

Addendum to Proposal - 195

Tables and Figure Captions

Table I The number of each particles observed by (a) 4" shower calorimeter and (b) 6" calorimeter respectively.

Those numbers are obtained by the simulation for the pbar-p collisions 10^6 . Symmetry implies that the two shower counters are located symmetrically inside the Roman pots, while asymmetry case one is in the Roman pot and the other near the beam pipe at the opposite direction of the one chamber.

Fig. 1 (a) The invariant mass distribution of the gamma rays observed by the 4" silicon shower counters in the Roman pots installed 15 m away from the vertex.

(b) The same invariant mass distribution but observed by 6" shower calorimeters located at 10m away from the vertex.

Fig. 2 (a) The angular distribution of the photons versus the photon energies E_γ for $\sqrt{s} = 900$ GeV , (b) for $\sqrt{s} = 200$ GeV, and (c) for $\sqrt{s}=540$ GeV. The angular range observed by the detectors (A: inside Roman pot and B: outside beam pipe but just on the beam pipe) is indicated by the box.

Fig. 3 (a) The photon distribution in the plane: Feynman variable x_F and the transverse momentum p_T for the collision energies (a) $\sqrt{s} = 900$ GeV , (b) $\sqrt{s} = 200$ GeV and (c) for $\sqrt{s} = 540$ GeV respectively. (The horizontal axis of Fig. 3(c) is not linear but logarithmic.)

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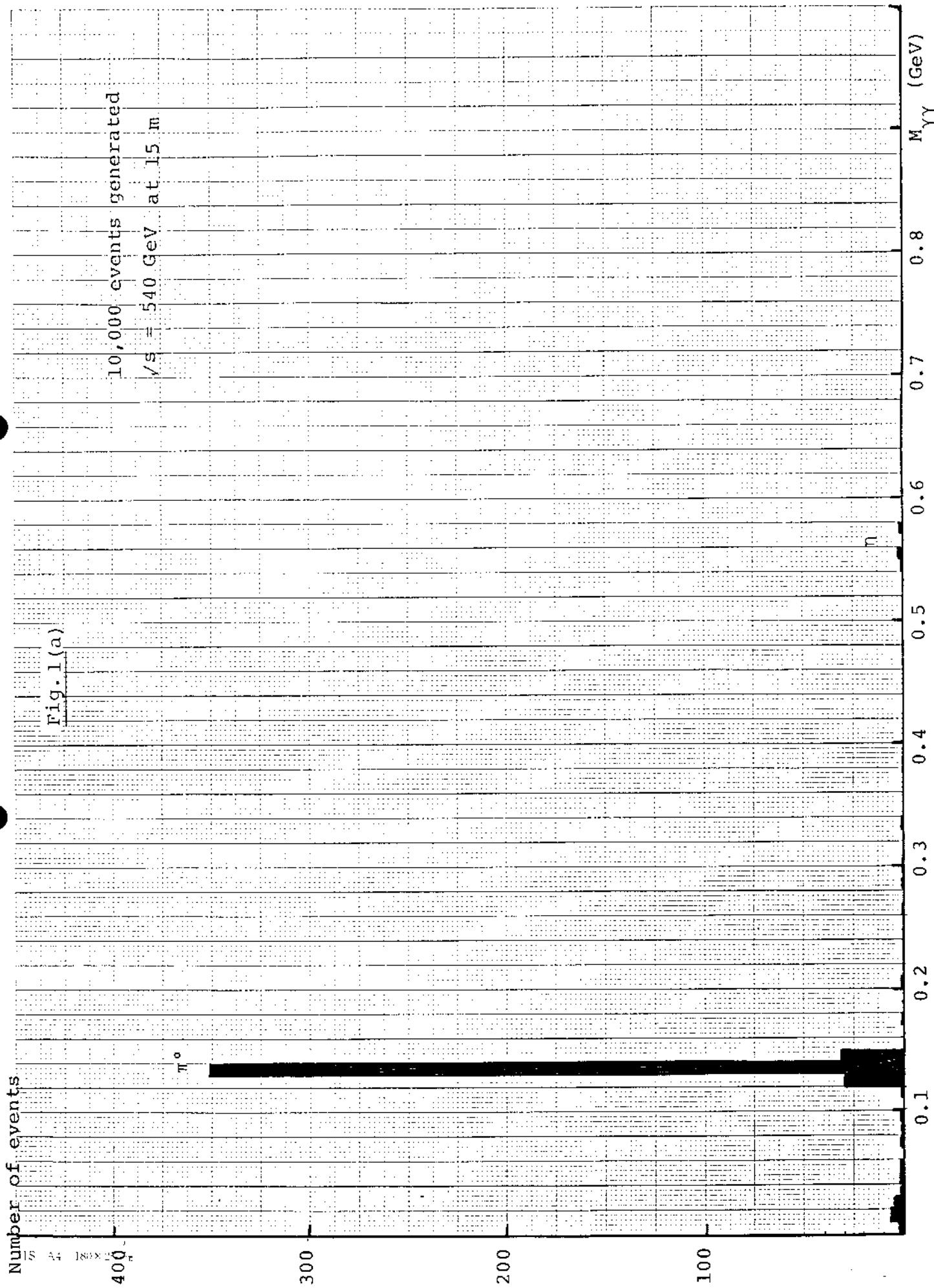
Table I

(a) 4" shower counter

\sqrt{s}	γ	π^o	K^o_s	ω	η	ϕ	chamber configuration
900	3.5×10^5	1.2×10^5	170	60	1830	<2	
200	7.1×10^4	2.1×10^3	<10	<10	<10	<10	
630	2.7×10^5	6.1×10^4	40	<10	800	<10	
							symmetry
900	2.8×10^5	4.1×10^4	>10	<10	1030		
200	6.3×10^4	1.4×10^3	<10	<10	<10	<10	
630	2.2×10^4	2.1×10^4	<10	<10	<10	<10	
							asymmetry

(b) 6" shower counter

\sqrt{s}	γ	π^o	K^o_s	ω	η	ϕ	distance (m)	configuration
3.7 $\times 10^5$	1.4×10^5	180	40	2300	<2		22	
630	4.9×10^5	3.4×10^5	2200	1800	1.3×10^4	30	10	
							symmetry	
6.6 $\times 10^5$	4.3×10^5	7700	1500	2.2×10^4	50	6.4		
3.2 $\times 10^5$	5.7×10^4	10	10	1400			22	
630	4.4×10^5	1.4×10^5	170	100	5300		10	
							asymmetry	
5.7 $\times 10^5$	1.9×10^5	410	220	1.4×10^4	6.4			



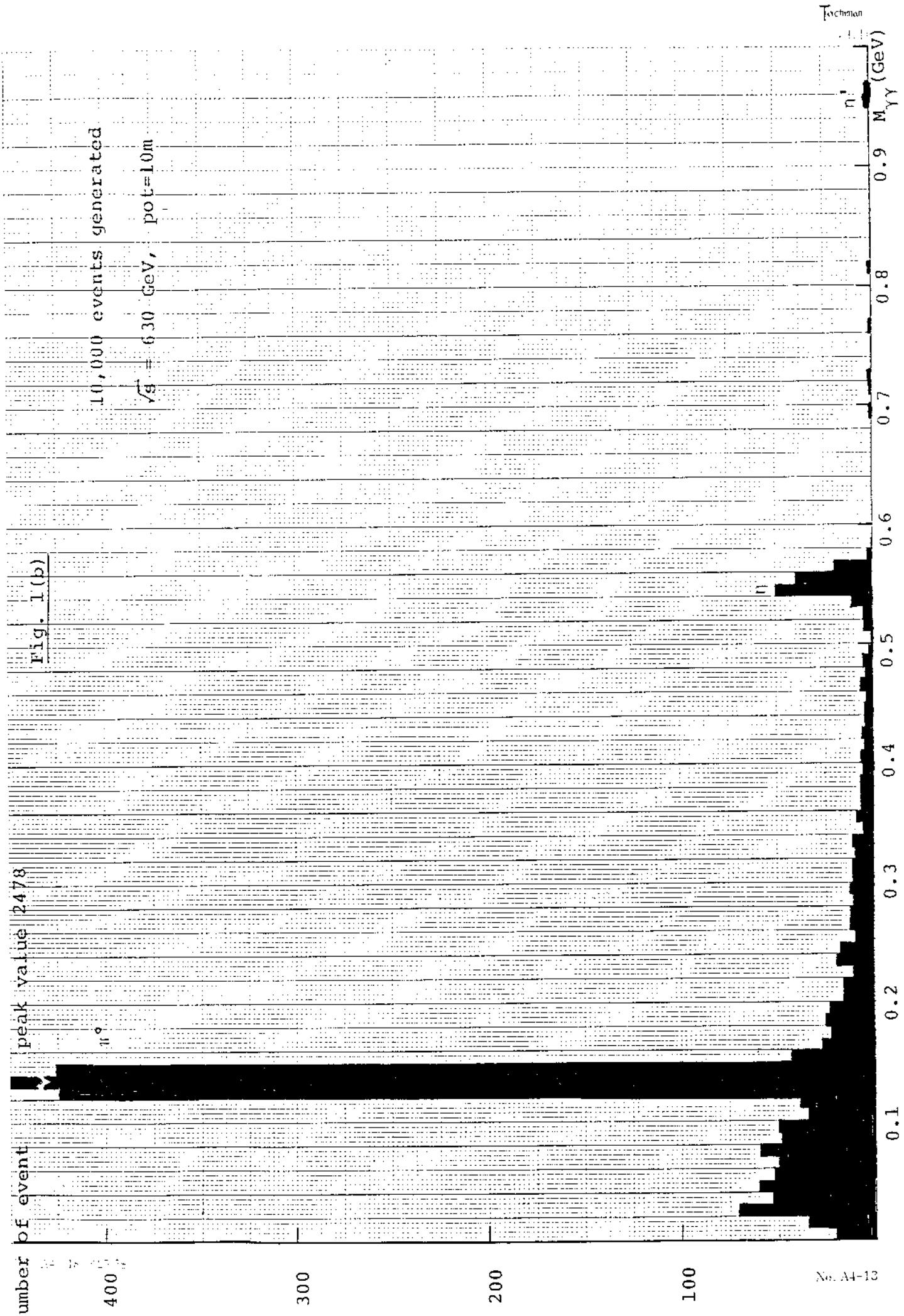


Fig. 2(a)
 $\sqrt{s} = 900$ GeV

E0= 430, SAMPLED EVENTS=10000, ETH=0.1000E-02, CUT=0, 3000E-03 EXP(-PT*2)DPT**2=F, ERR= T, ERRT= 0, 1MR, TETA MAX=50, 90MR, EG MIN= 1, TWOC=T, ZDEF= 1, E <PT>=340, CPTI=F, <PTH> = 500, <PT P10> FOR X>, J = 360, 4 (.), 45995 S=0=739

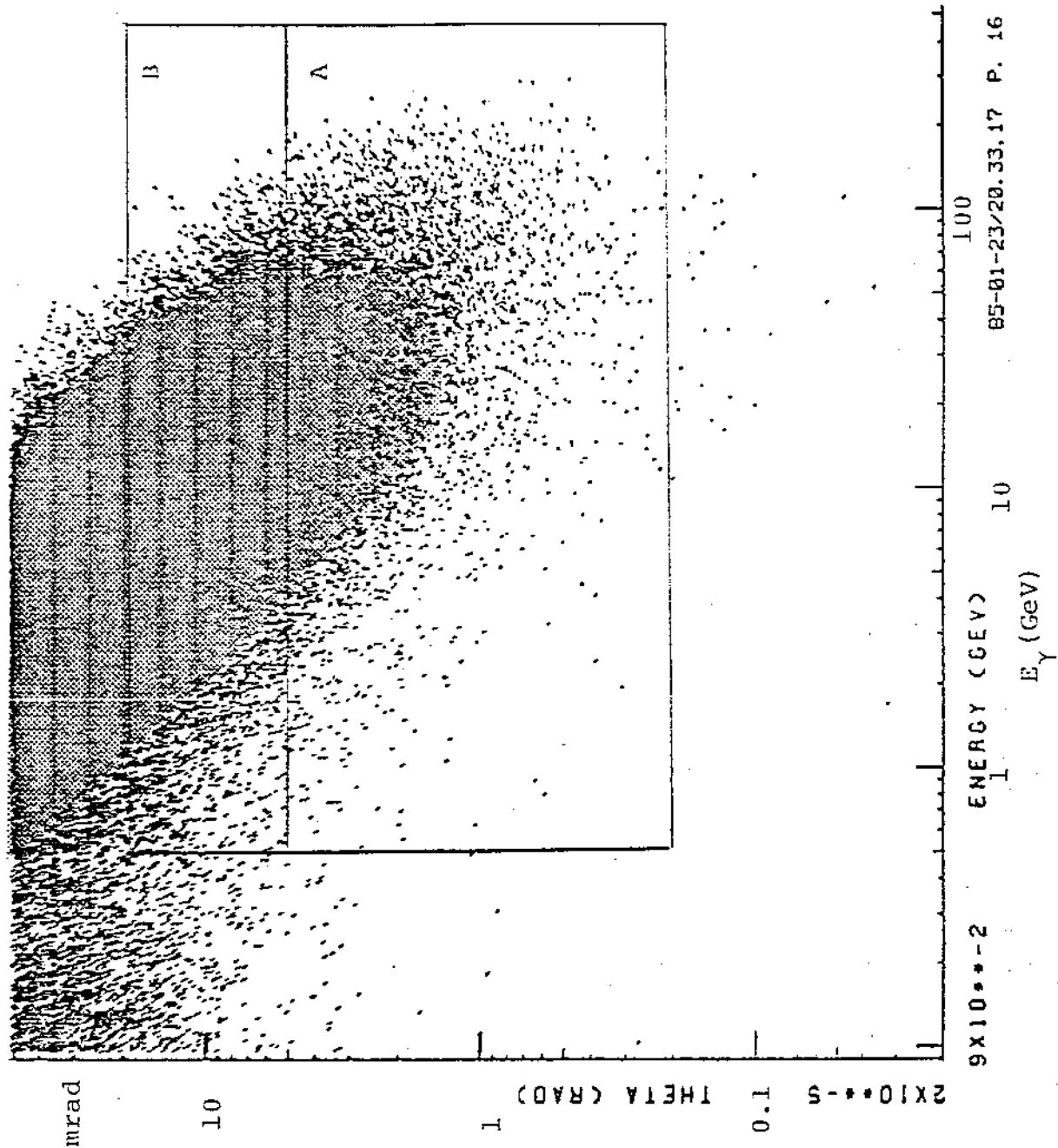


Fig. 2 (b)

$\sqrt{s} = 200$ GeV
E# 21. SAMPLED EVENTS=150000 ETH=0, 100E-02 CUT=0, 300E-03 EXP(-PT**2)DPT**2=F ERR=
T ERR=F 0, 1MF TETA MAX=50, 00MR, EG MIN= 1. TWOCT ZDEF= 1. E <PT>=340, CPT1=F <PT1N>
= 500, <PT P10> FOR X>, 3 = 379, 7 (,)=23731

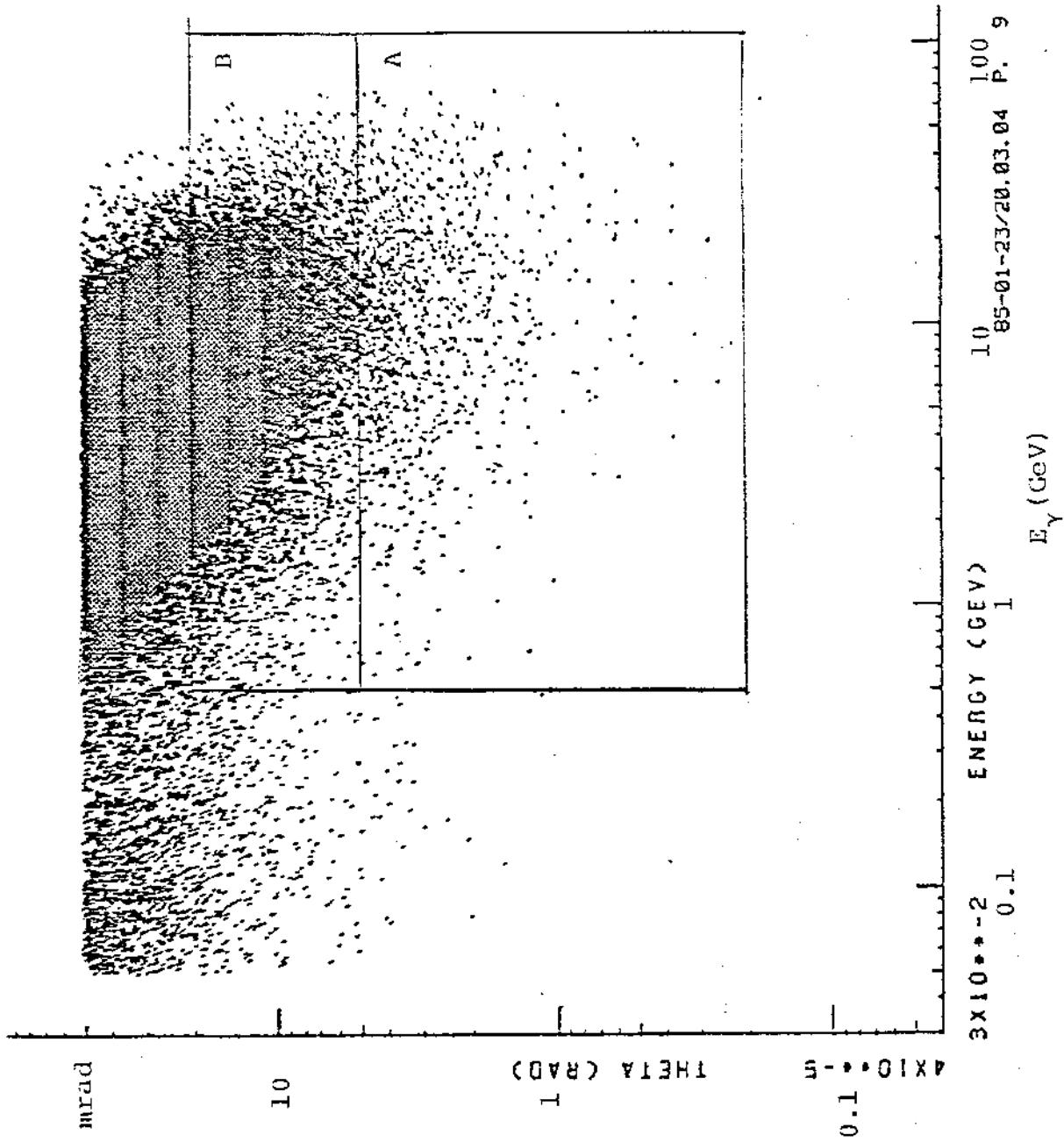
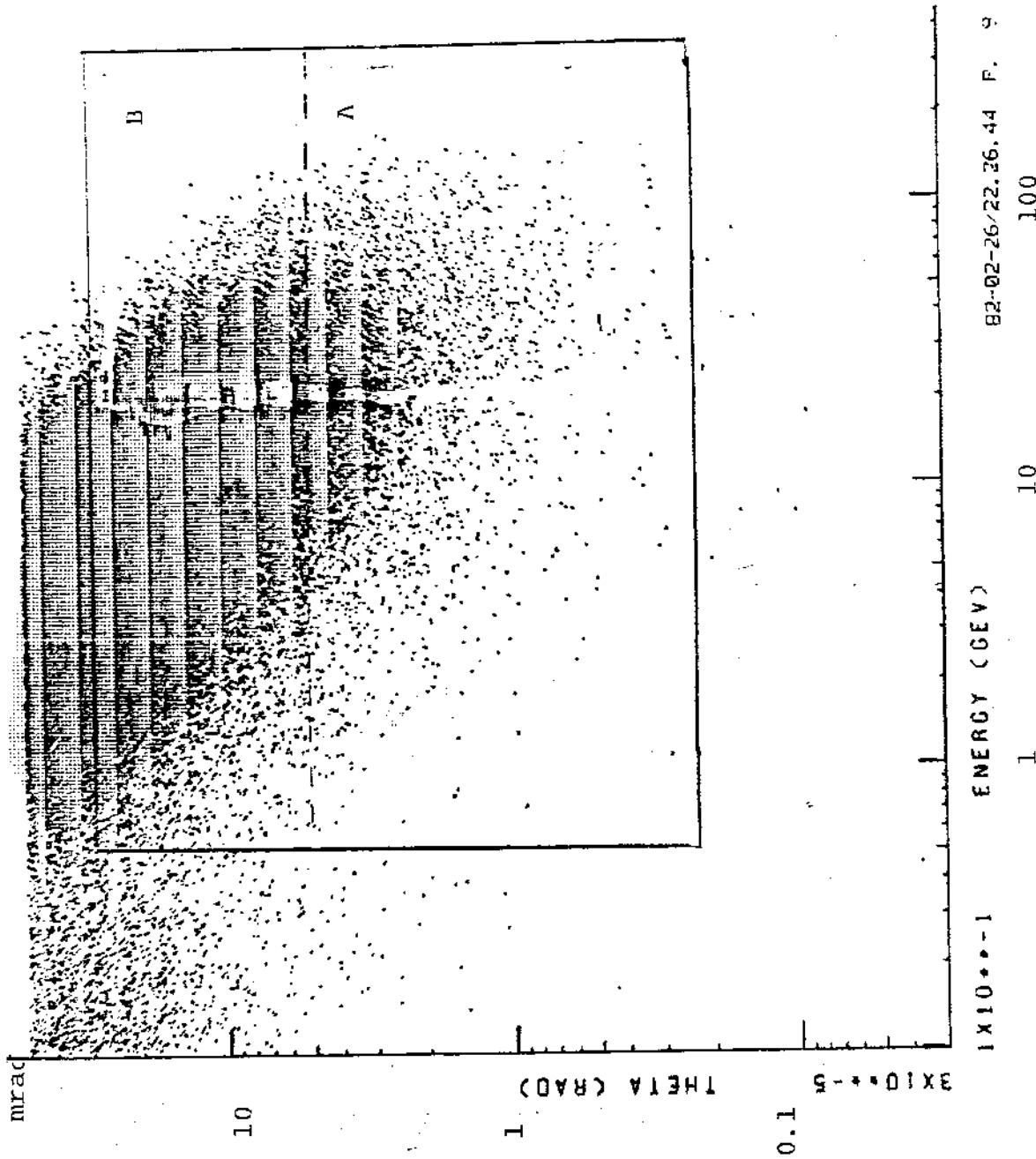


Fig. 2(c)

$\sqrt{s} = 540$ GeV

ED= 150, SAMPLED EVENTS=100000 ETH=0, 1.00E-02 CUT=0, 3.00E-03 EXP(-PT**2)DPT**2=F ERR=
T ERR= 0, LMR TETA MAX=50, 0.01IR, EG MIN= 1, TWOCT ZDEF= 1, 0 <PT>=340, CPT1=F <PTH>
= 500, <PT P10> FOR X>, 3 = 381.4 C.)=34052 S-D=639



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100

10

ENERGY (GeV)

1

Fig. 3 (a)

$\sqrt{s} = 900$ GeV

ED= 430, SAMPLED EVENTS= 50002 ETH=0, 100E-02 CUT=0, 300E-03 EXP(-PT**2)DPT**2*F ERR= TERR= 0, 1MK TETR MAX=50, 00MR, EG MIN= 1, TWOCT ZDEF= 1, 0 <PT>=340, CPTI=F <PTIN> = 500, <P1 P10> FOR X, J = 376, E (.)=23506 S-U=1200

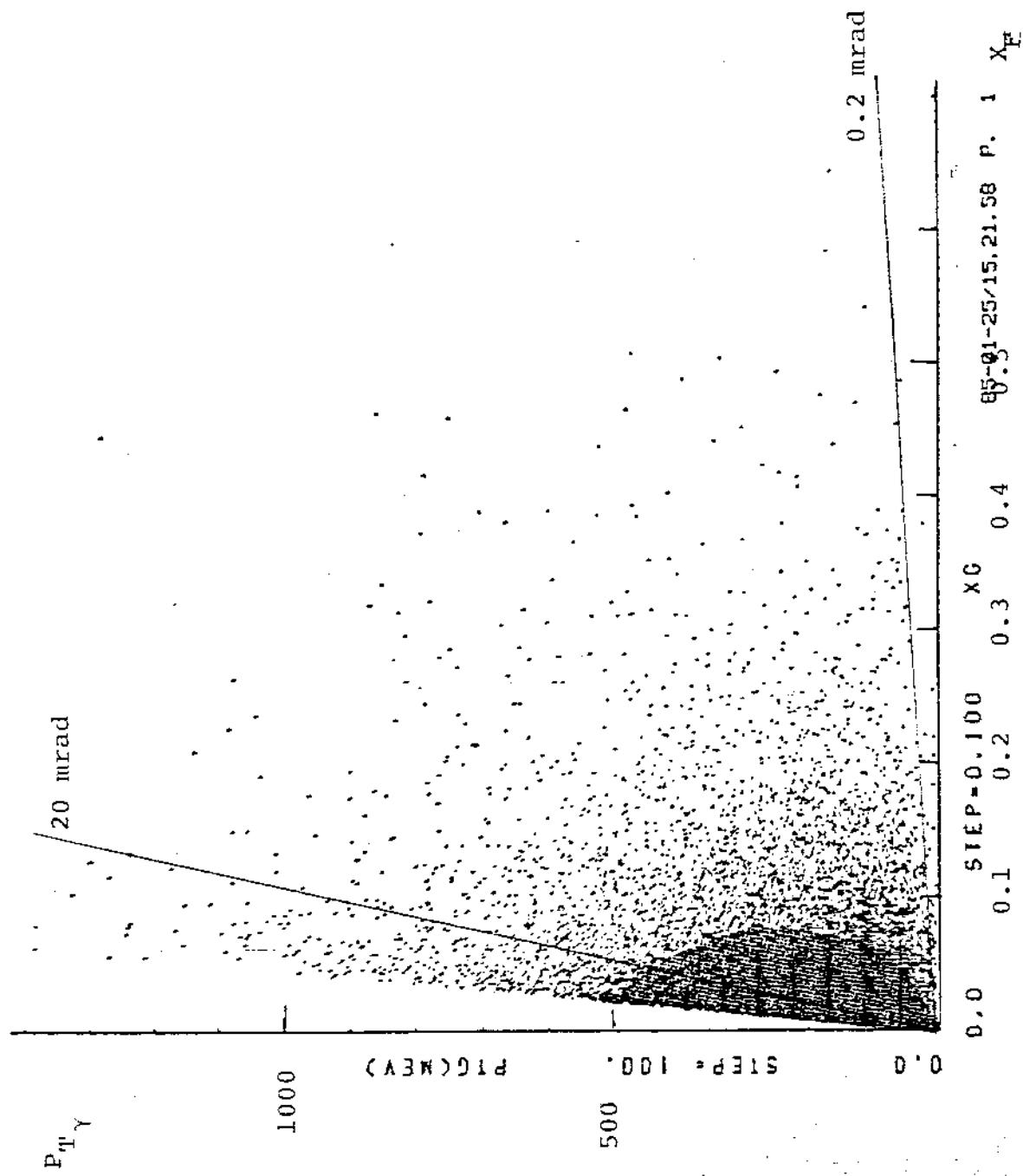


Fig. 3 (b)

$\sqrt{s} = 200$ GeV

EG= 21, SAMPLED EVENTS=100002 ETH=0, 1000E-02 CUT=0, 3000E-03 EXP(-PT*2)UPT*2*F ERR= TERRT= 0, 1MR TETA MAX=50, 00MR, EG MIN= 1, TWOCL=1 ZDEF= 1, E <PT>=340, CP11=F <PTH> = 500, <PT PI0> FOR X>, 3 = 371.2 C,)=1604E S-O=1720

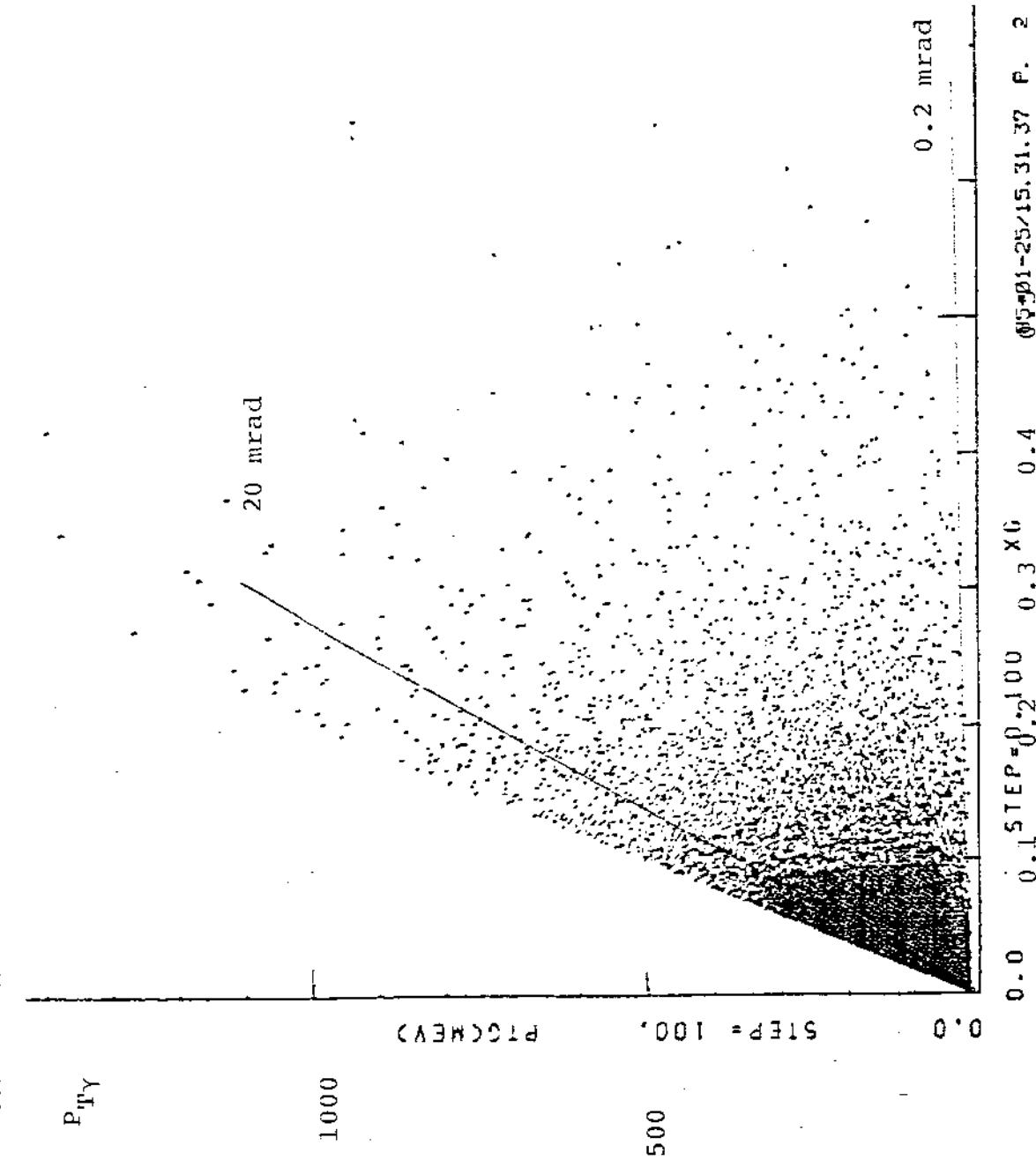


Fig. 3(c)

$\sqrt{s} = 540 \text{ GeV}$
E0= 150, SAMPLED EVENTS=10000 ETH=0, 1.00E-02 CUT=0, 3.00E-03 EXP(-PT*+2)DPT*+2=ERR#
T ERR# 0, INR TETA MAX=50, 0.0mrad, E6 H(H= 1, TWOCE12E# 1.6 <PT>-500, CPT1=F <PT>B
= 500, <PT>B FOR X>, 3 = 381.4 (.)=34052 S-0=24519

