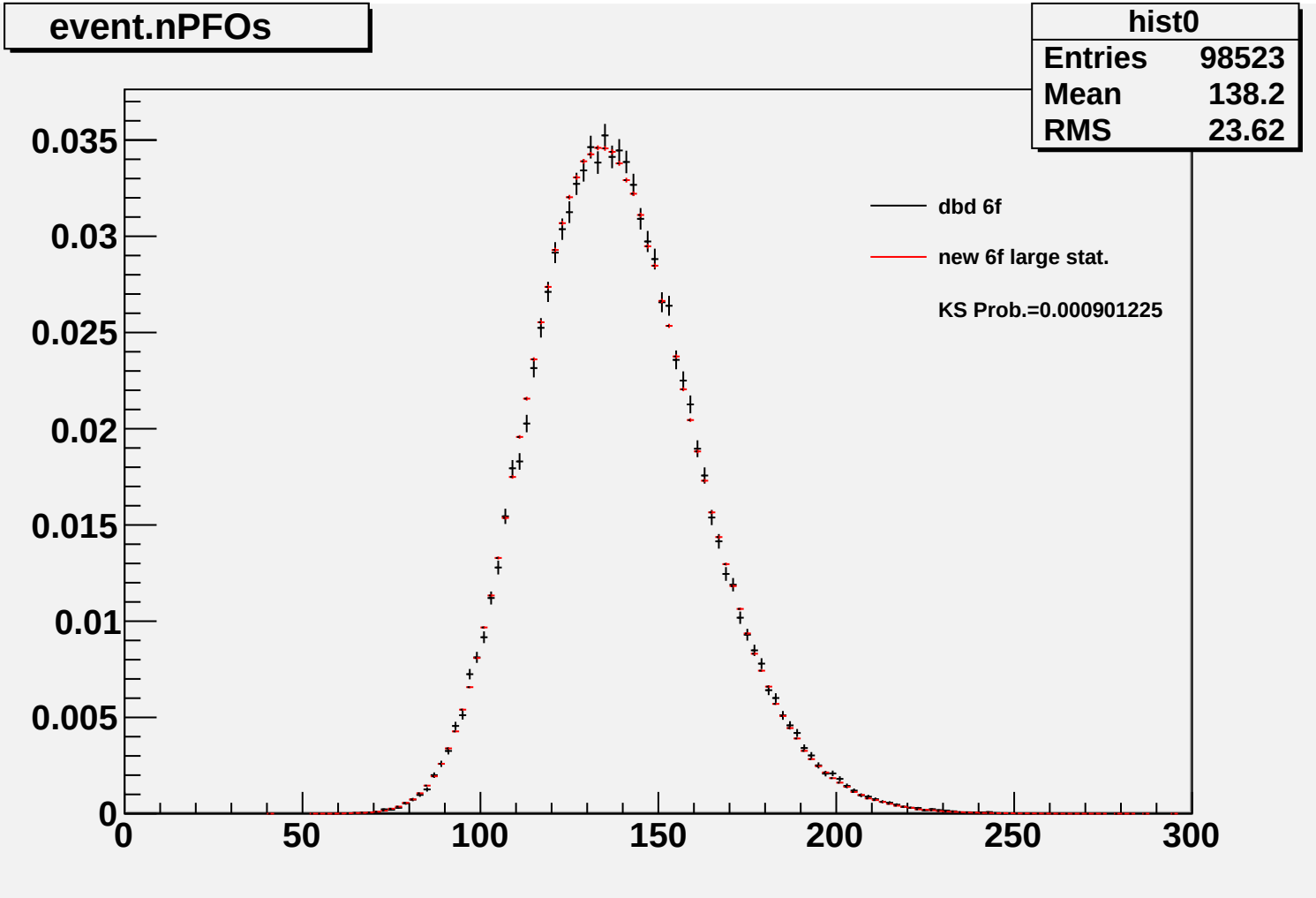
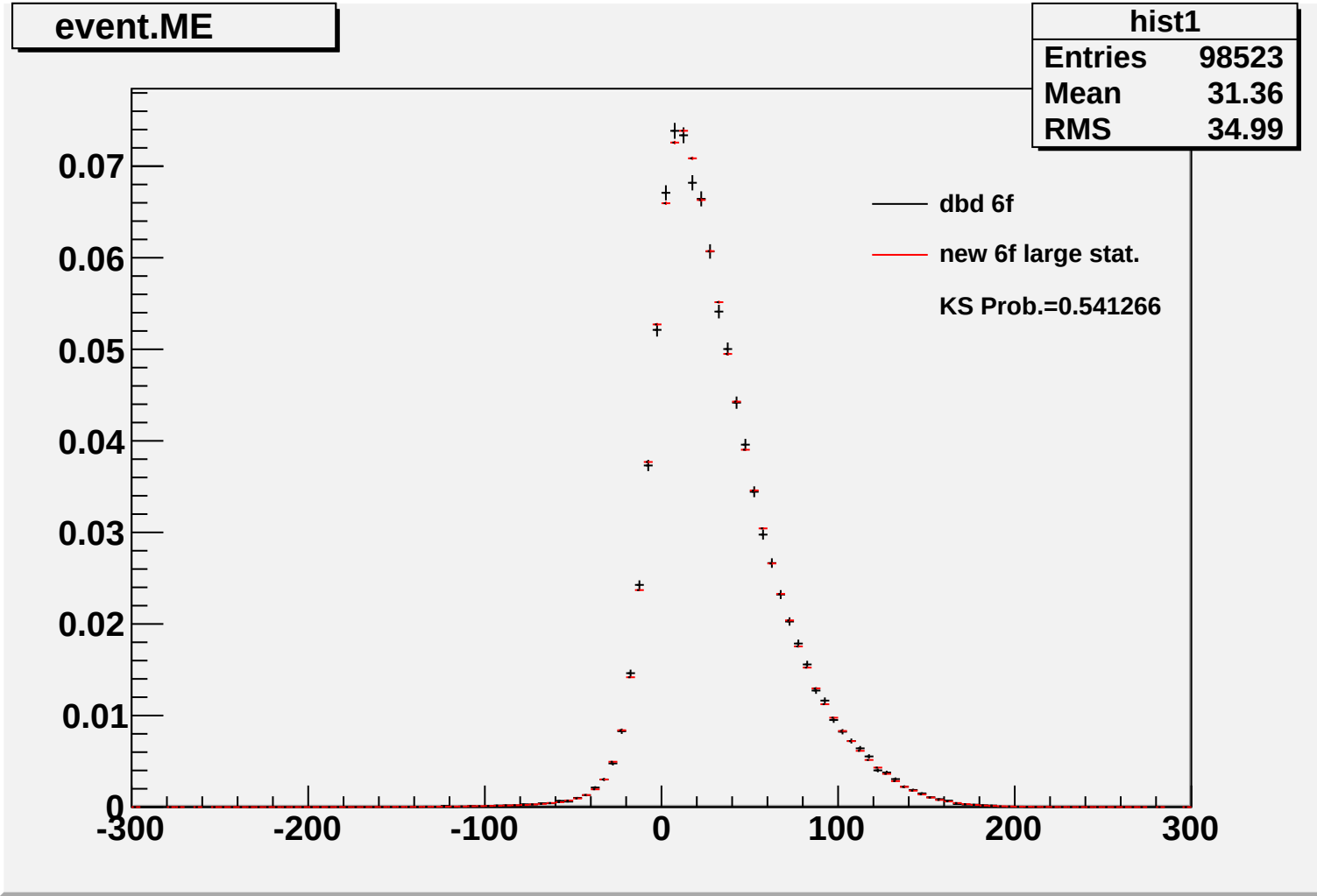
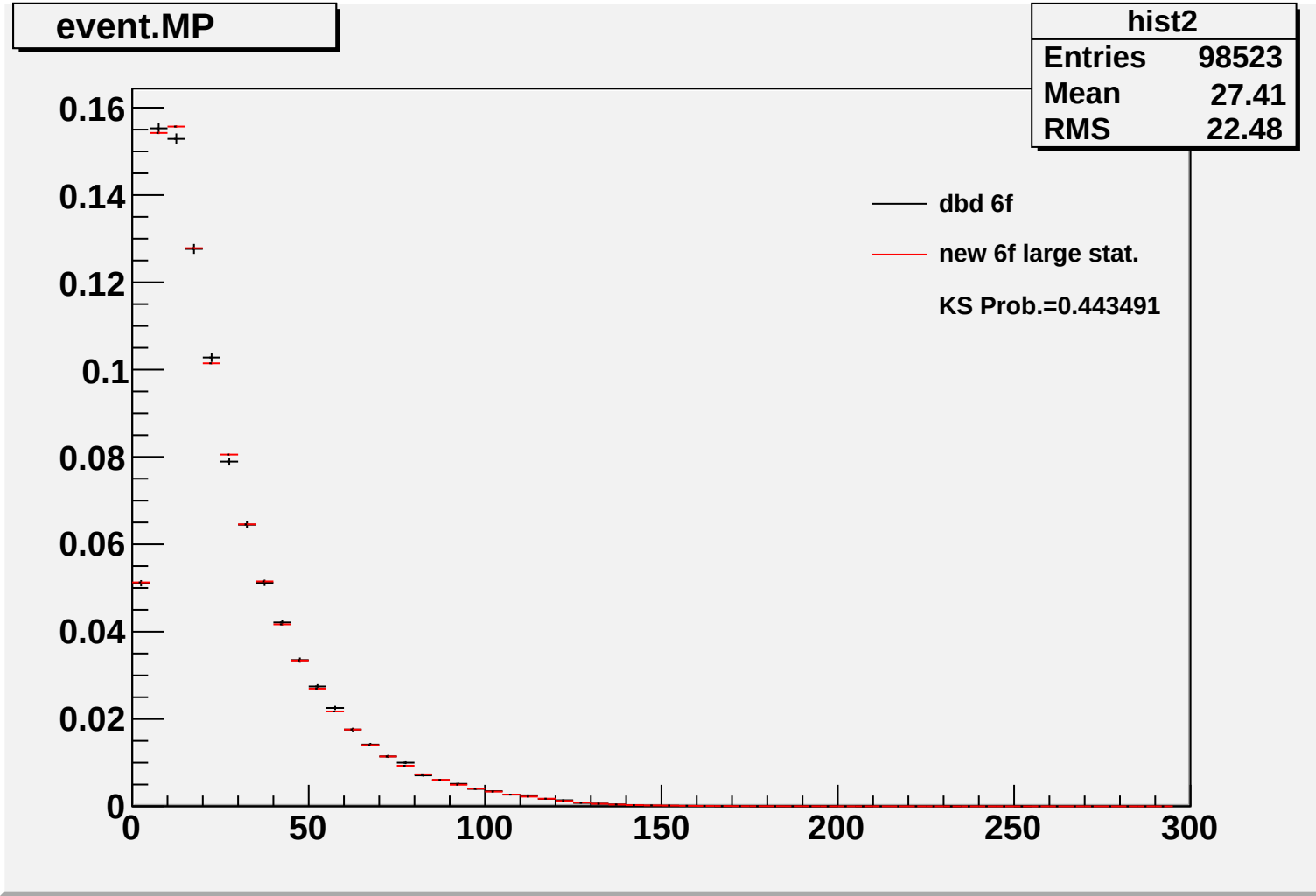
- made some validation plot of new 6f samples

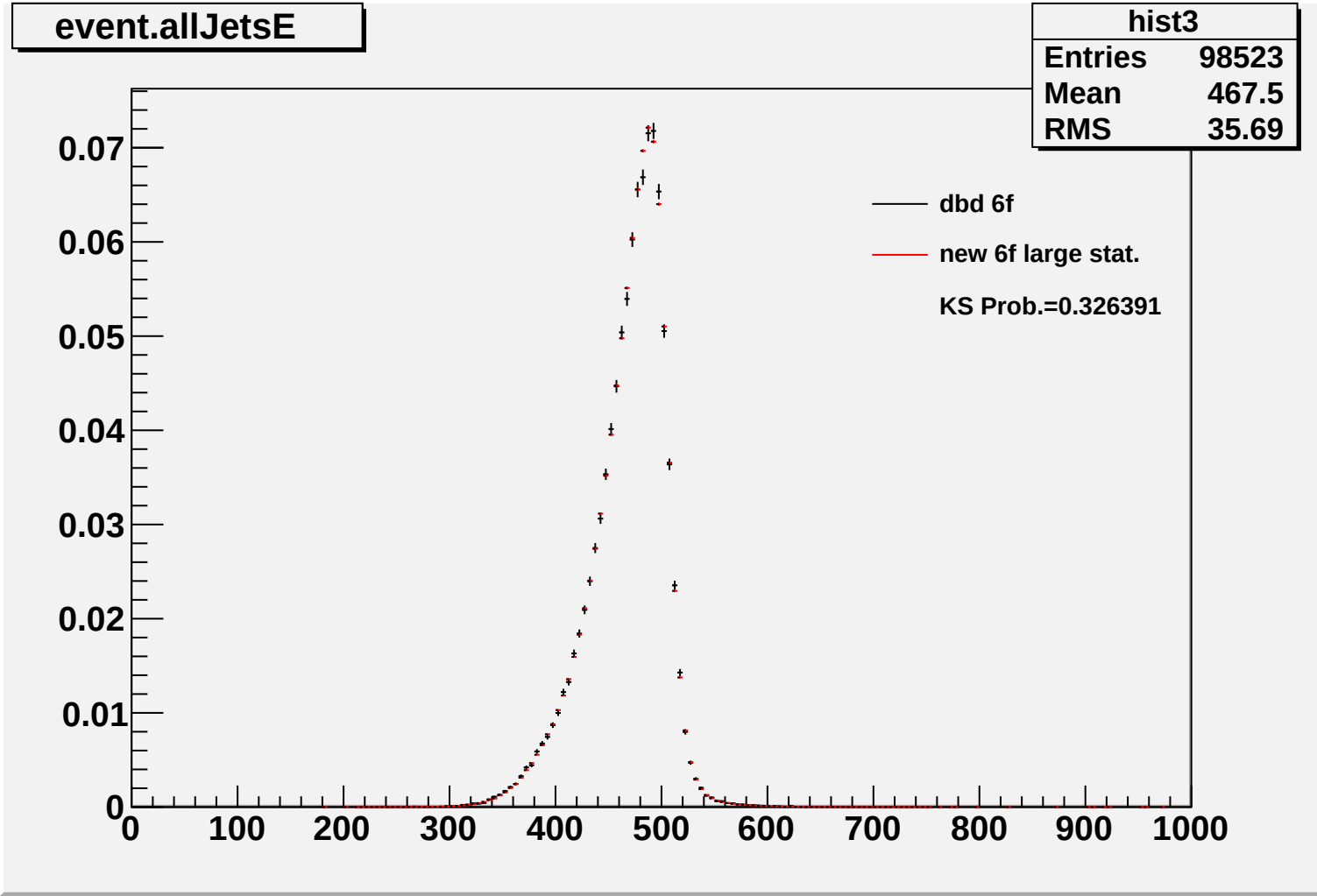
- energy and momentum of jets, missing and leptons of new 6f samples are in good agreement with current DBD 6f samples.
- Number of PFOs are slightly different

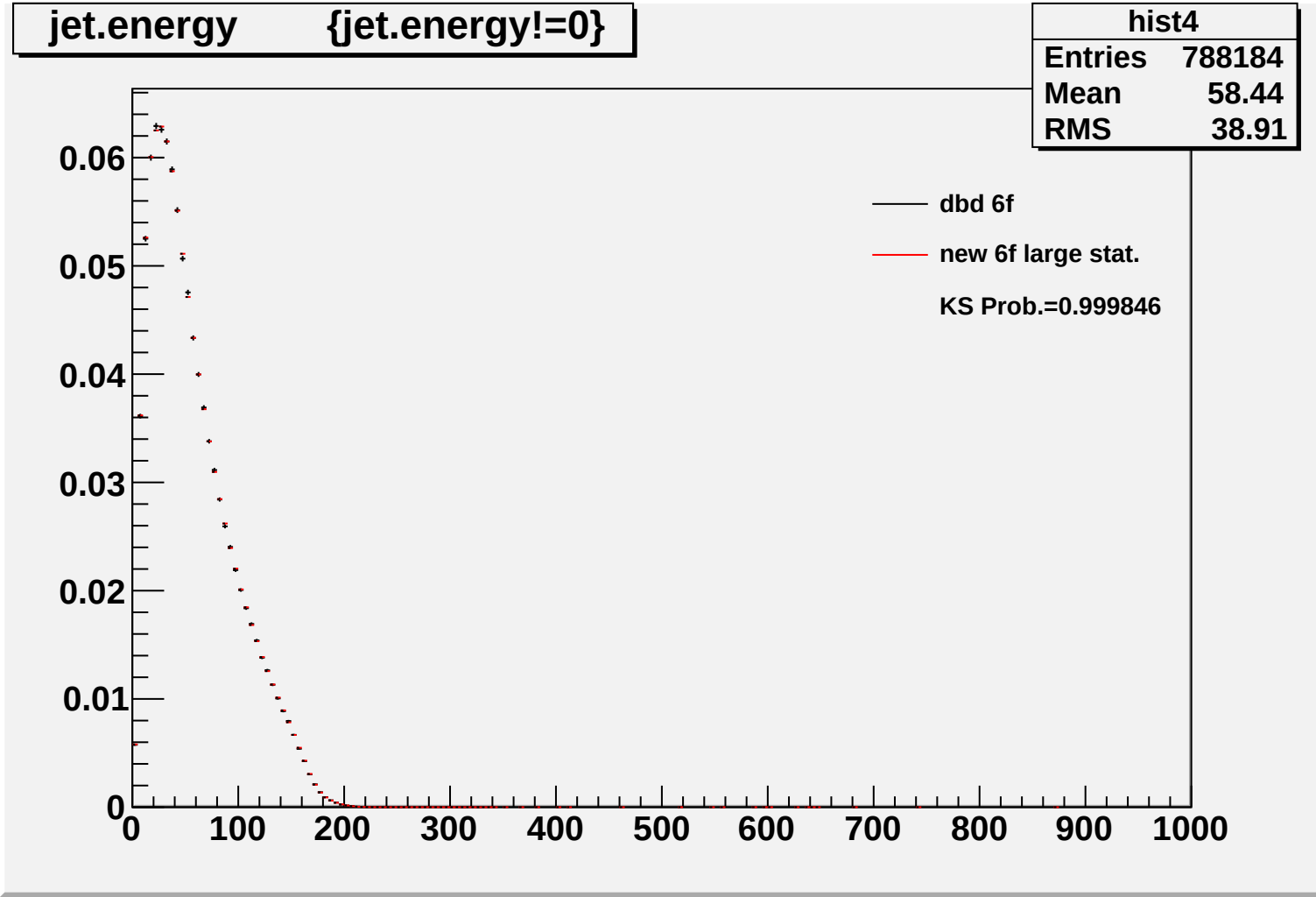
- modify my analysis code to optimize event selection cuts.

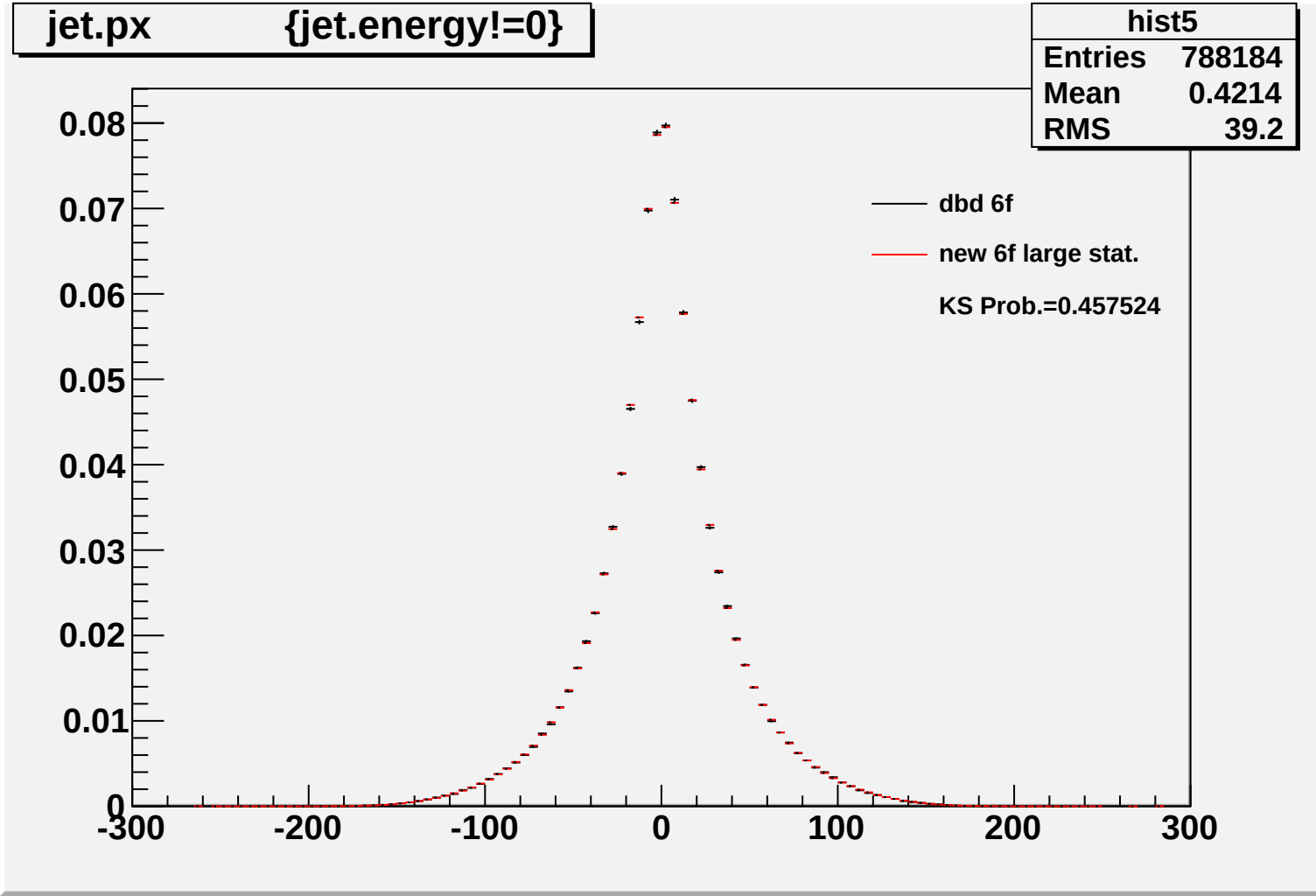

event.nPFOs
hist0
Entries 98523
Mean 138.2
RMS 23.62
dbd 6f
new 6f large stat.
KS Prob.=0.000901225
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
0
50
100
150
200
250
300

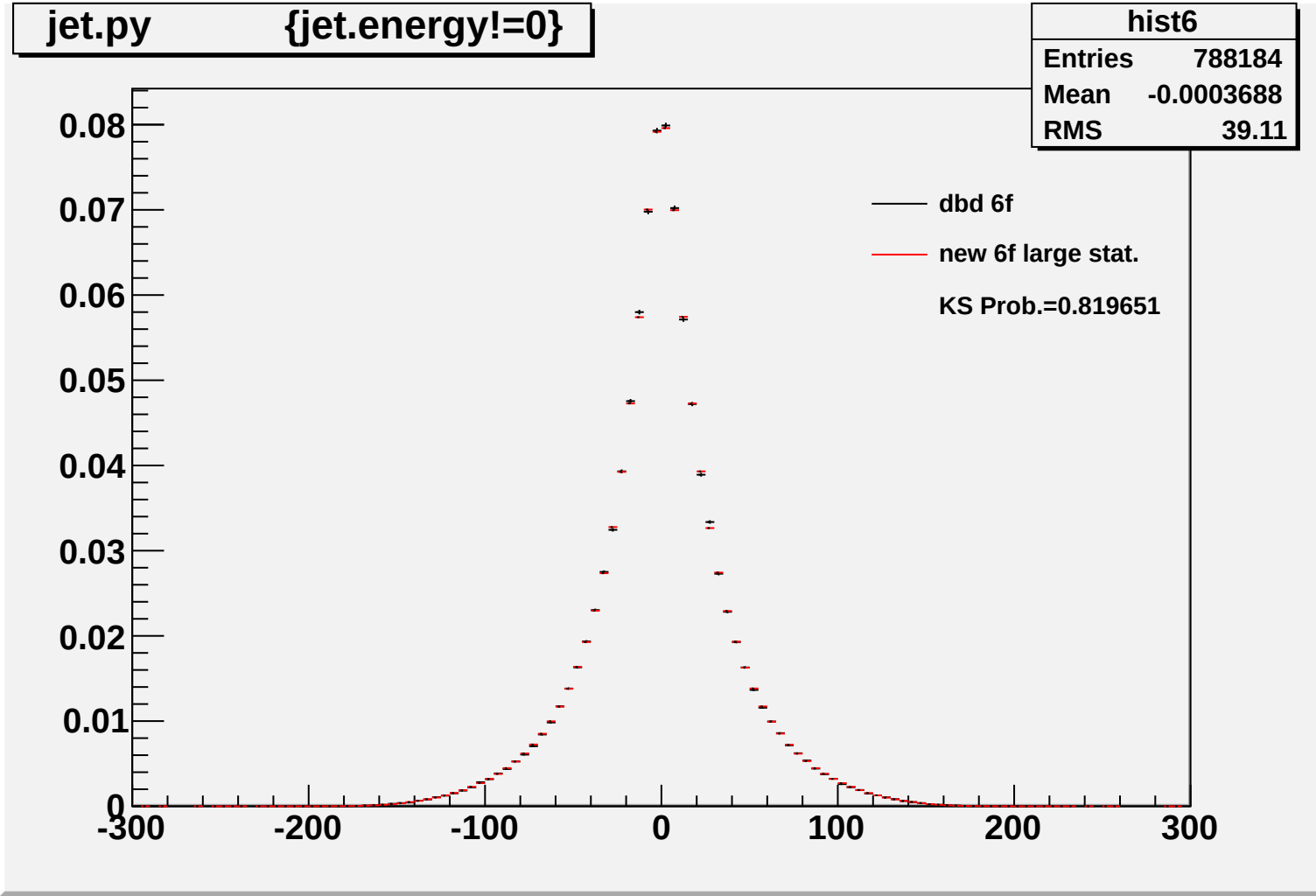

event.ME
hist1
Entries 98523
Mean 31.36
RMS 34.99
dbd 6f
new 6f large stat.
KS Prob.=0.541266
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-300
-200
-100
0
100
200
300

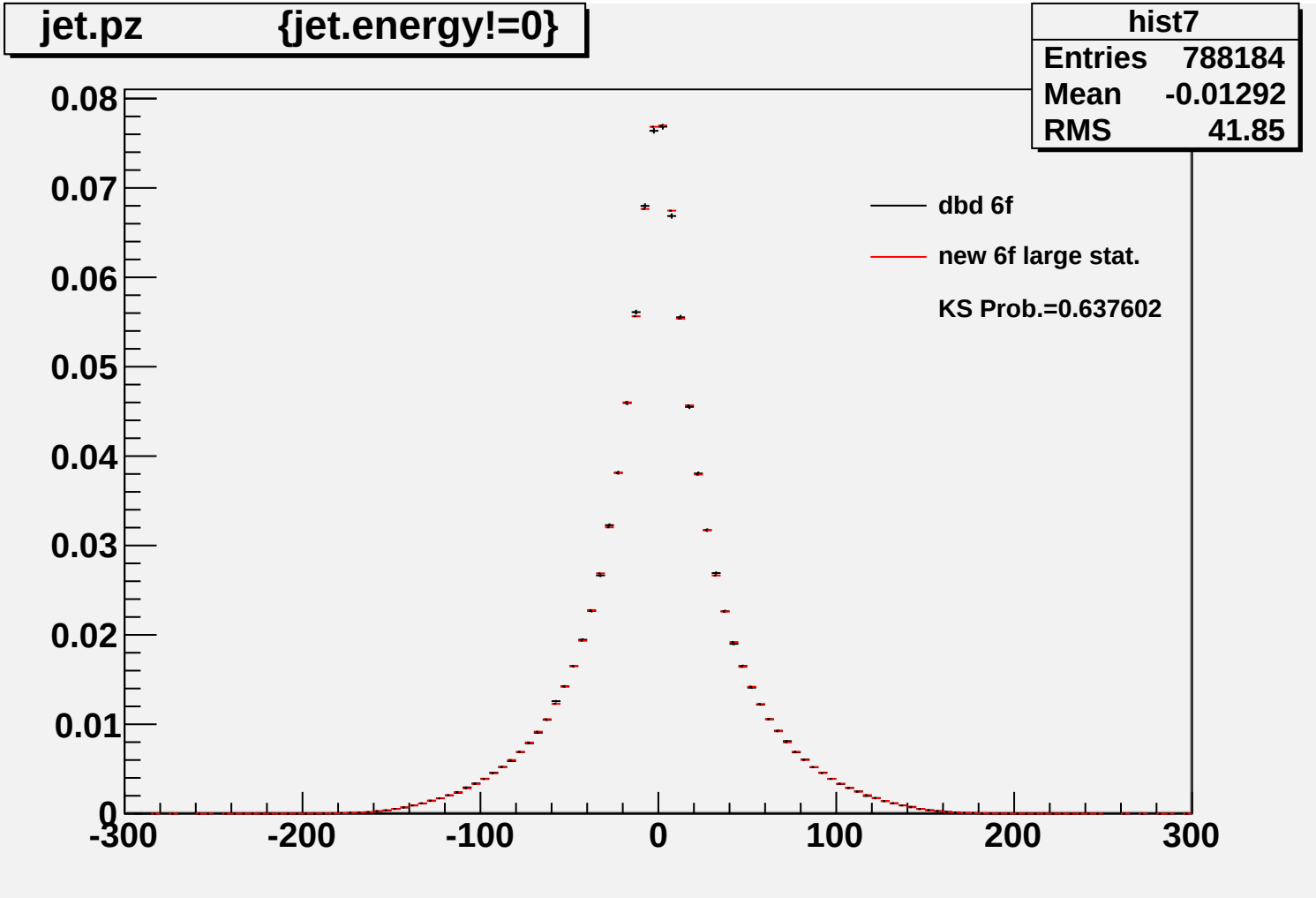

event.MP
hist2
Entries 98523
Mean 27.41
RMS 22.48
dbd 6f
new 6f large stat.
KS Prob.=0.443491
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
50
100
150
200
250
300

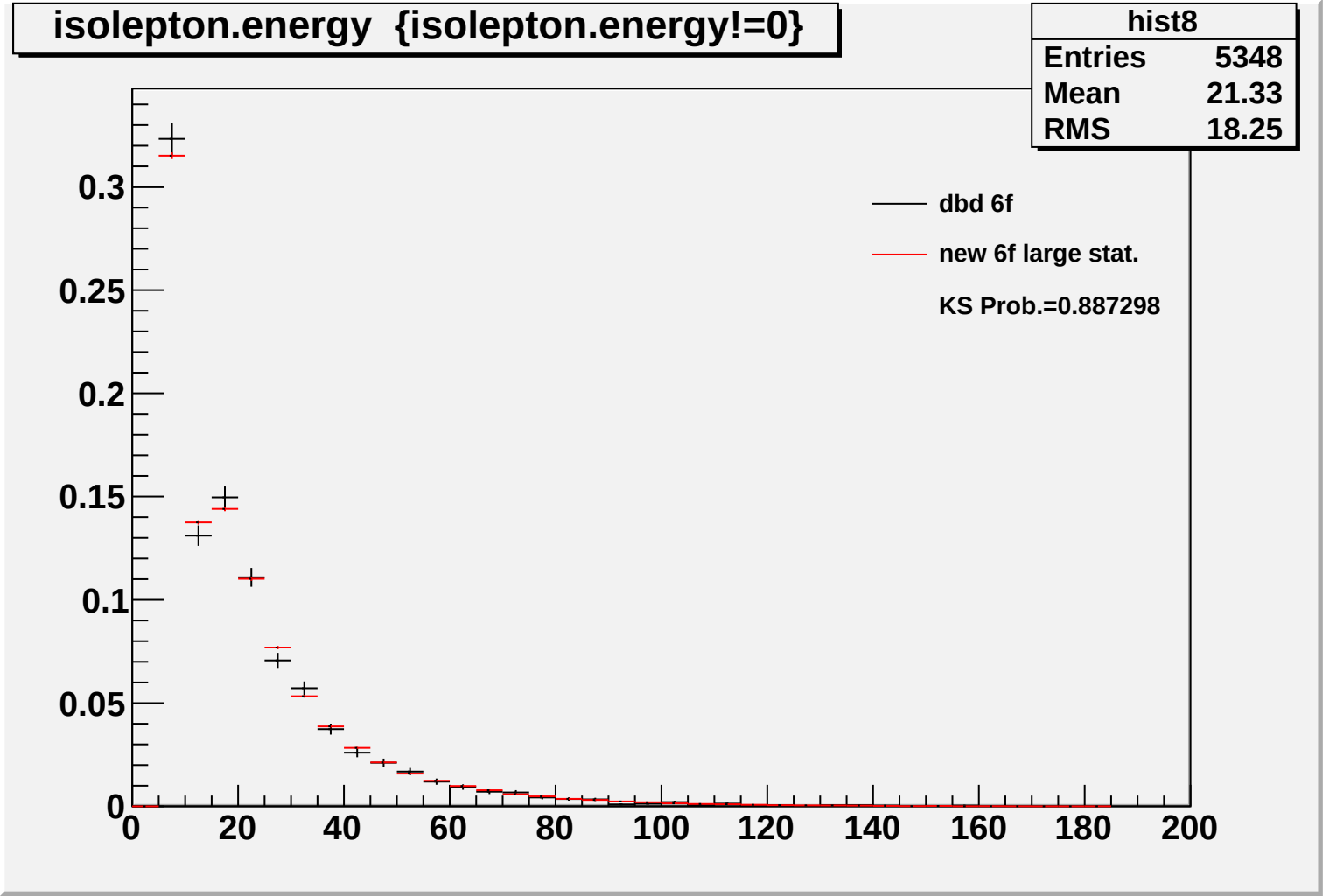

event.allJetsE
hist3
Entries 98523
Mean 467.5
RMS 35.69
dbd 6f
new 6f large stat.
KS Prob.=0.326391
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0 100 200 300 400 500 600 700 800 900 1000

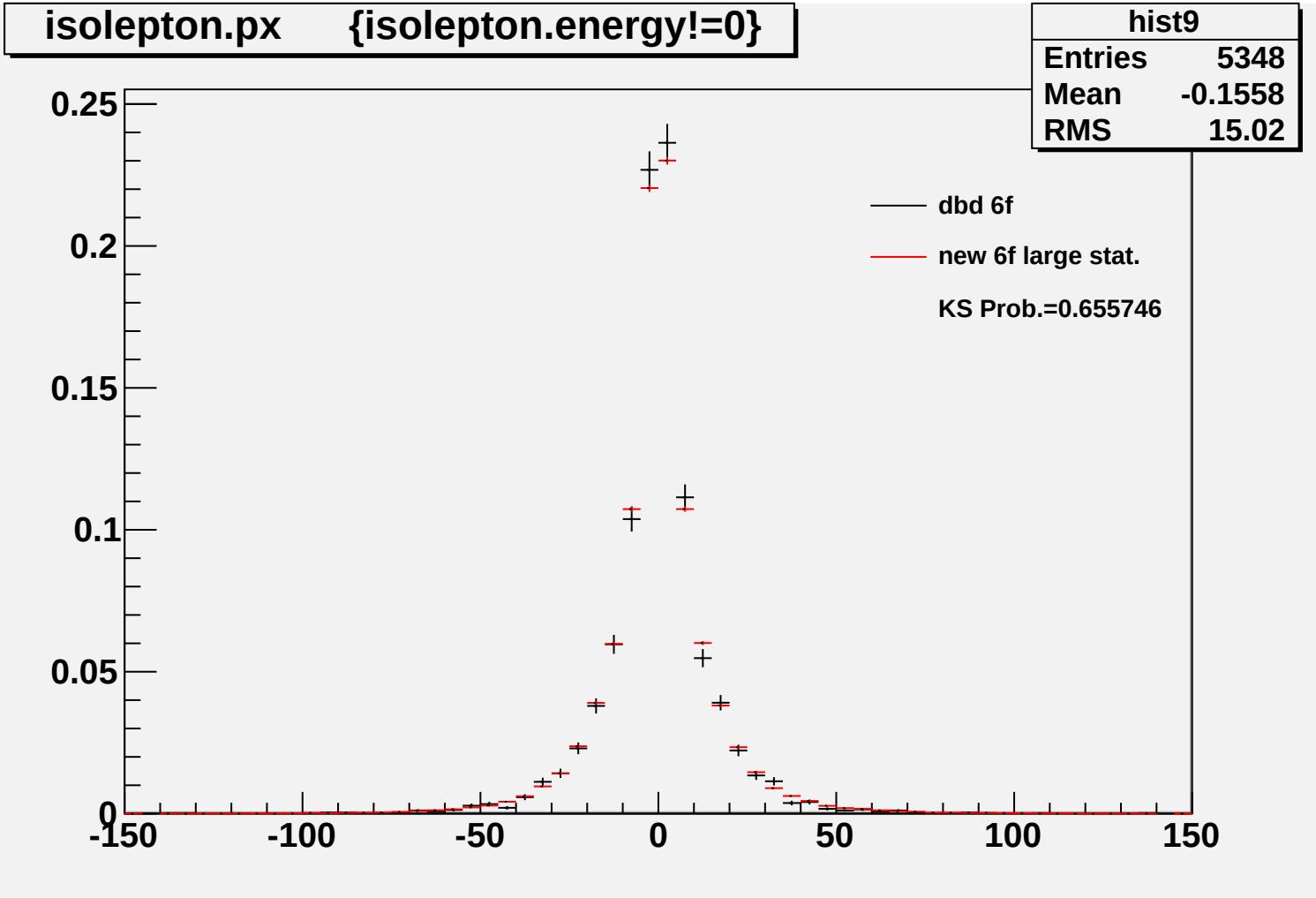

jet.energy {jet.energy!=0}
hist4
Entries 788184
Mean 58.44
RMS 38.91
dbd 6f
new 6f large stat.
KS Prob.=0.999846
0.06
0.05
0.04
0.03
0.02
0.01
0
0 100 200 300 400 500 600 700 800 900 1000

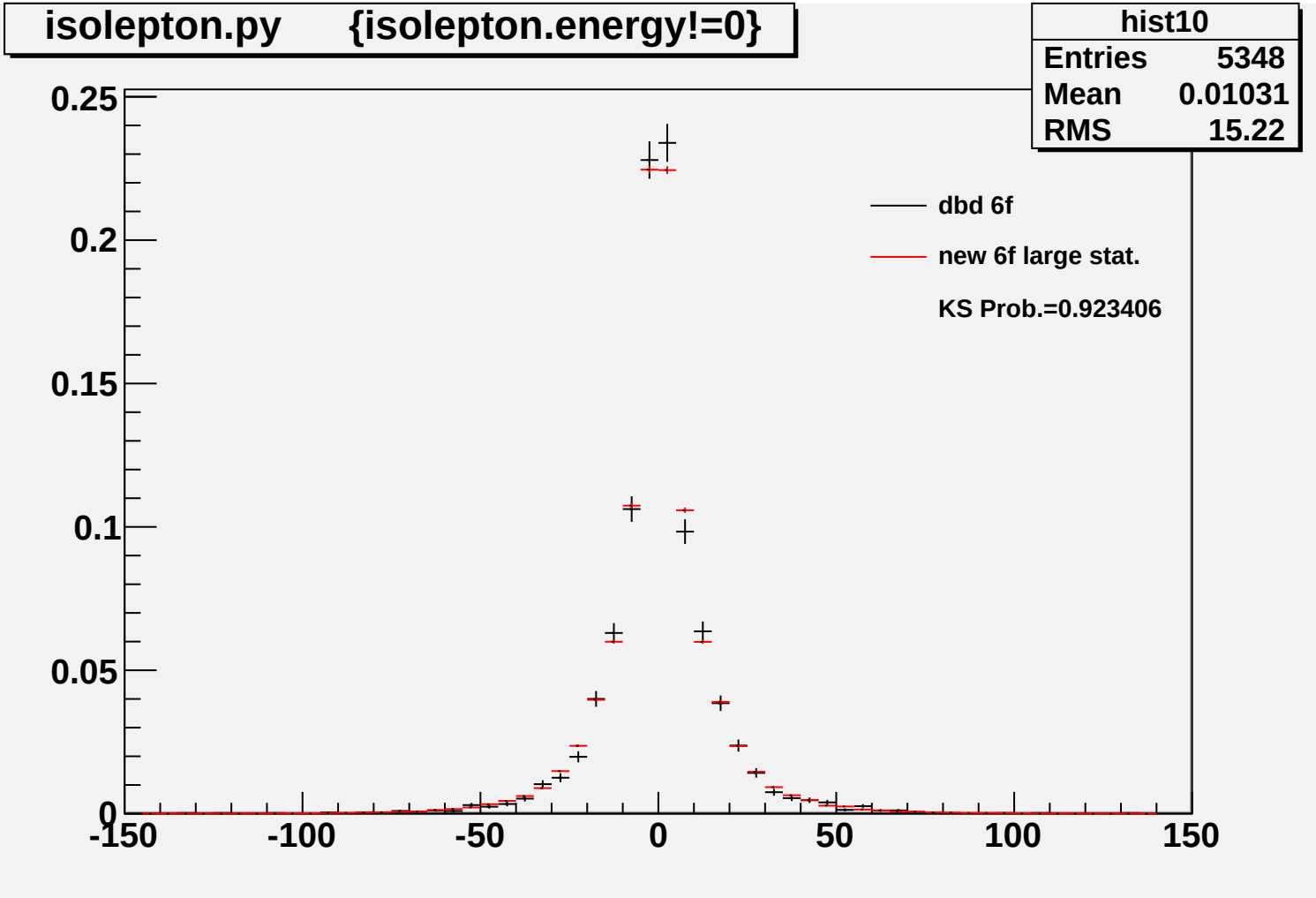

jet.px {jet.energy!=0}
hist5
Entries 788184
Mean 0.4214
RMS 39.2
dbd 6f
new 6f large stat.
KS Prob.=0.457524
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-300
-200
-100
0
100
200
300

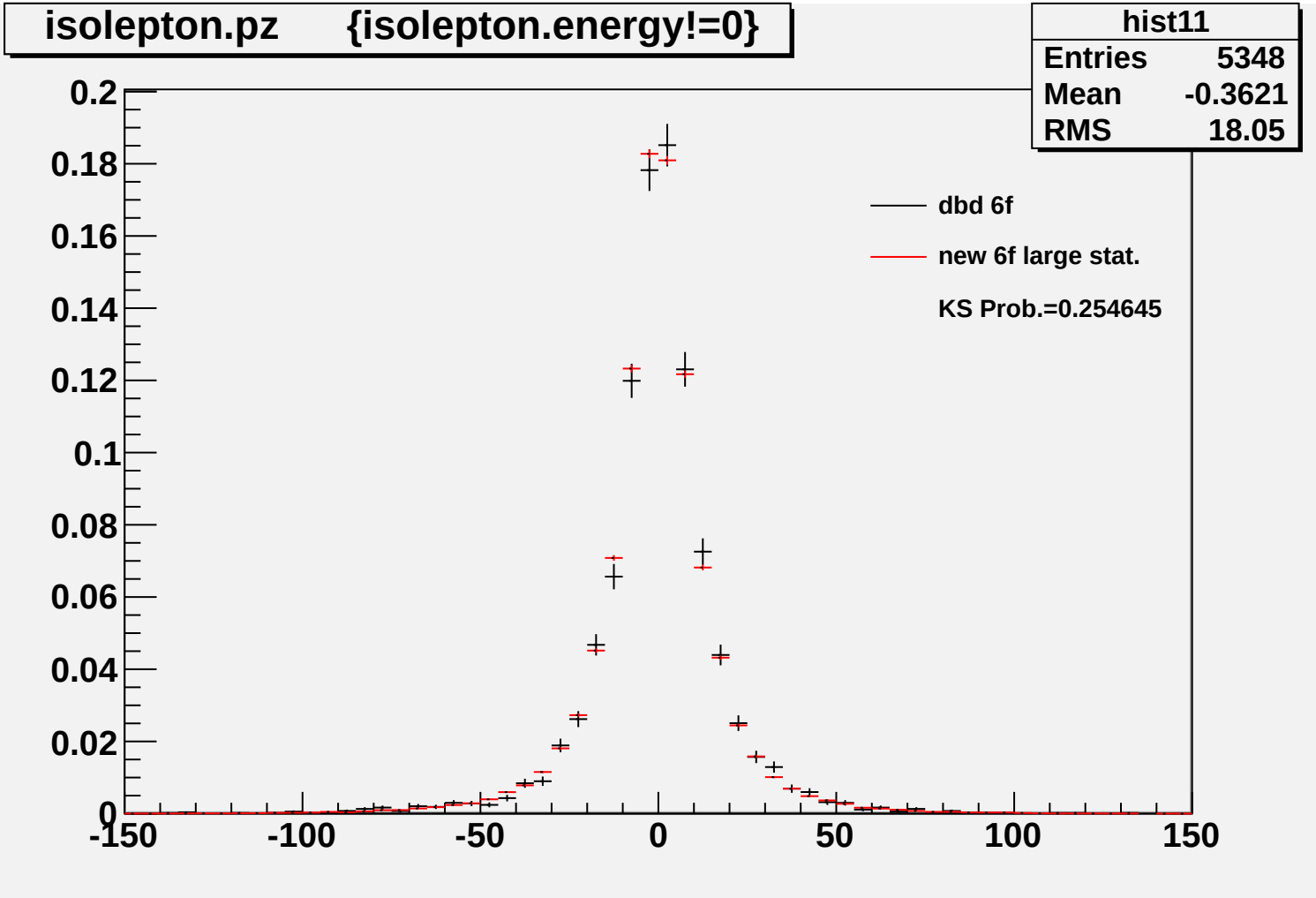

jet.py {jet.energy!=0}
hist6
Entries 788184
Mean -0.0003688
RMS 39.11
dbd 6f
new 6f large stat.
KS Prob.=0.819651
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-300
-200
-100
0
100
200
300


jet.pz {jet.energy!=0}
hist7
Entries 788184
Mean -0.01292
RMS 41.85
dbd 6f
new 6f large stat.
KS Prob.=0.637602
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-300
-200
-100
0
100
200
300


isolepton.energy {isolepton.energy!=0}
hist8
Entries 5348
Mean 21.33
RMS 18.25
dbd 6f
new 6f large stat.
KS Prob.=0.887298
0.3
0.25
0.2
0.15
0.1
0.05
0
0 20 40 60 80 100 120 140 160 180 200


isolepton.px {isolepton.energy!=0}
hist9
Entries 5348
Mean -0.1558
RMS 15.02
dbd 6f
new 6f large stat.
KS Prob.=0.655746
0.25
0.2
0.15
0.1
0.05
0
-150
-100
-50
0
50
100
150


isolepton.py {isolepton.energy!=0}
hist10
Entries 5348
Mean 0.01031
RMS 15.22
dbd 6f
new 6f large stat.
KS Prob.=0.923406
0.25
0.2
0.15
0.1
0.05
0
-150
-100
-50
0
50
100
150


isolepton.pz {isolepton.energy!=0}
hist11
Entries 5348
Mean -0.3621
RMS 18.05
dbd 6f
new 6f large stat.
KS Prob.=0.254645
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-150
-100
-50
0
50
100
150