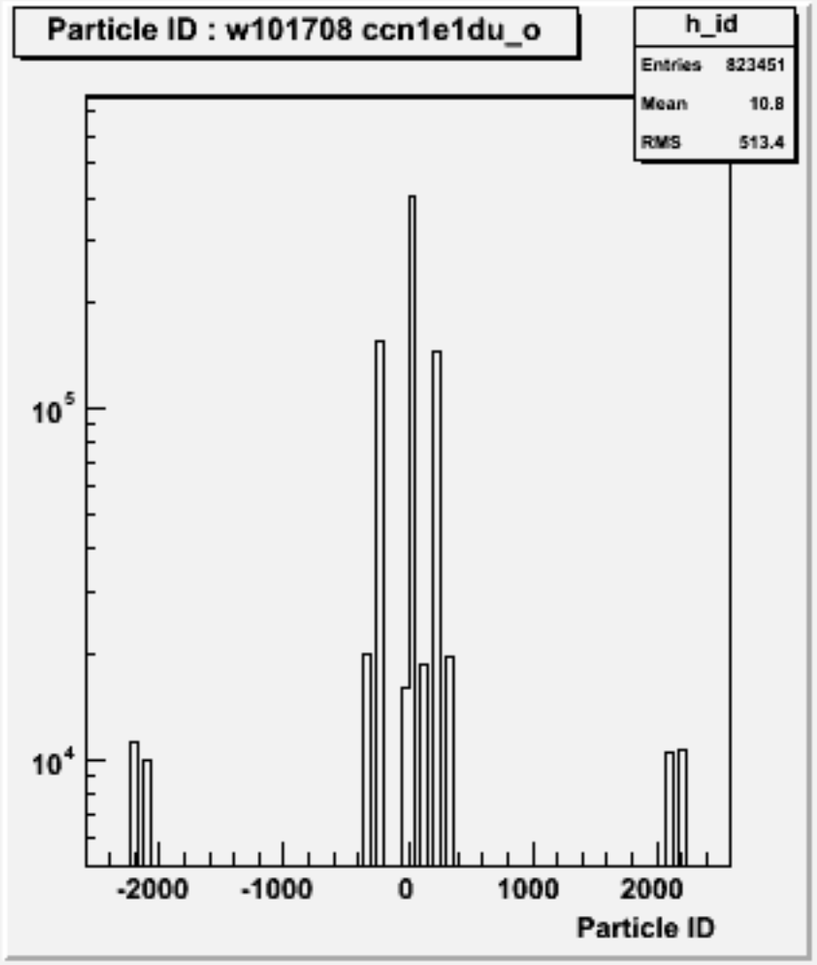
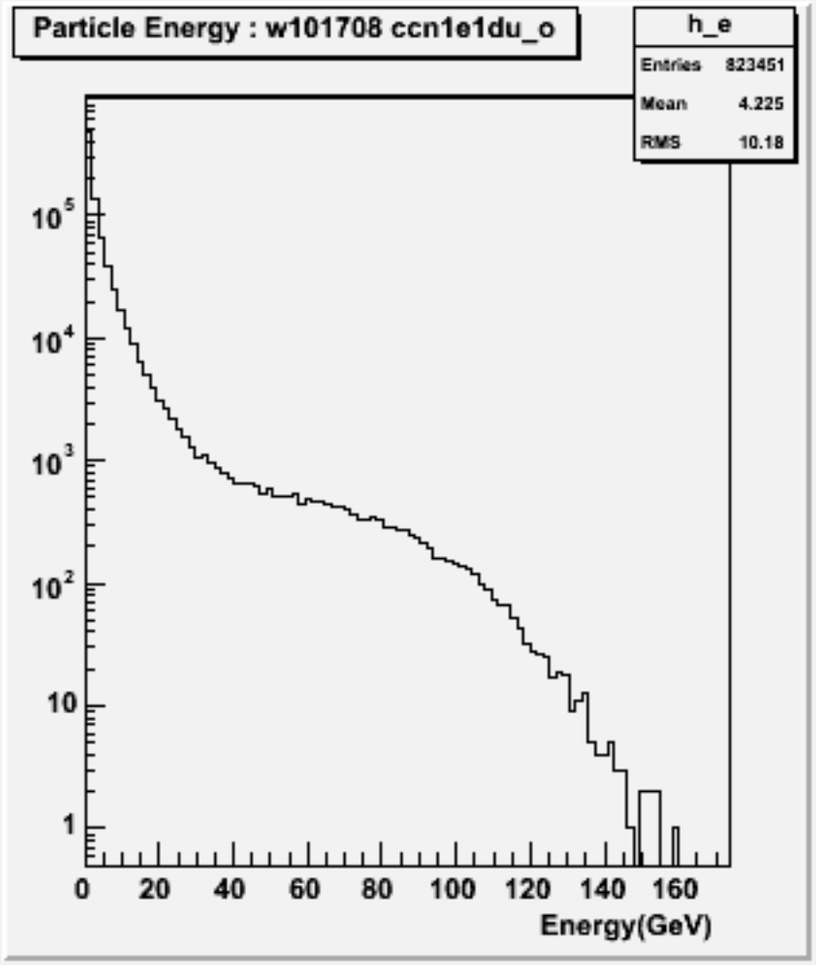
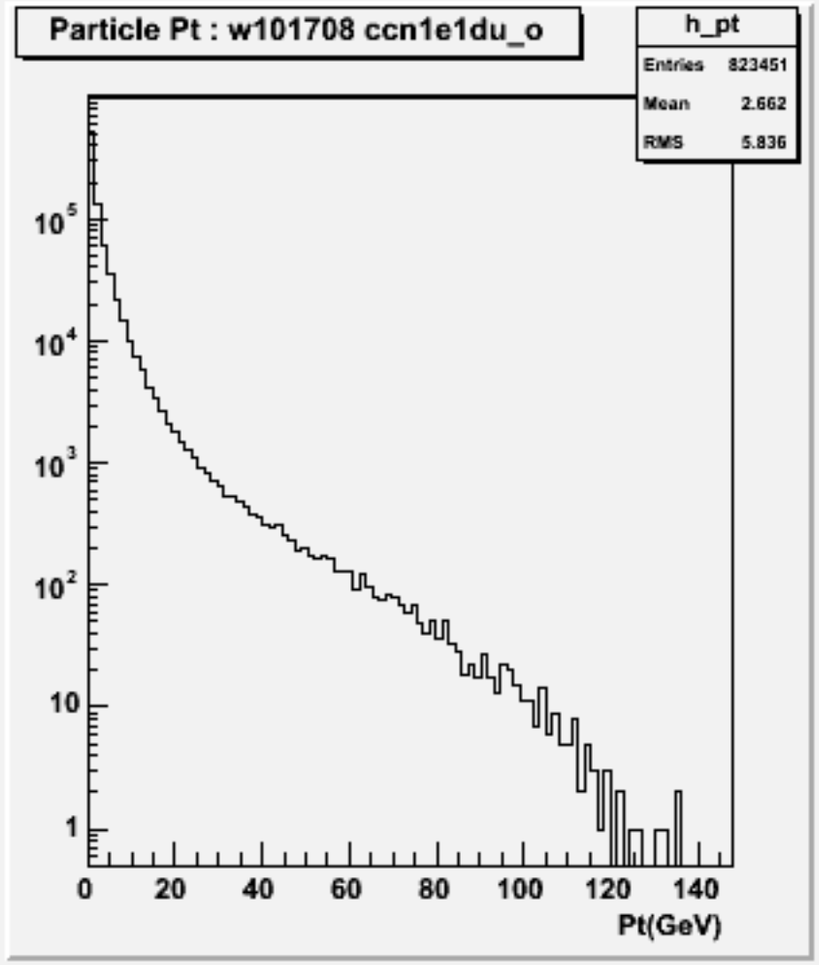
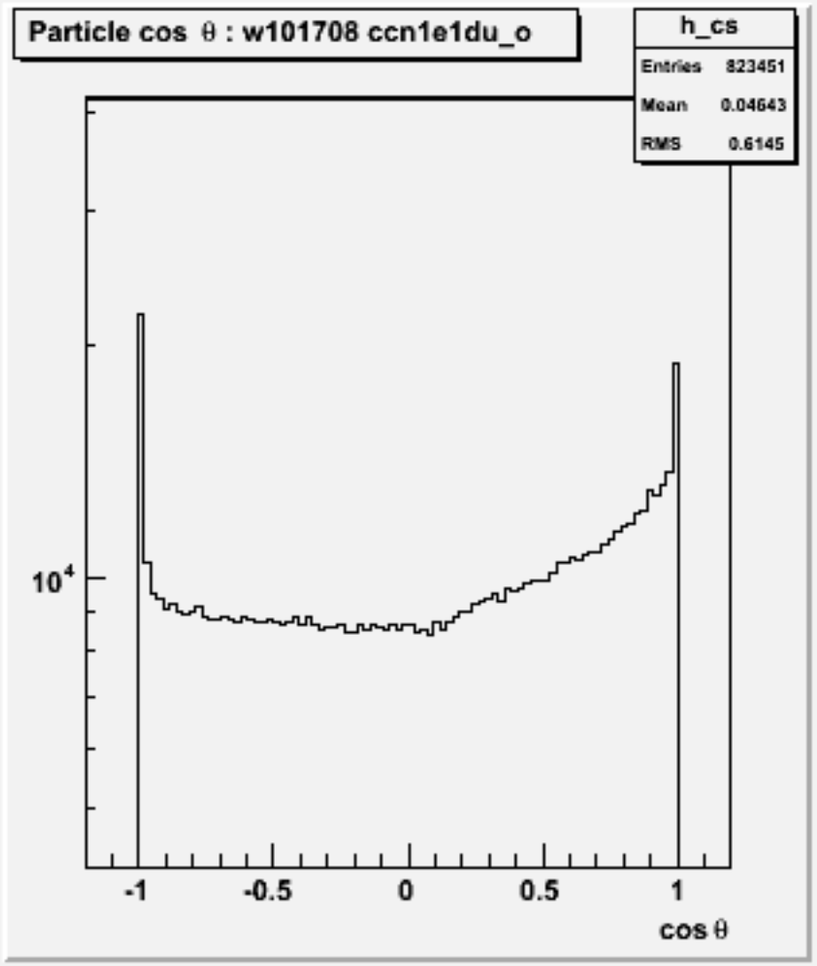
Generator file information: w101708 ccn1e1du_o

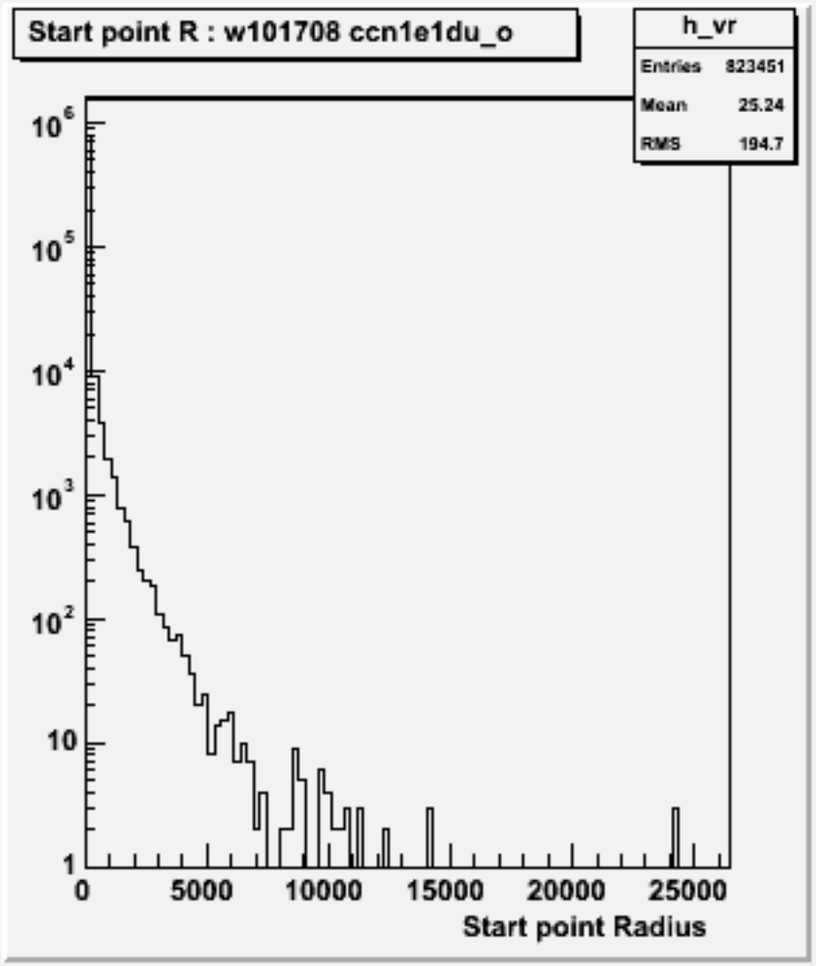
process_id=w101708
job_date_time=100628-144522
process_name=ccn1e1du_o
CM_energy_in_GeV=350
program_name_version=whizard-1.40
beam_particle1=e1
beam_particle2=E1
polarization1=-1.0
polarization2=+1.0
luminosity=1000
cross_section_in_fb=5.87720997488477
lumi_file=/tmp/lumi_linker_directory/lumi_linker_008
file_type=stdhep
total_number_of_events=10000
number_of_files=1
file_names=w101708_01.stdhep
number_of_events_in_files=10000
fileurl=lfn:/grid/ilc/users/miyamoto/CDS/generated/0350
logurl=http://www-jlc.in.kek.jp/~miyamoto/CDS/0350/run_output/w101708/run_01
comment=

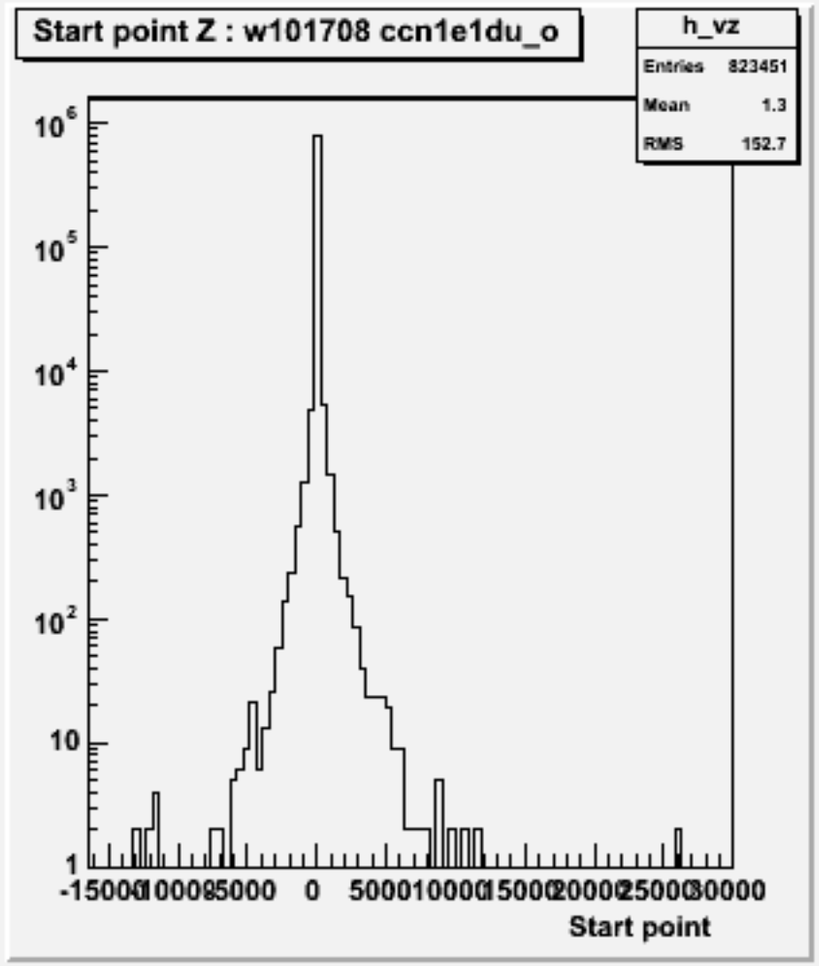

Particle ID : w101708 ccn1e1du_o
h_id
Entries 823451
Mean 10.8
RMS 513.4
10^5
10^4
-2000
-1000
0
1000
2000
Particle ID

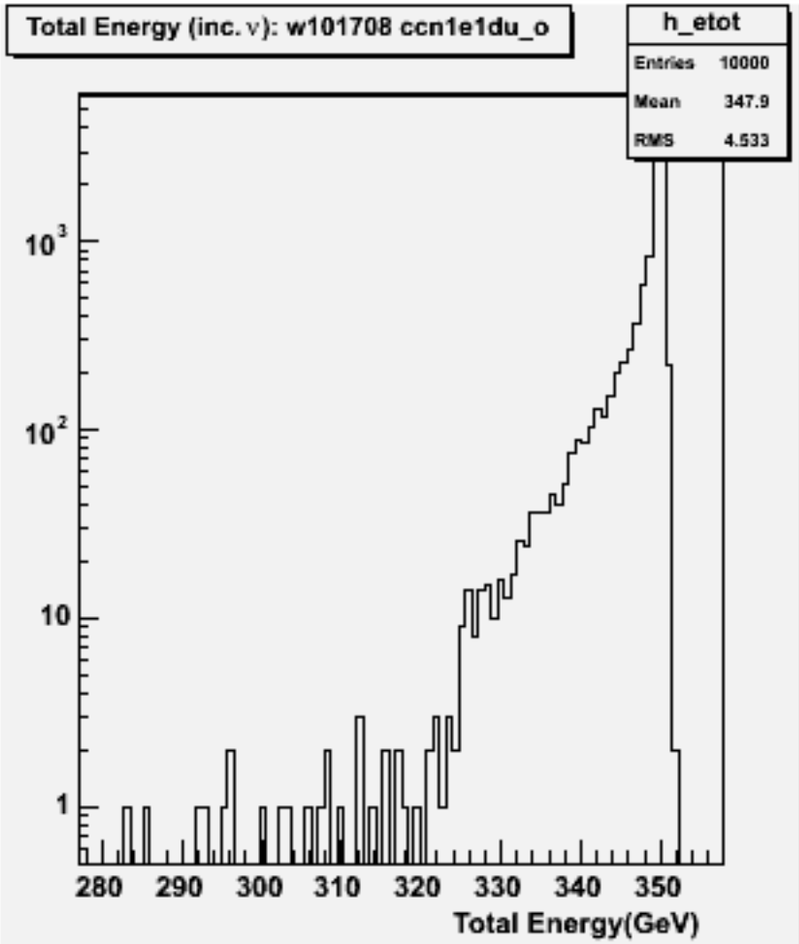

Particle Energy : w101708 ccn1e1du_o
h_e
Entries 823451
Mean 4.225
RMS 10.18
10^5
10^4
10^3
10^2
10
1
0
20
40
60
80
100
120
140
160
Energy(GeV)

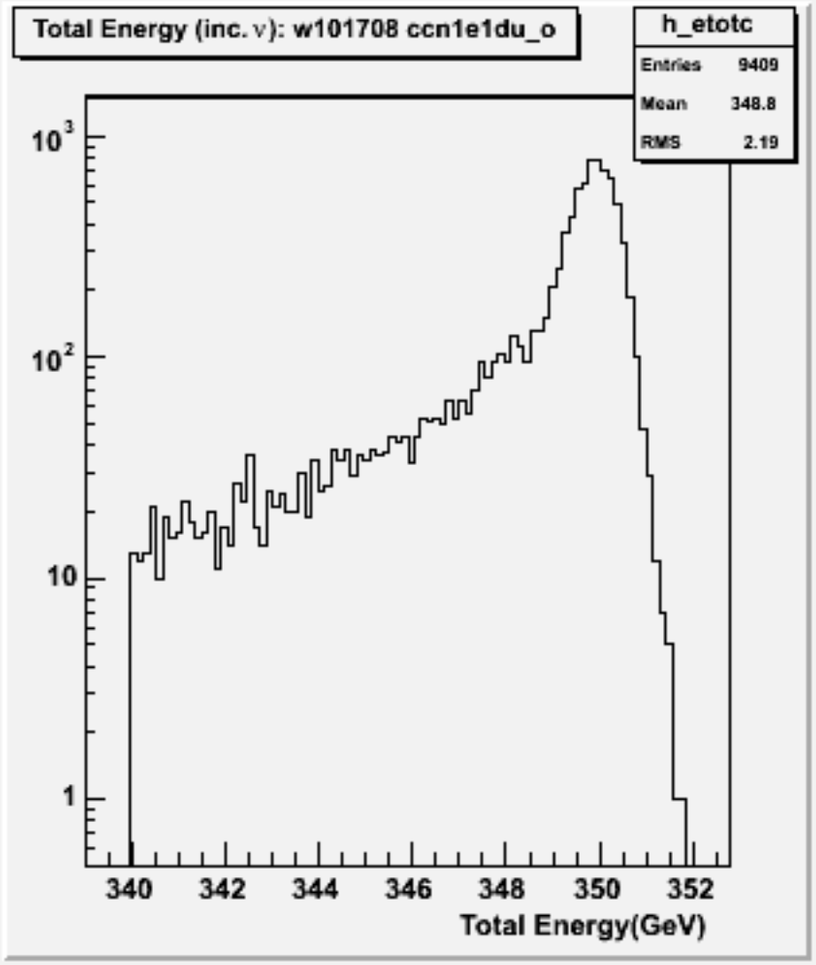

Particle Pt : w101708 ccn1e1du_o
h_pt
Entries 823451
Mean 2.662
RMS 5.836
10^5
10^4
10^3
10^2
10
1
0
20
40
60
80
100
120
140
Pt(GeV)

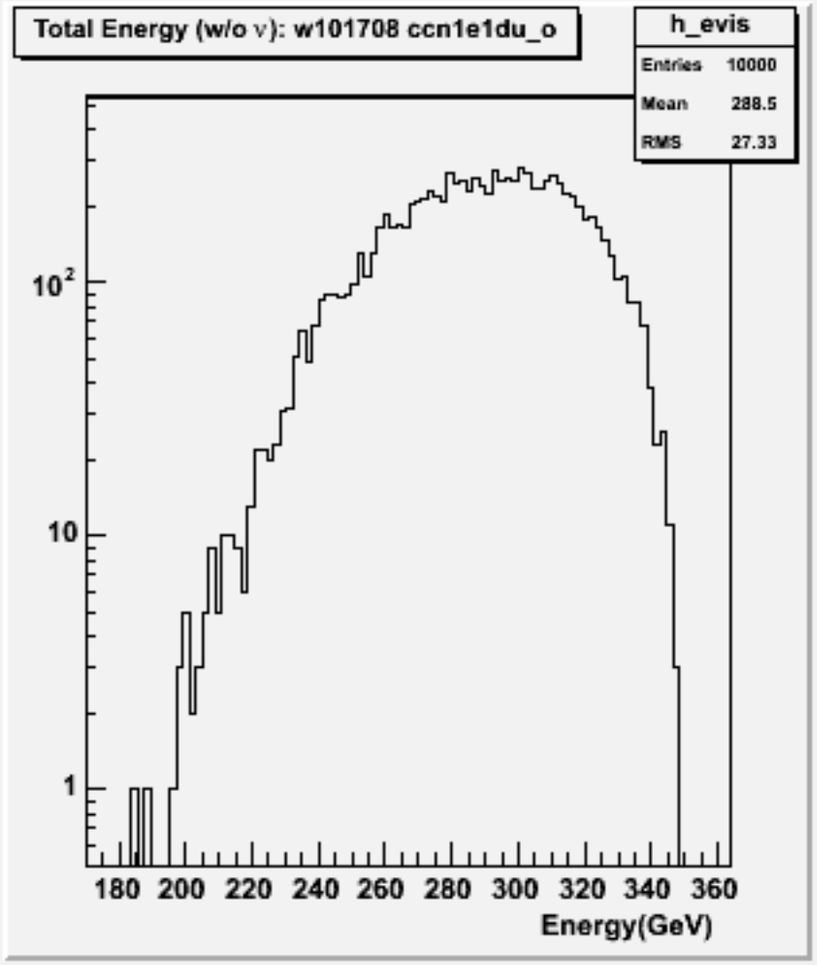

Particle cos θ : w101708 ccn1e1du_o
h_cs
Entries 823451
Mean 0.04643
RMS 0.6145
10^4
-1
-0.5
0
0.5
1
cos θ

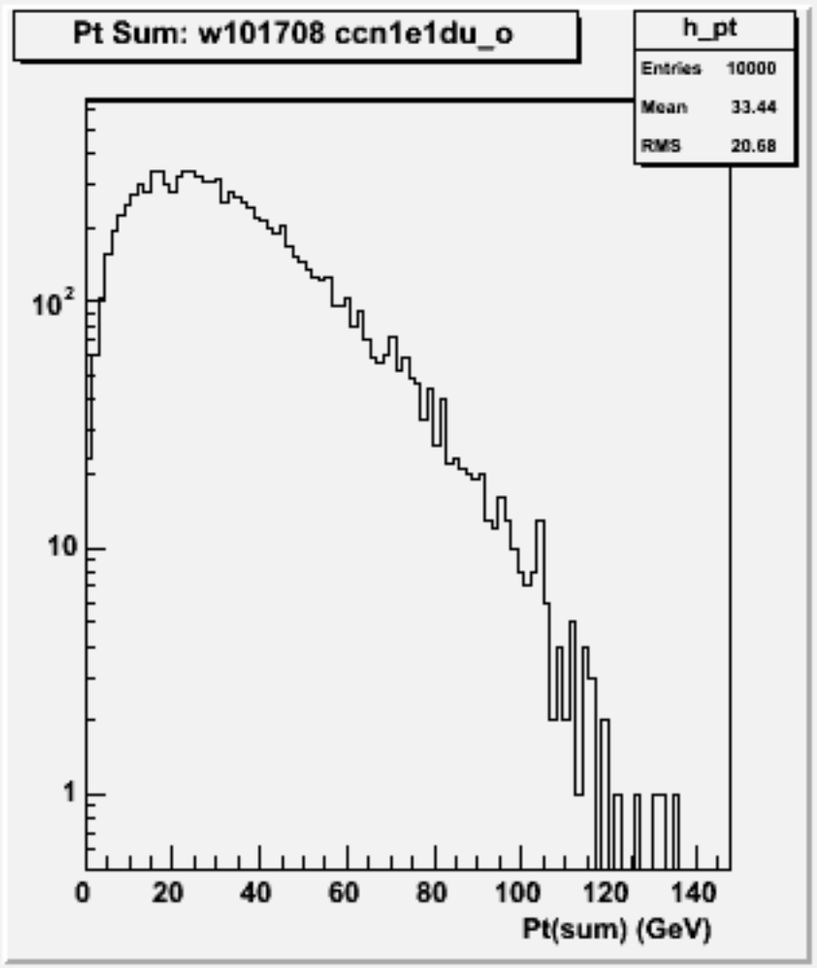

Start point R : w101708 ccn1e1du_o
h_vr
Entries 823451
Mean 25.24
RMS 194.7
10^6
10^5
10^4
10^3
10^2
10
1
0
5000
10000
15000
20000
25000
Start point Radius

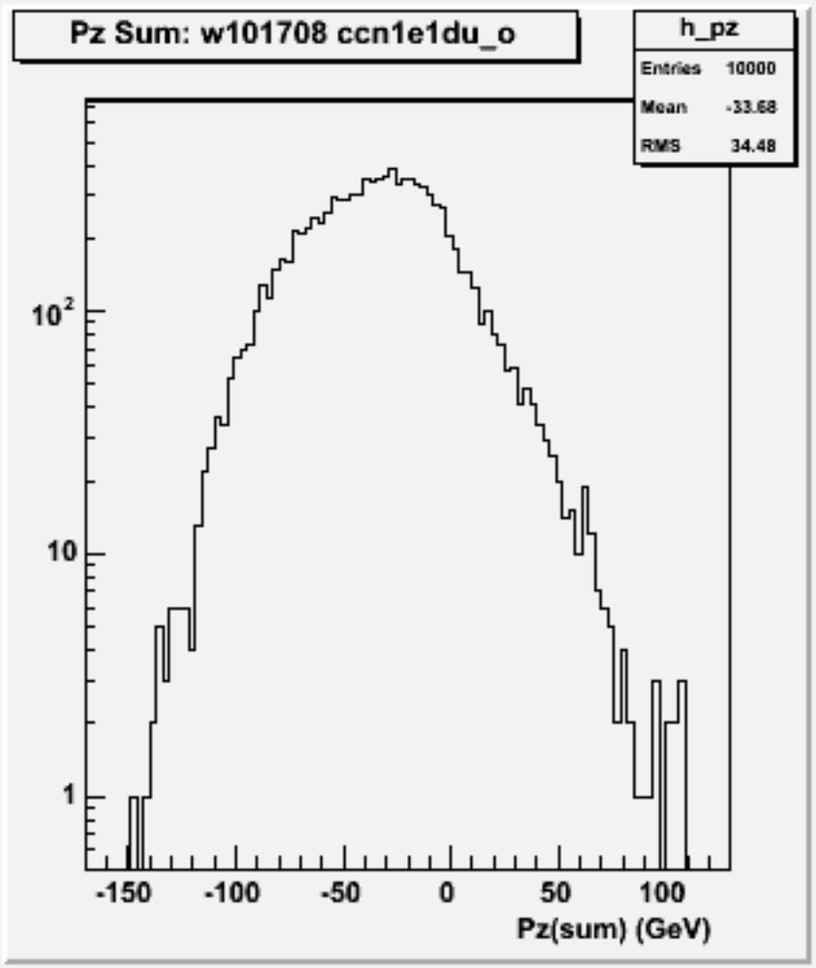

Start point Z : w101708 ccn1e1du_o
h_vz
Entries 823451
Mean 1.3
RMS 152.7
10^6
10^5
10^4
10^3
10^2
10
1
-15000
-10000
-5000
0
5000
10000
15000
20000
25000
30000
Start point

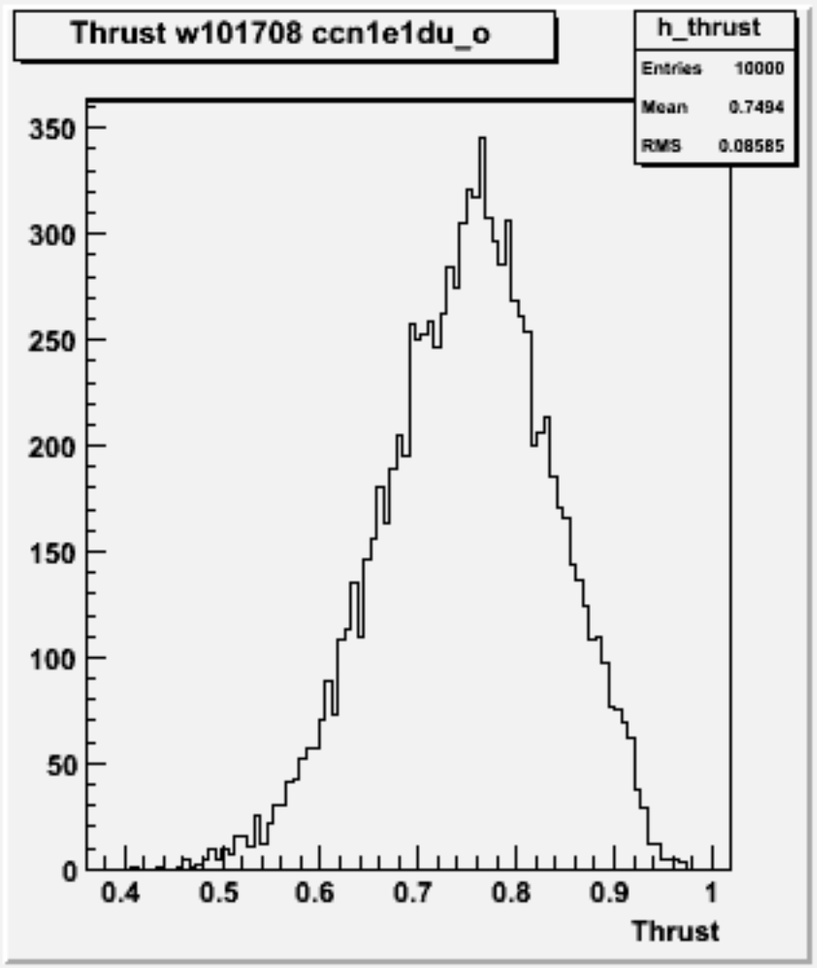

Total Energy (inc. ν): w101708 ccn1e1du_o
h_etot
Entries 10000
Mean 347.9
RMS 4.533
10^3
10^2
10
1
280 290 300 310 320 330 340 350
Total Energy(GeV)

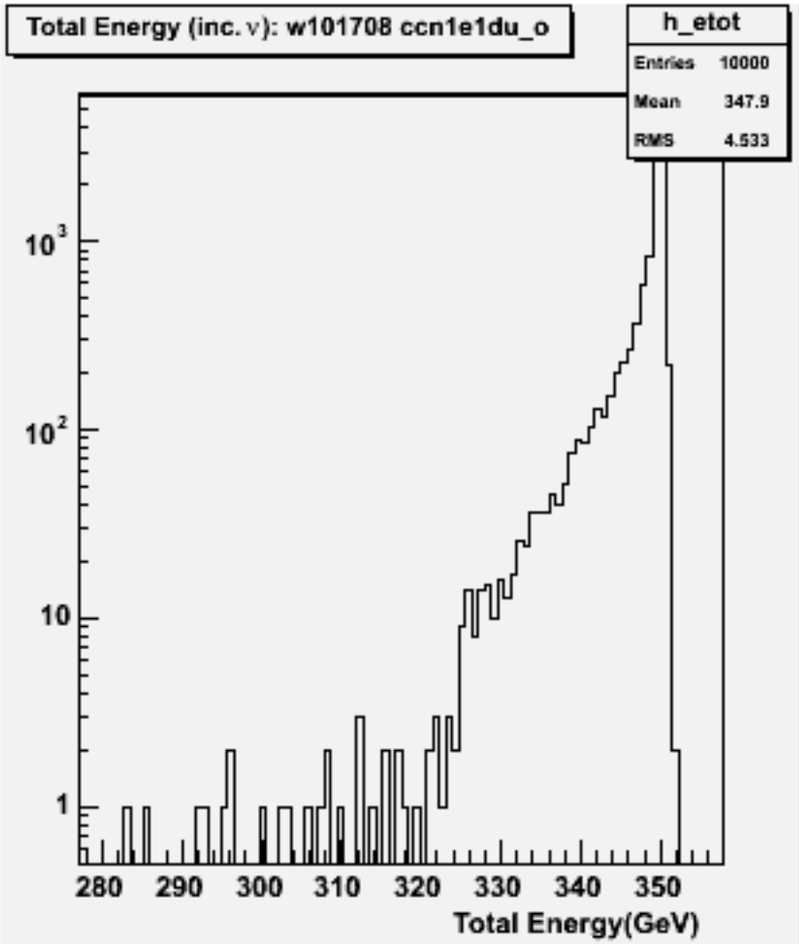

Total Energy (inc. ν): w101708 ccn1e1du_o
h_etotc
Entries 9409
Mean 348.8
RMS 2.19
10^3
10^2
10
1
340 342 344 346 348 350 352
Total Energy(GeV)

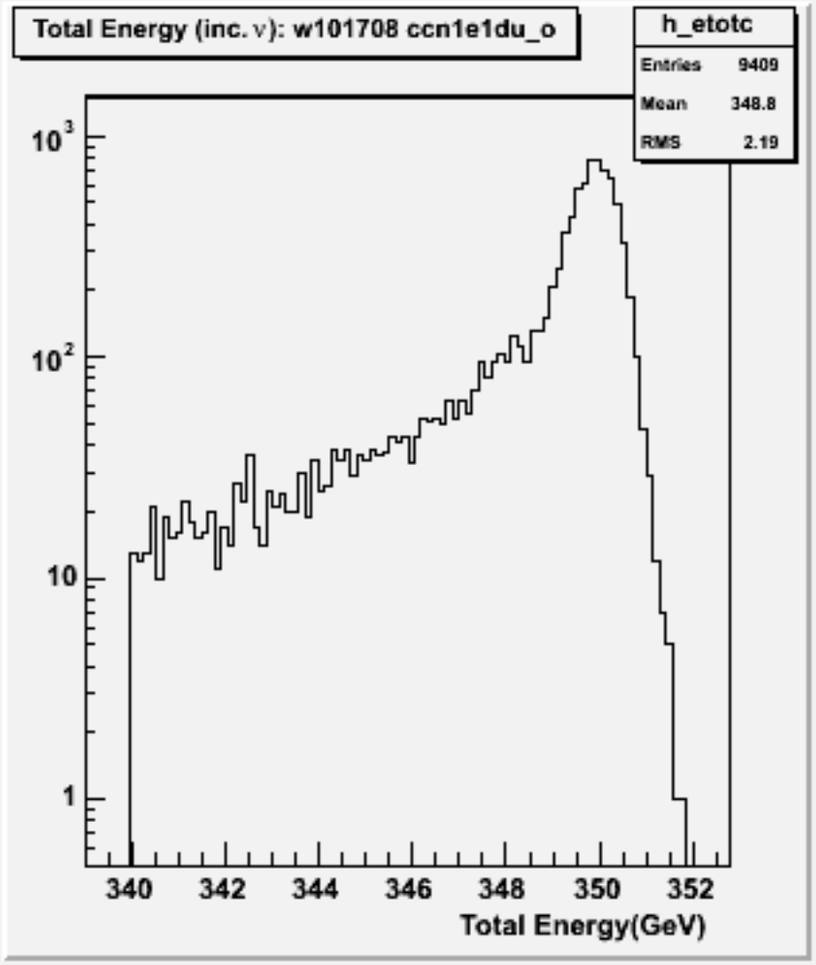

Total Energy (w/o ν): w101708 ccn1e1du_o
h_evis
Entries 10000
Mean 288.5
RMS 27.33
10^2
10
1
180 200 220 240 260 280 300 320 340 360
Energy(GeV)

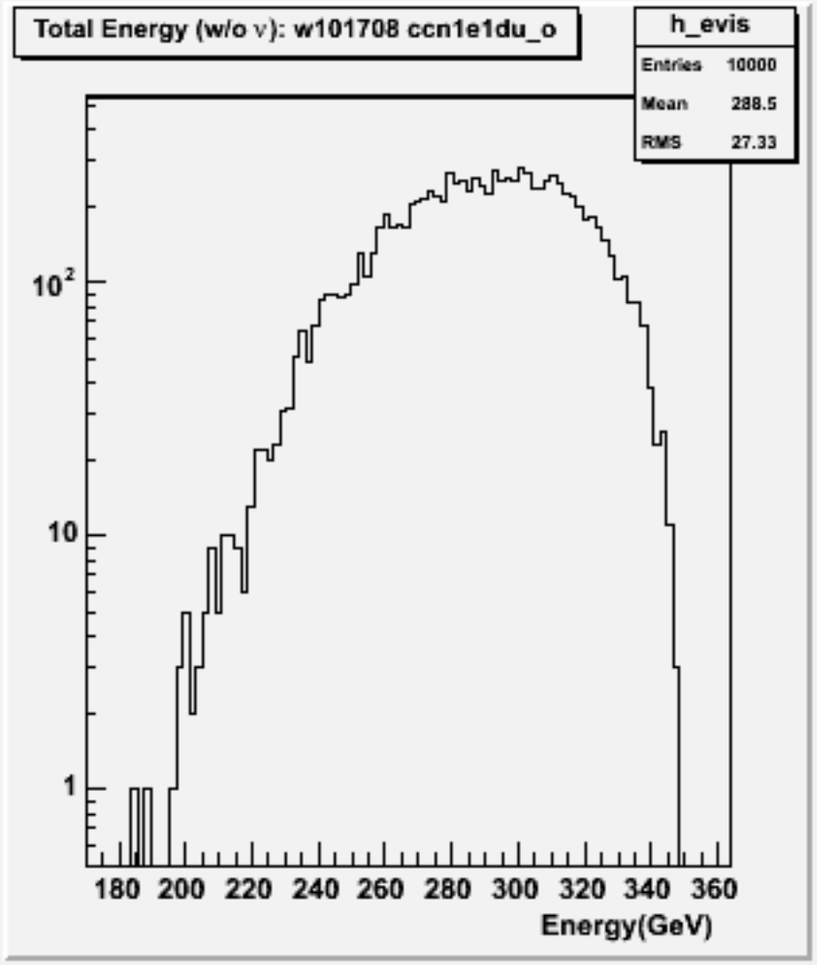

Pt Sum: w101708 ccn1e1du_o
h_pt
Entries 10000
Mean 33.44
RMS 20.68
10^2
10
1
0 20 40 60 80 100 120 140
Pt(sum) (GeV)

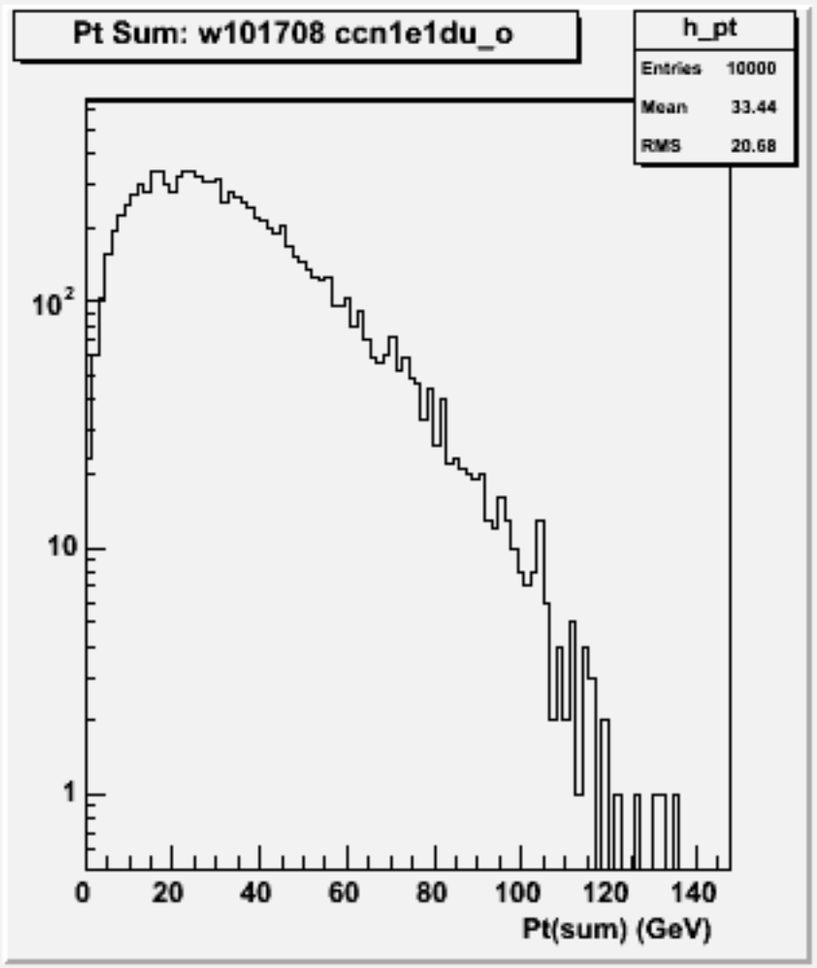

Pz Sum: w101708 ccn1e1du_o
h_pz
Entries 10000
Mean -33.68
RMS 34.48
10^2
10
1
-150 -100 -50 0 50 100
Pz(sum) (GeV)

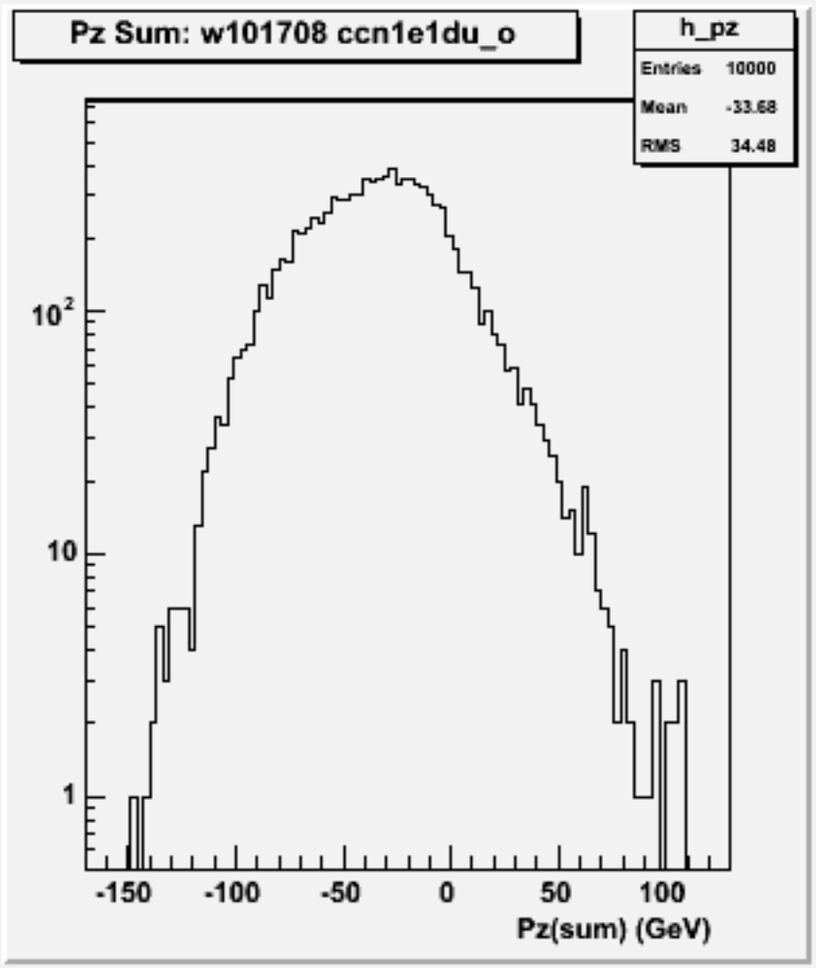

Thrust w101708 ccn1e1du_o
h_thrust
Entries 10000
Mean 0.7494
RMS 0.08585
350
300
250
200
150
100
50
0
0.4 0.5 0.6 0.7 0.8 0.9 1
Thrust

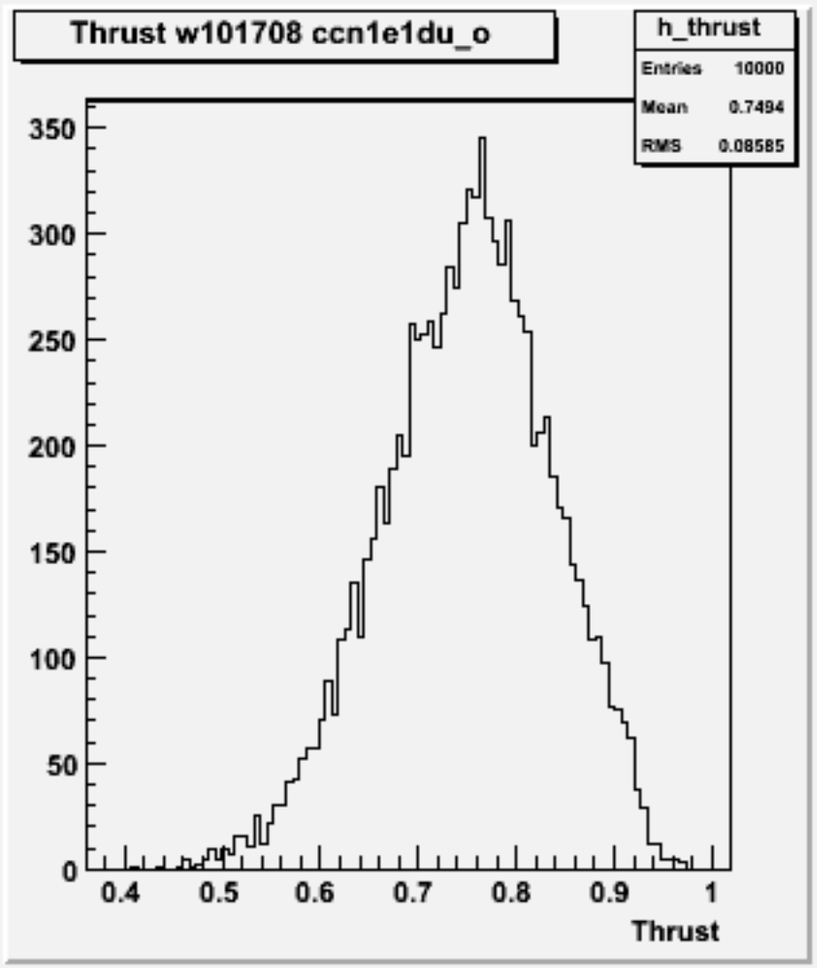

Total Energy (inc. ν): w101708 ccn1e1du_o
h_etot
Entries 10000
Mean 347.9
RMS 4.533
10^3
10^2
10
1
280 290 300 310 320 330 340 350
Total Energy(GeV)

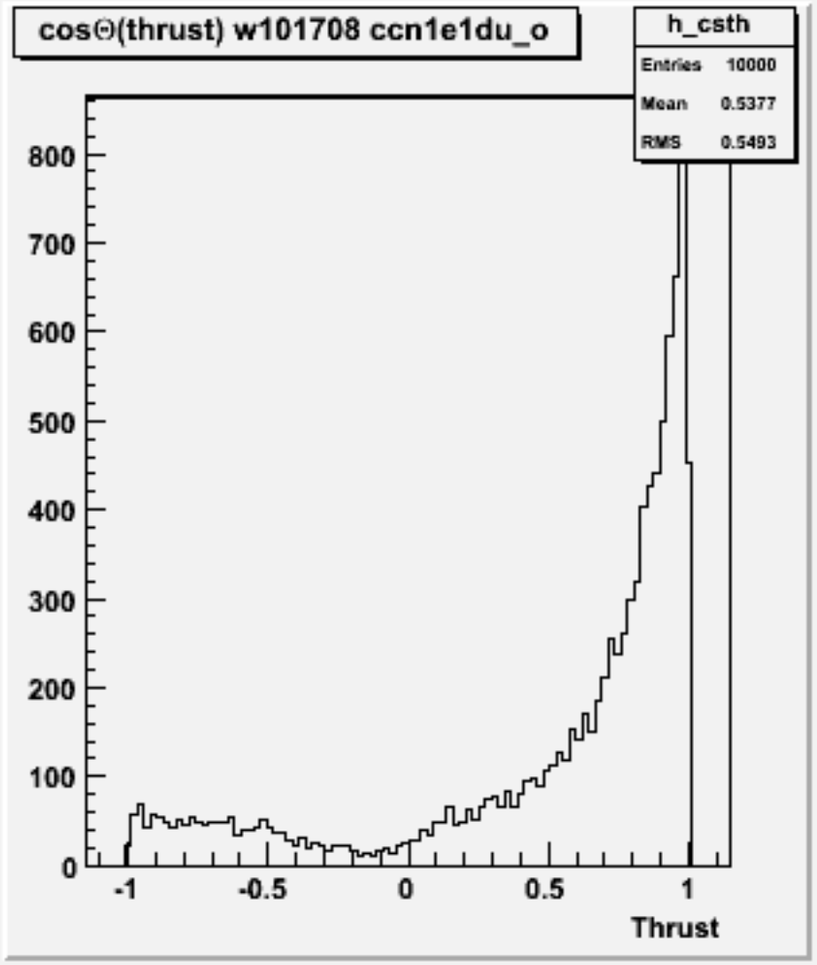

Total Energy (inc. ν): w101708 ccn1e1du_o
h_etotc
Entries 9409
Mean 348.8
RMS 2.19
10^3
10^2
10
1
340 342 344 346 348 350 352
Total Energy(GeV)

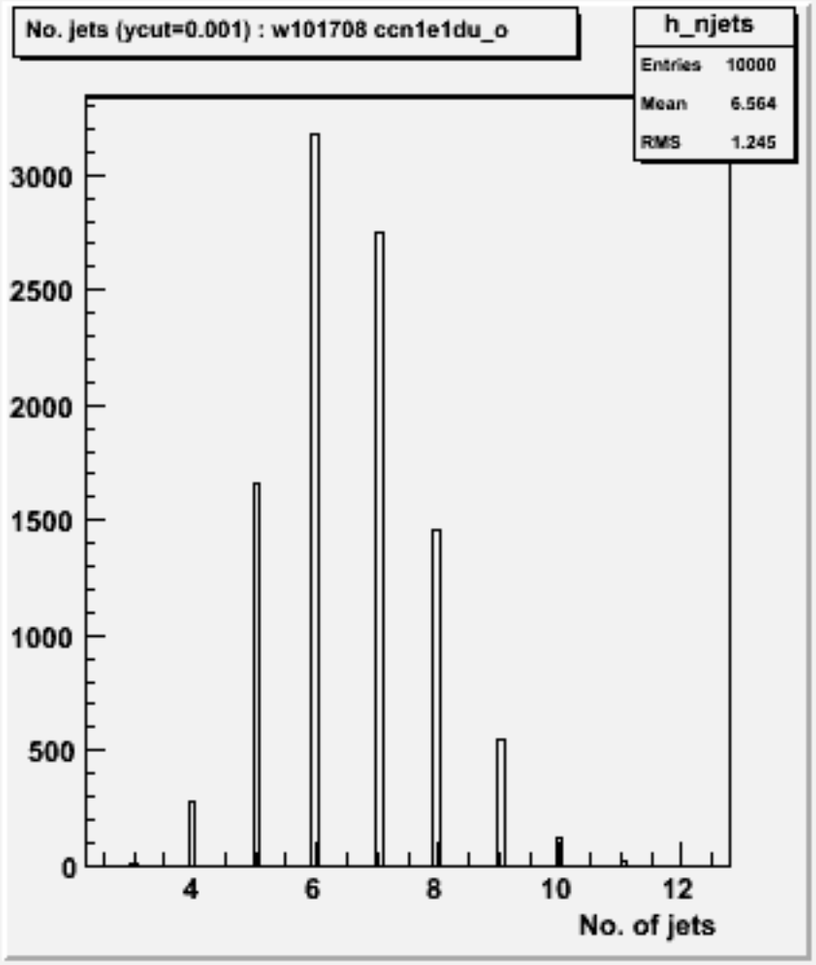

Total Energy (w/o ν): w101708 ccn1e1du_o
h_evis
Entries 10000
Mean 288.5
RMS 27.33
10^2
10
1
180 200 220 240 260 280 300 320 340 360
Energy(GeV)

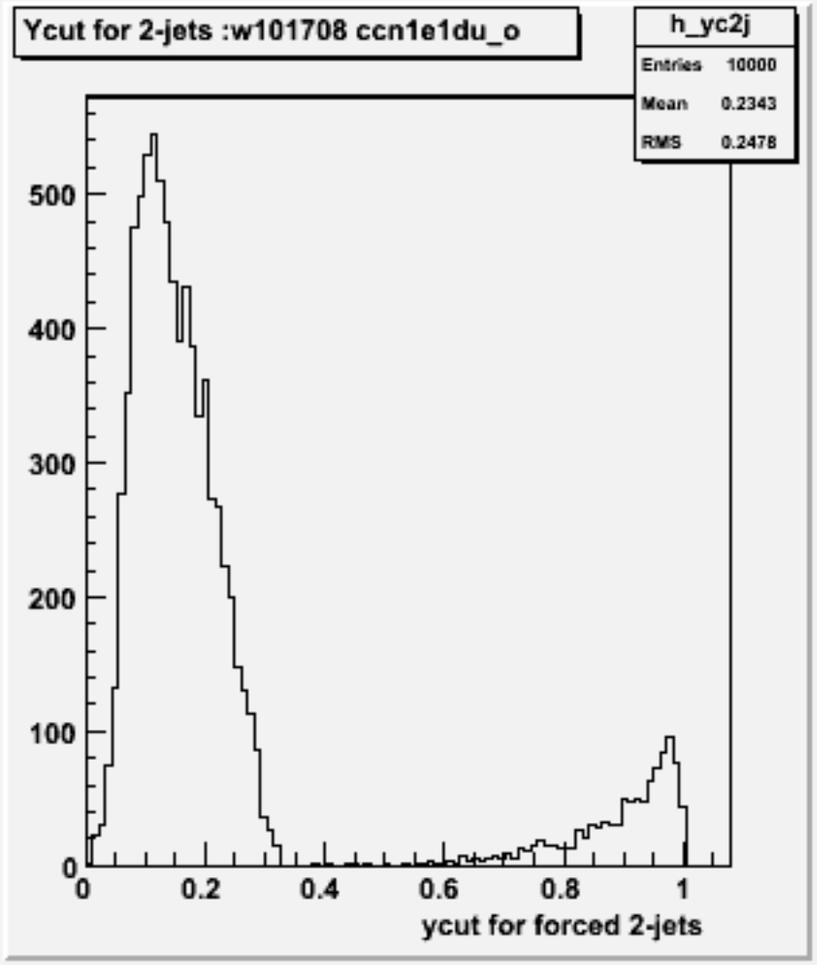

Pt Sum: w101708 ccn1e1du_o
h_pt
Entries 10000
Mean 33.44
RMS 20.68
10^2
10
1
0 20 40 60 80 100 120 140
Pt(sum) (GeV)

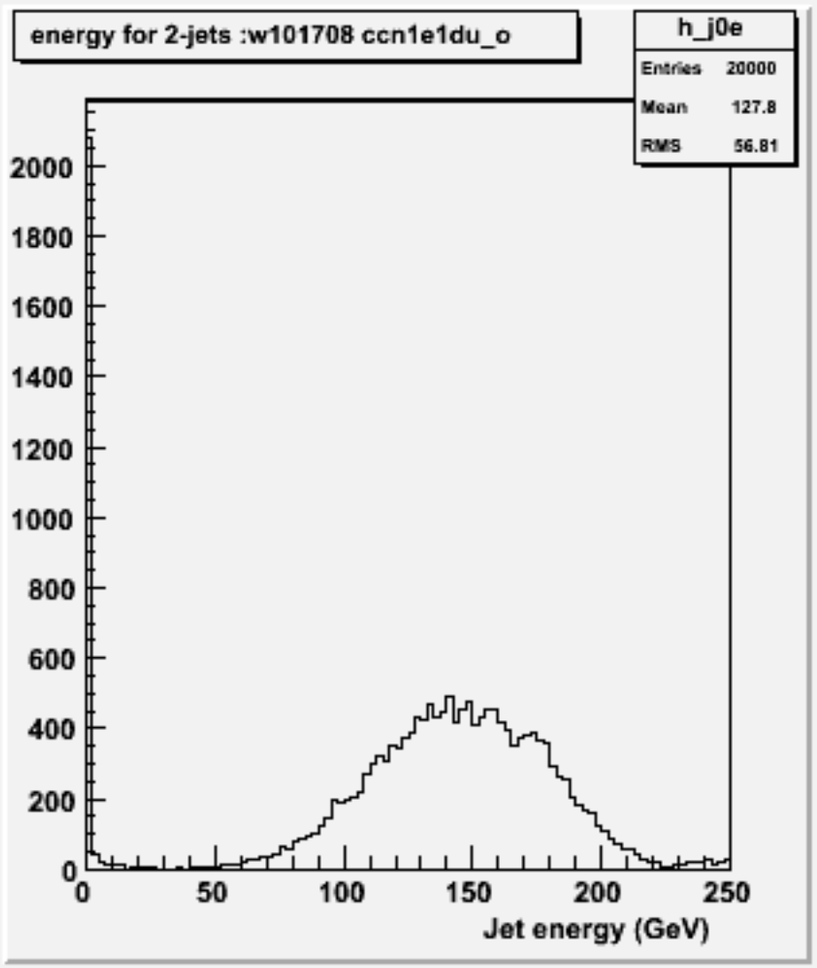

Pz Sum: w101708 ccn1e1du_o
h_pz
Entries 10000
Mean -33.68
RMS 34.48
10^2
10
1
-150 -100 -50 0 50 100
Pz(sum) (GeV)

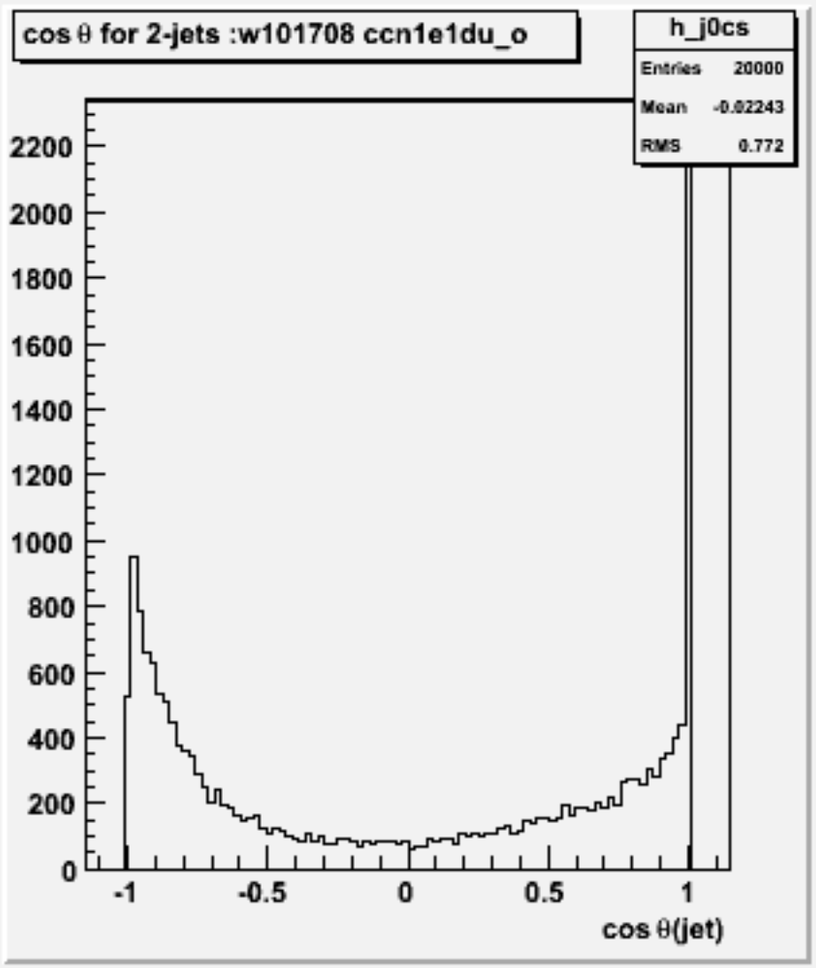

Thrust w101708 ccn1e1du_o
h_thrust
Entries 10000
Mean 0.7494
RMS 0.08585
350
300
250
200
150
100
50
0
0.4 0.5 0.6 0.7 0.8 0.9 1
Thrust

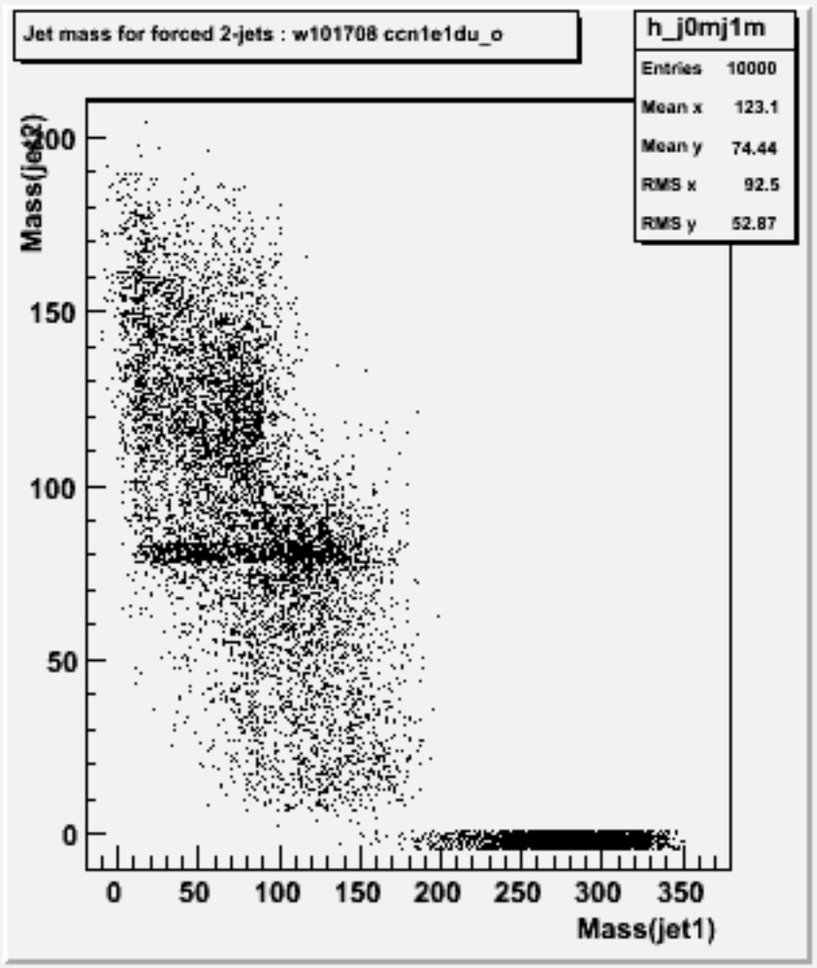

cosΘ(thrust) w101708 ccn1e1du_o
h_csth
Entries 10000
Mean 0.5377
RMS 0.5493
Thrust

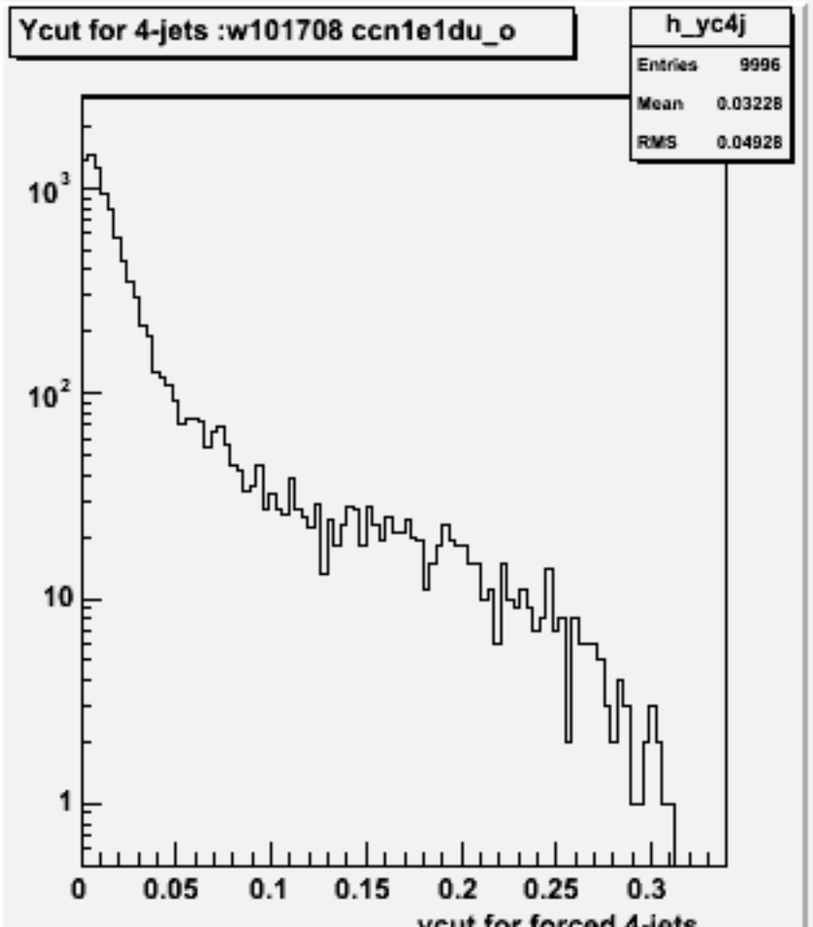

No. jets (ycut=0.001) : w101708 ccn1e1du_o
h_njets
Entries 10000
Mean 6.564
RMS 1.245
No. of jets

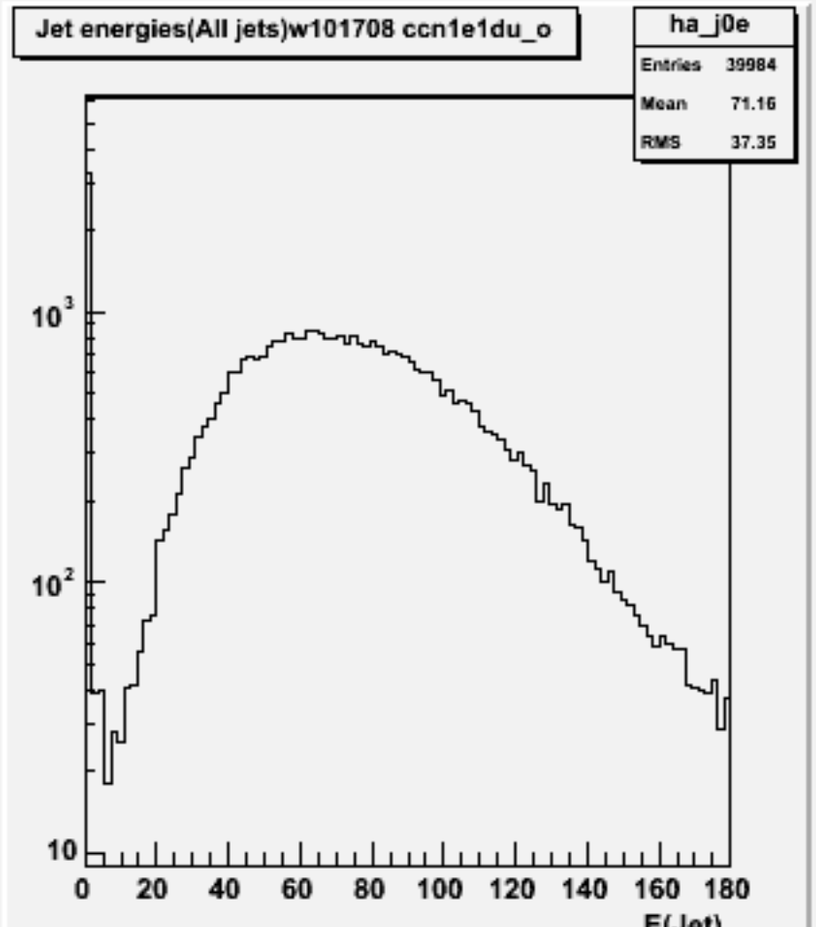

Ycut for 2-jets :w101708 ccn1e1du_o
h_yc2j
Entries 10000
Mean 0.2343
RMS 0.2478
ycut for forced 2-jets

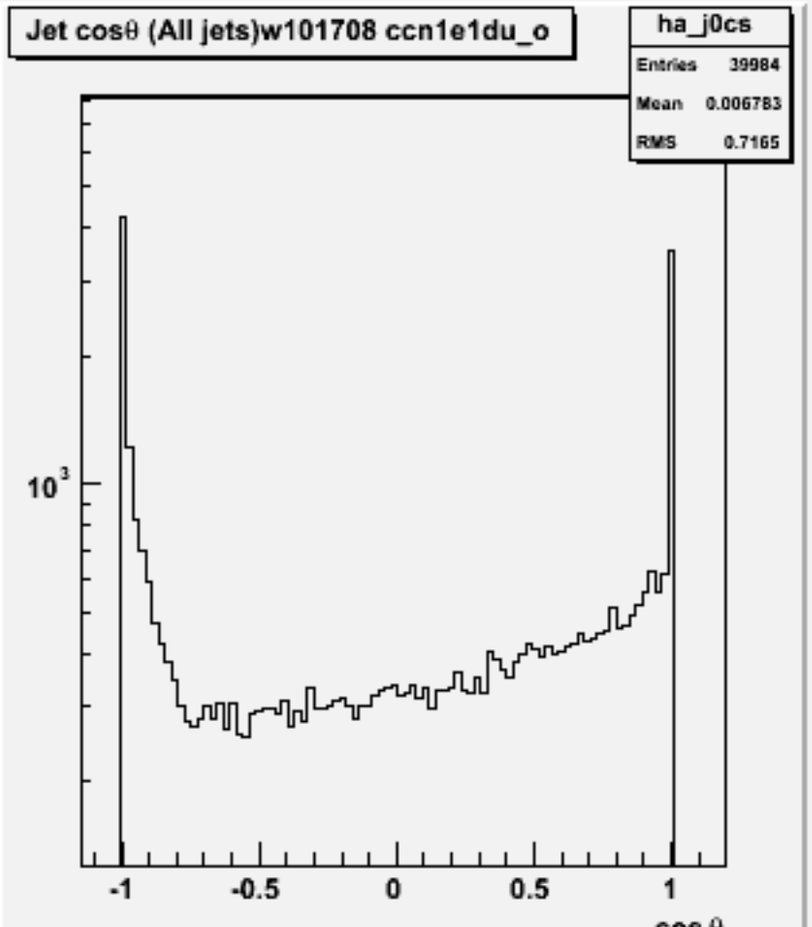

energy for 2-jets :w101708 ccn1e1du_o
h_j0e
Entries 20000
Mean 127.8
RMS 56.81
Jet energy (GeV)

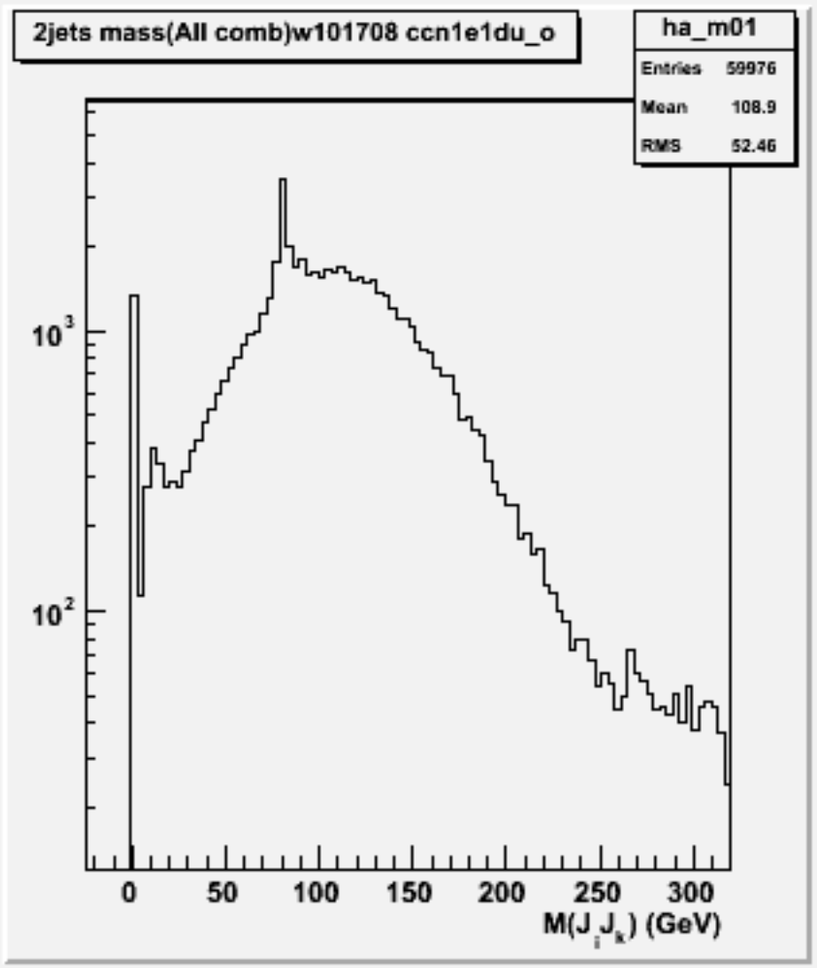

cos θ for 2-jets :w101708 ccn1e1du_o
h_j0cs
Entries 20000
Mean -0.02243
RMS 0.772
cos θ(jet)


Jet mass for forced 2-jets : w101708 ccn1e1du_o
h_j0mj1m
Entries 10000
Mean x 123.1
Mean y 74.44
RMS x 92.5
RMS y 52.87
Mass(jet2)
Mass(jet1)


Ycut for 4-jets :w101708 ccn1e1du_o
h_yc4j
Entries 9996
Mean 0.03228
RMS 0.04928
10^3
10^2
10
1
0 0.05 0.1 0.15 0.2 0.25 0.3
ycut for forced 4-jets


Jet energies(All jets)w101708 ccn1e1du_o
ha_j0e
Entries 39984
Mean 71.16
RMS 37.35
10^3
10^2
10
0 20 40 60 80 100 120 140 160 180
E(Jet)


Jet cosθ (All jets)w101708 ccn1e1du_o
ha_j0cs
Entries 39984
Mean 0.006783
RMS 0.7165
10^3
-1 -0.5 0 0.5 1
cos θ


2jets mass(All comb)w101708 ccn1e1du_o
ha_m01
Entries 59976
Mean 108.9
RMS 52.46
10^3
10^2
0 50 100 150 200 250 300
$M(J_iJ_k)$ (GeV)