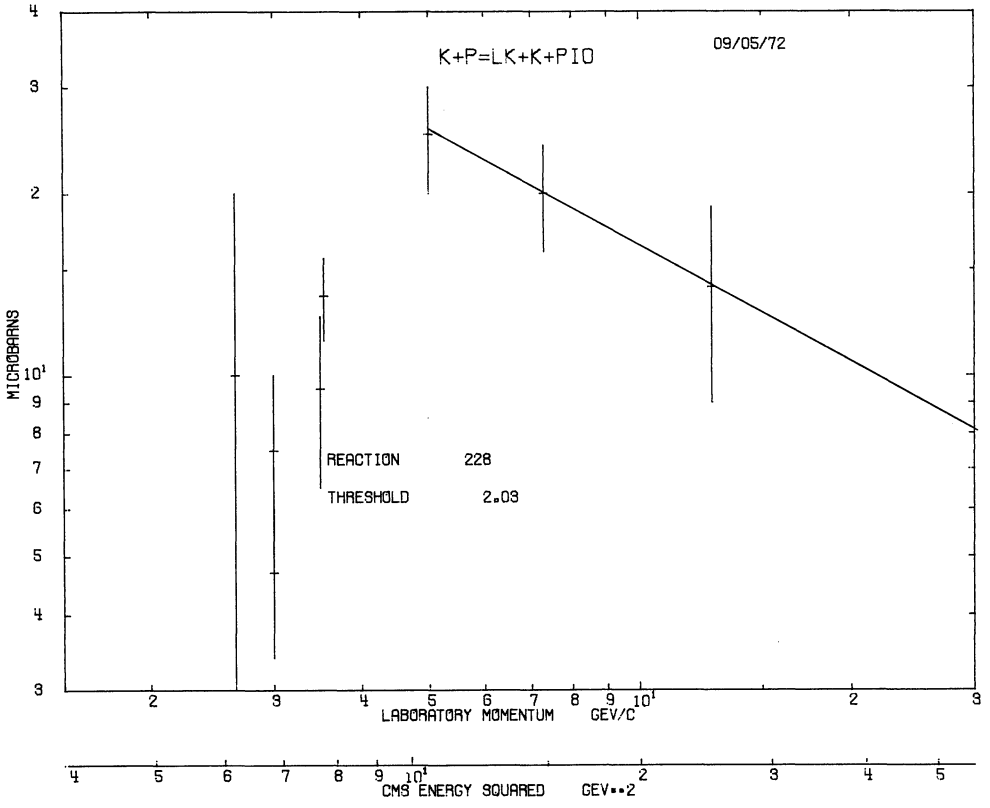

K+P=N*++1236K*0890
09/05/72
MICROBARNS
REACTION 187
THRESHOLD 1.75
EXPONENT. N -2.16
DELTA N .51
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

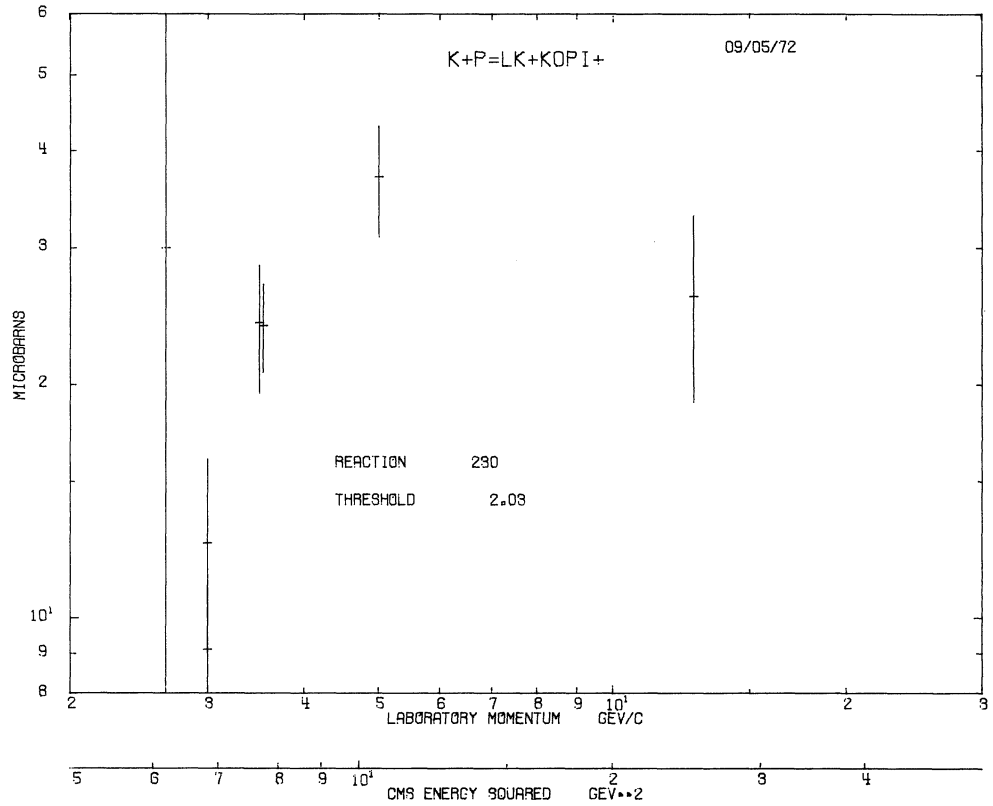

K+P=N*++1236K*0890=PK+PI+PI-
09/05/72
MICROBARNS
REACTION 188
THRESHOLD 1.75
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

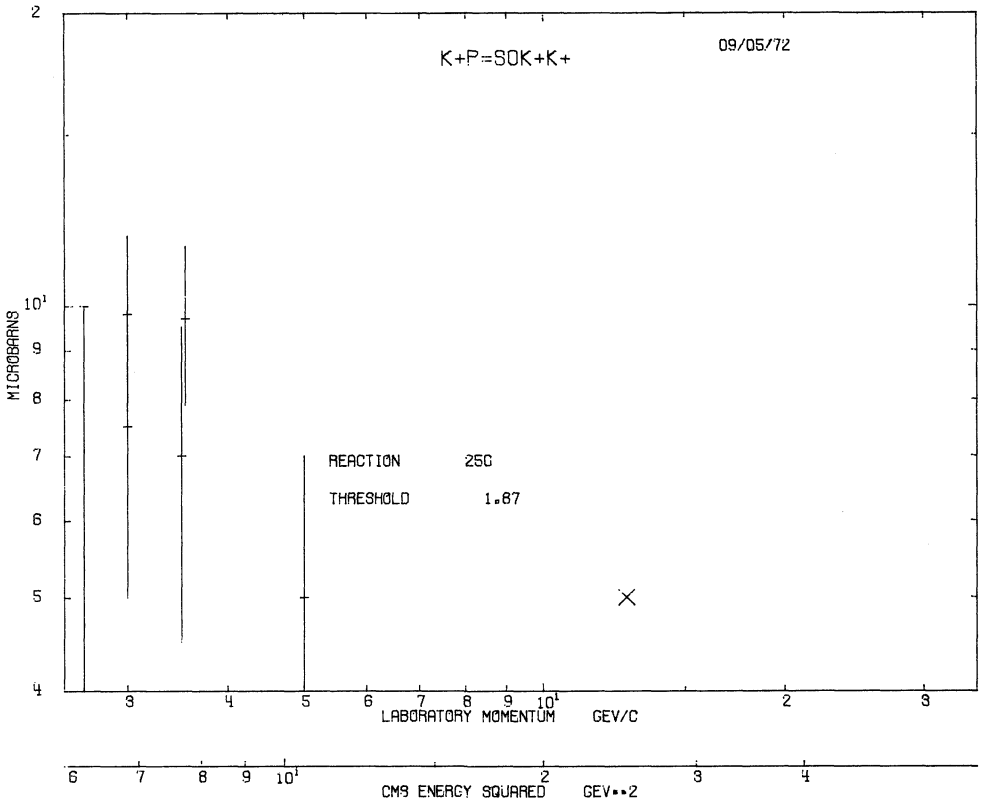

K+P=N*+1236K+=PK+PI0
09/05/72
MICROBARNS
REACTION 203
THRESHOLD .87
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

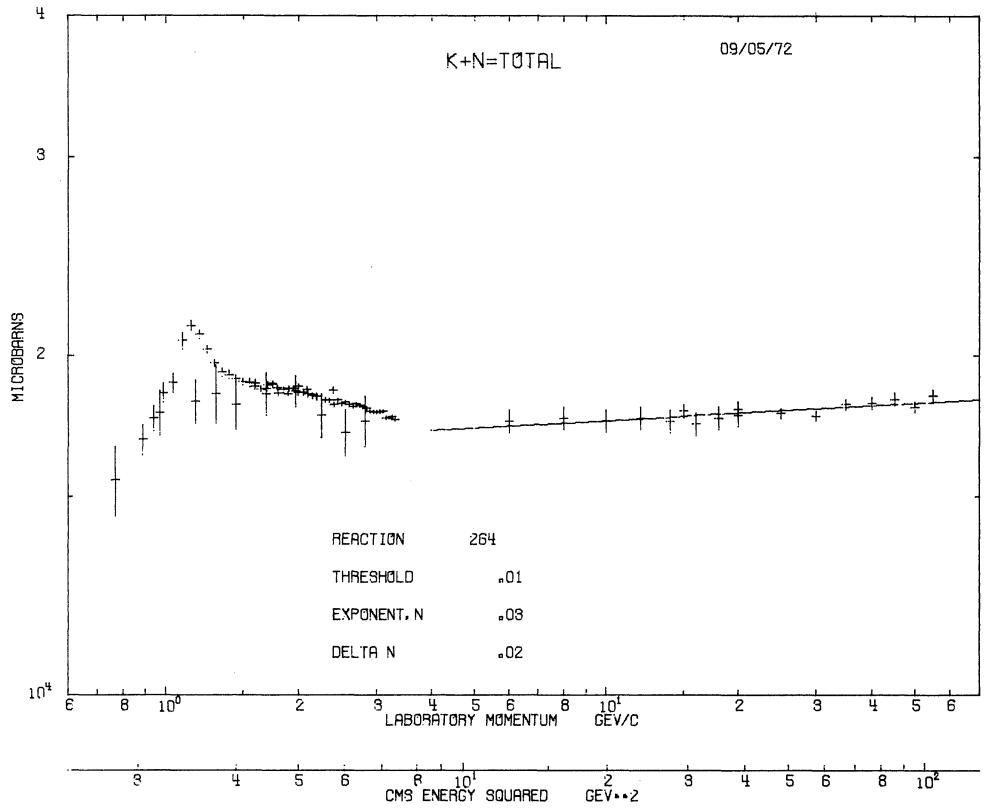

K+P=N*1236K=(P/N)KPI
09/05/72
MICROBARNS
REACTION 218
THRESHOLD .88
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

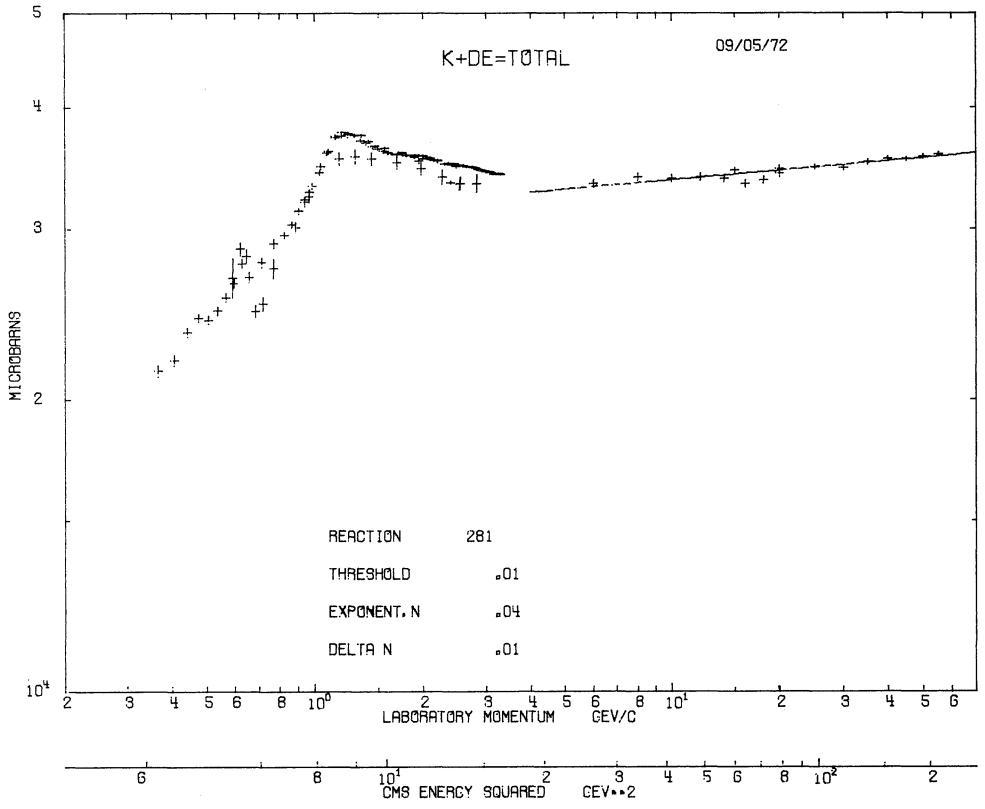

K+P=LK+K+
09/05/72
MICROBARNS
REACTION 225
THRESHOLD 1.69
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

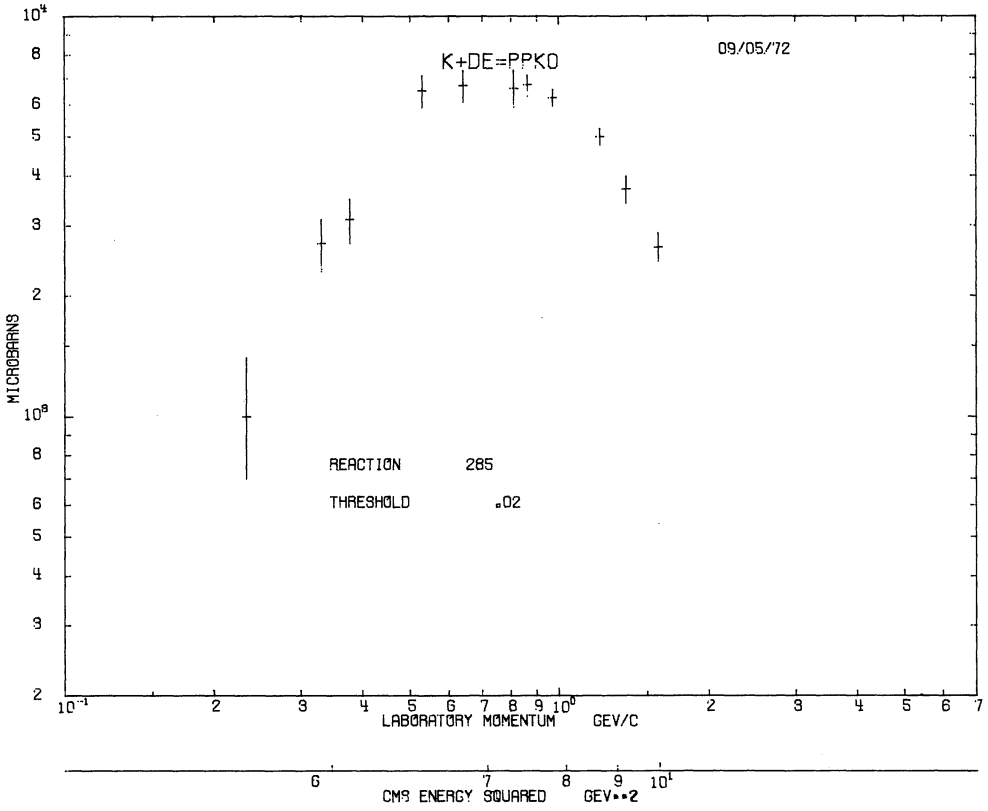

K+P=LK+K+PIO
09/05/72
MICROBARNS
REACTION 228
THRESHOLD 2.03
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2


K+P=LK+KOPI+
09/05/72
MICROBARNS
REACTION 230
THRESHOLD 2.03
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2


K+P=SOK+K+
09/05/72
MICROBARNS
REACTION 250
THRESHOLD 1.87
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2


K+N=TØTAL
09/05/72
MICROBARNS
REACTION 264
THRESHØLD .01
EXPØNENT. N .08
DELTA N .02
LABØRATØRY MØMENTUM GEV/C
CMS ENERGY SQUARED GEV**2


K+DE=TØTAL
09/05/72
MICROBARNS
REACTION 281
THRESHØLD .01
EXPØNENT. N .04
DELTA N .01
LABØRATØRY MØMENTUM GEV/C
CMS ENERGY SQUARED GEV**2


K+DE=PPKO
09/05/72
MICROBARNS
REACTION 285
THRESHOLD .02
LABORATORY MOMENTUM GEV/C
CMS ENERGY SQUARED GEV**2

LIST OF COMPILATIONS OF CROSS-SECTIONS

*CERN HERA 69-1
GIACOMELLI G; PINI P; STAGNI S;
A compilation of Pion-Nucleon Scattering Data.

CERN HERA 69-2
SADOULET B.
Data Compilation of anti-proton Reactions into Antihyperon-Hyperon

CERN HERA 69-3
GIACOMELLI G.
A Compilation of Total and Total Elastic Cross-sections.

CERN HERA 70-1
SPILLANTINI P; VALENTE V.
A collection of Pion Photoproduction Data.

CERN HERA 70-2
HANSEN J.D; MORRISON D.R.O; TOVEY N.
Compilation of Cross-sections
I - Proton Induced Reactions.

CERN HERA 70-3
FLAMINIO E; HANSEN J.D; MORRISON D.R.O; TOVEY N.
Compilation of Cross-sections
II - Antiproton Induced Reactions

CERN HERA 70-4
FLAMINIO E; HANSEN J.D; MORRISON D.R.O; TOVEY N.
Compilation of Cross-sections
III - K^+ Induced Reactions.

CERN HERA 70-5
FLAMINIO E; HANSEN J.D; MORRISON D.R.O; TOVEY N.
Compilation of Cross-sections
IV - π^+ Induced Reactions.

CERN HERA 70-6
FLAMINIO E; HANSEN J.D; MORRISON D.R.O; TOVEY N.
Compilation of Cross-sections
V - K^- Induced Reactions.

CERN HERA 70-7
FLAMINIO E; HANSEN J.D; MORRISON D.R.O; TOVEY N.
Compilation of Cross-sections
VI - π^- Induced Reactions.

V.S. BARASHENKOV and V.M. MALTSEV
Cross Sections for Elementary Particle Interactions, Fortsch. Physik 9, 549 (1961).

V.S. BARASHENKOV and J. PATERA, Cross Sections for Antinucleon Production, Fortsch. Physik 11, 469 (1963).

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H. YUKAWA, Ed., Experimental Data on Hadron Interactions in GeV Region, Supplement of the Progress of Theoretical Physics (Kyoto), Extra Number (1967).

P.K. WILLIAMS, D.M. LEVINE, J.A. KOSCHIK
References and Some Two-Body Data for High Energy Reactions, University of Michigan, 1967 (unpublished).

UCRL-20000 K^+N (September 1969)
A Compilation of K+N Reactions

UCRL-20000 YN (January 1970)
A Compilation of YN Reactions.

UCRL-20001 (January 1970)
Compilations of Elastic Scattering Data.

UCRL-20030 πN (February 1970)
πN Partial-wave Amplitudes.

UCRL-20000 NN (August 1970)
NN and ND Interactions (above 0,5 (GeV/c) - A Compilation.

LBL - 55 (March 1972)
$K^0_L N$ Interactions - A Compilation

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