Jet Reconstruction Efficiencies

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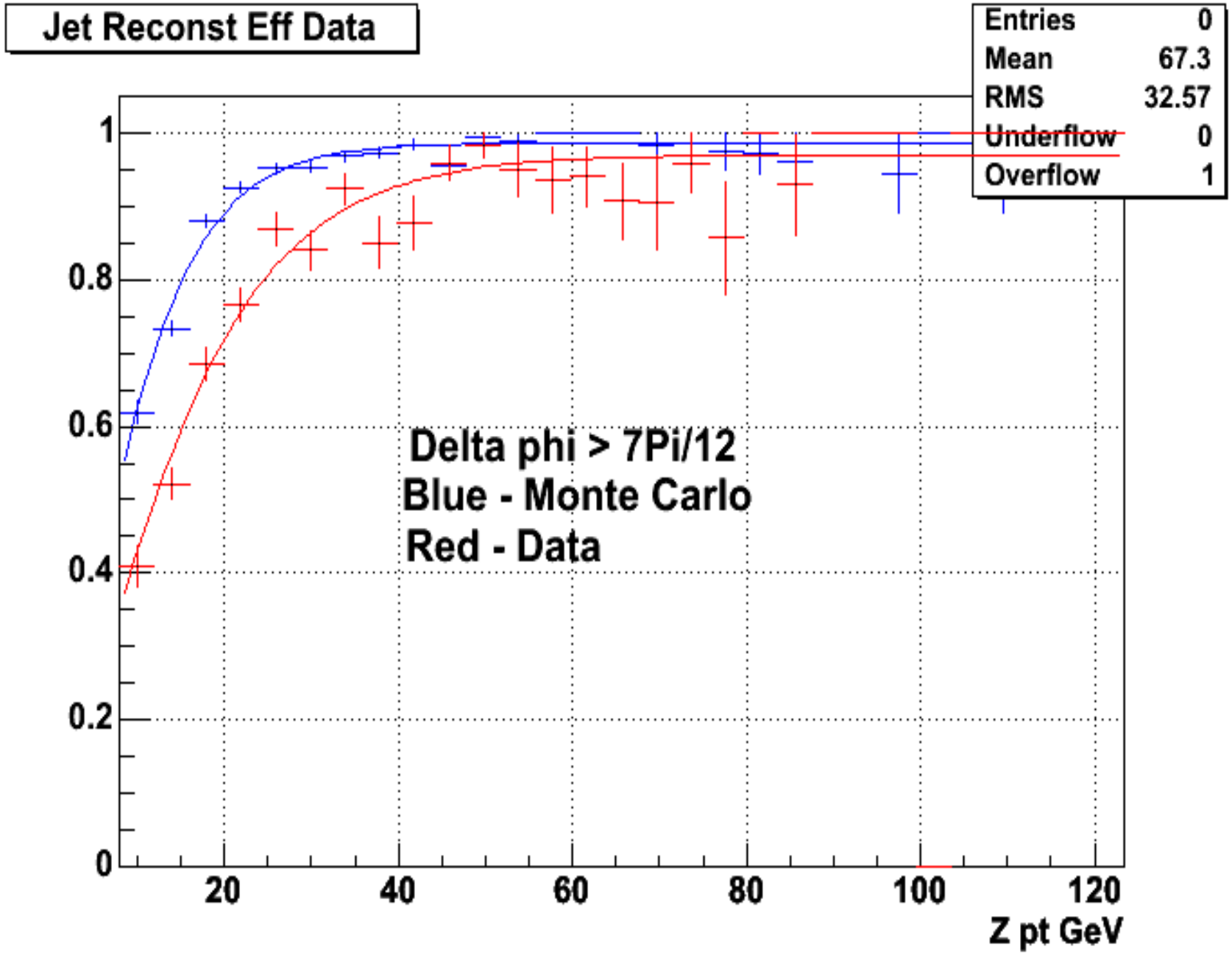
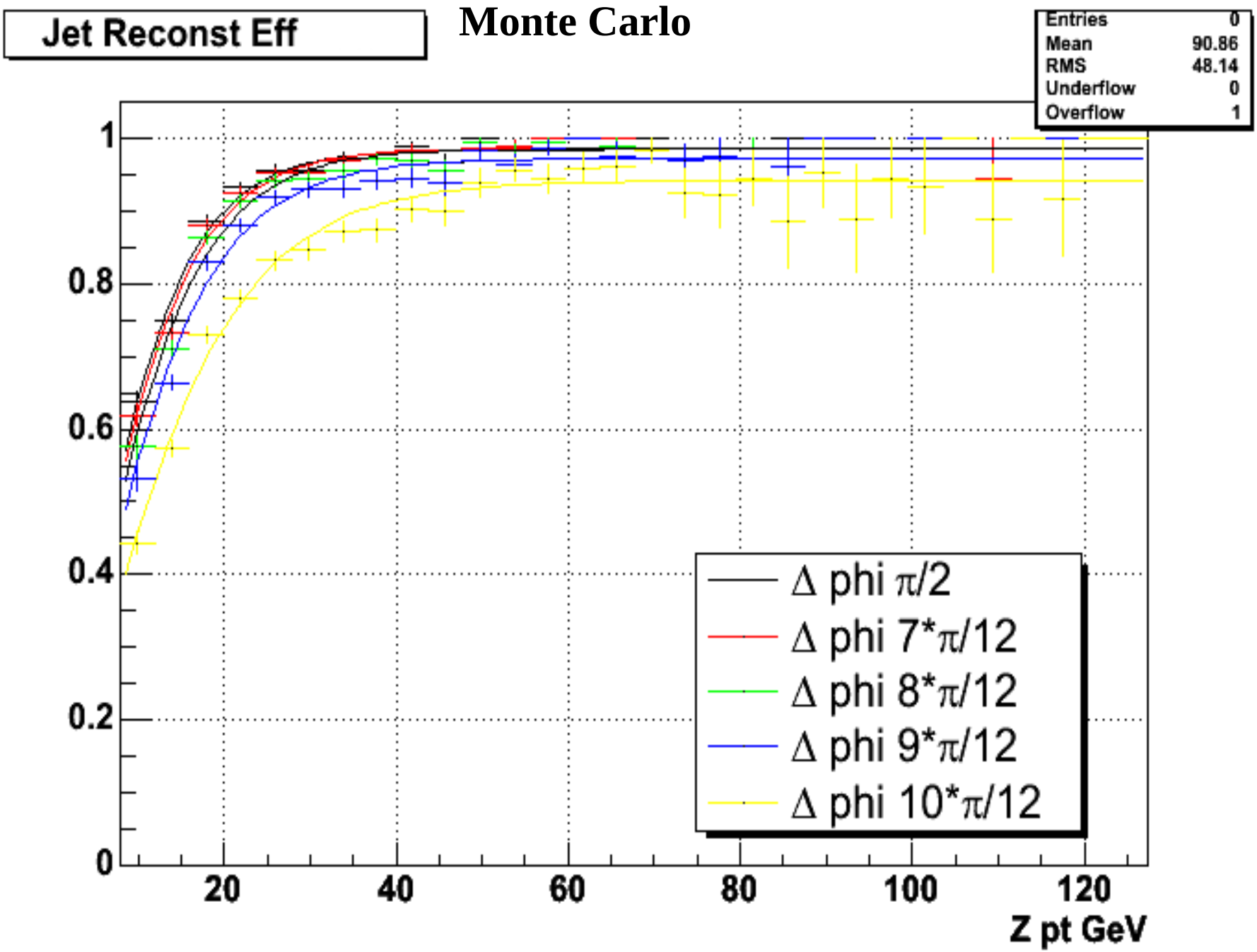
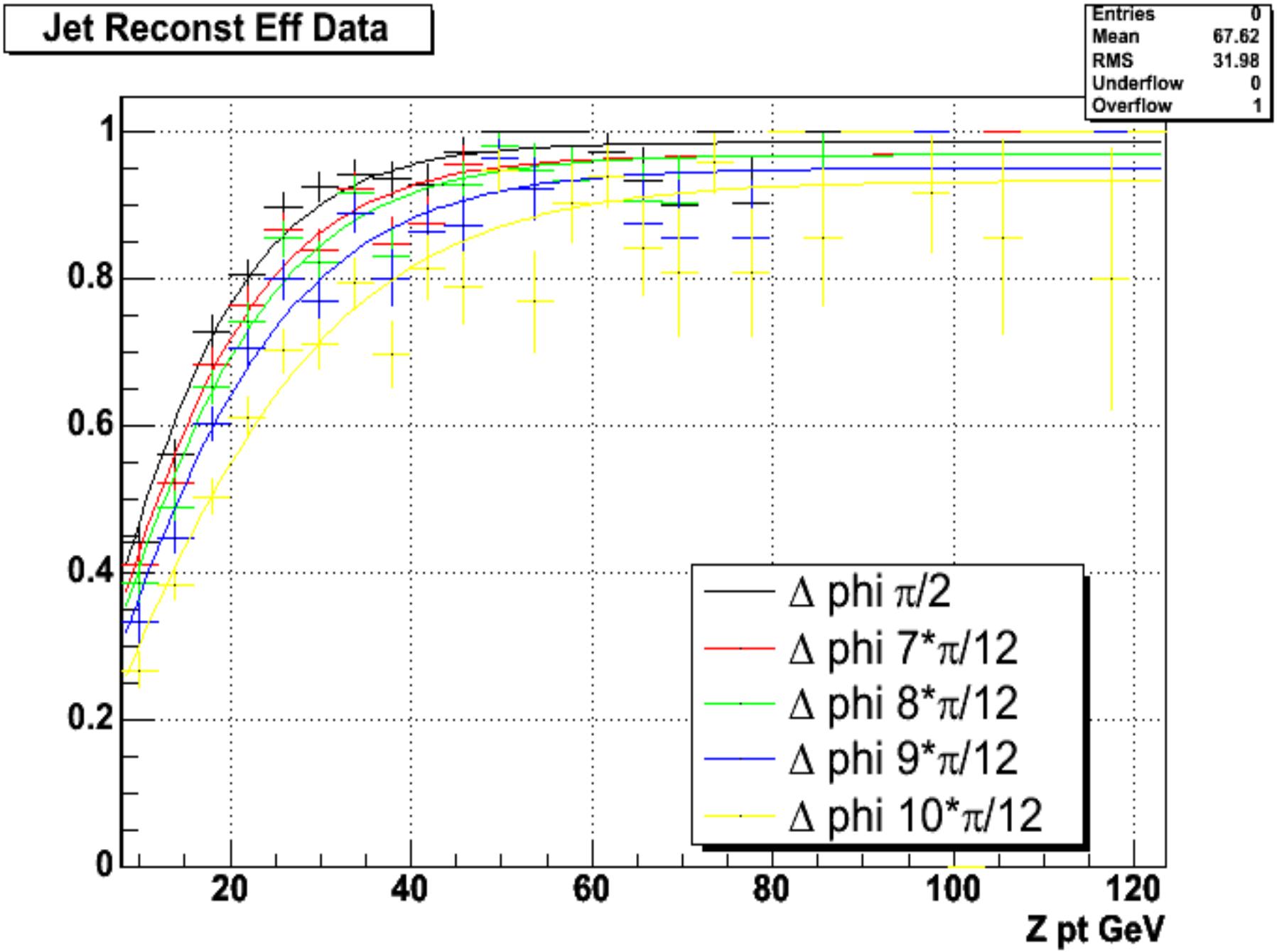
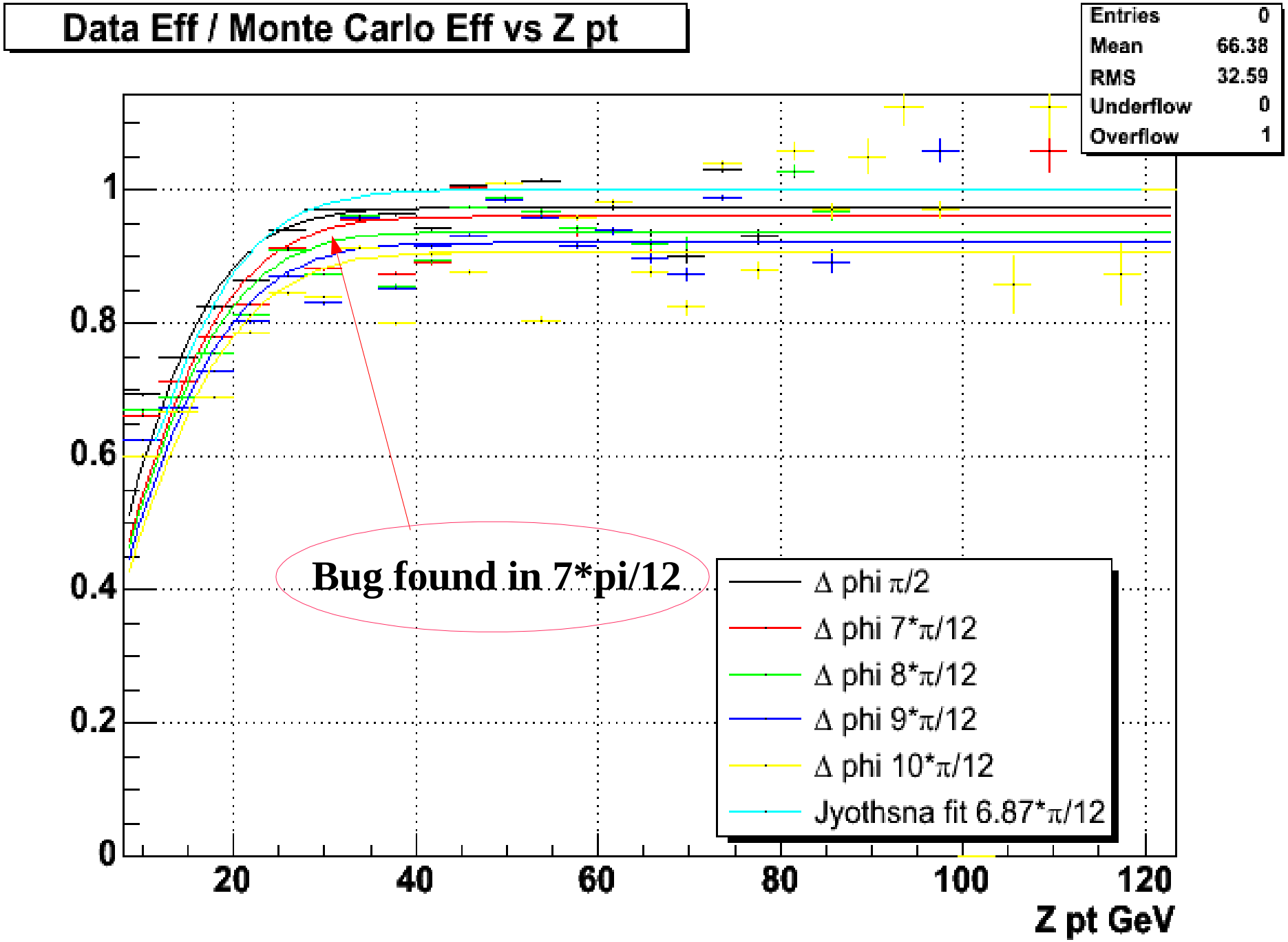
L2 Meeting
21JUL04

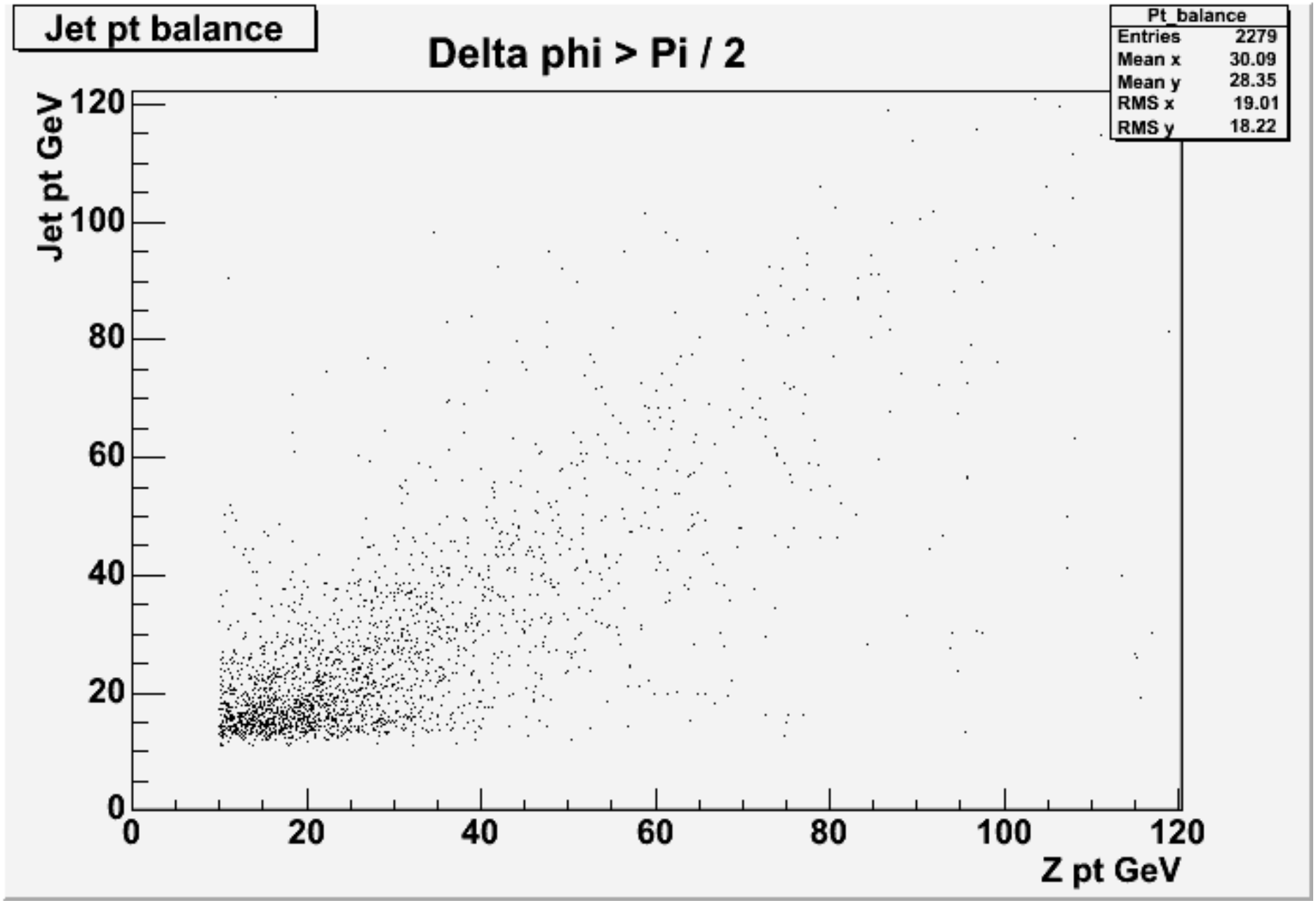

Jet Reconst Eff Data
Entries 0
Mean 67.3
RMS 32.57
Underflow 0
Overflow 1
Delta phi > 7Pi/12
Blue - Monte Carlo
Red - Data
1
0.8
0.6
0.4
0.2
0
20
40
60
80
100
120
Z pt GeV

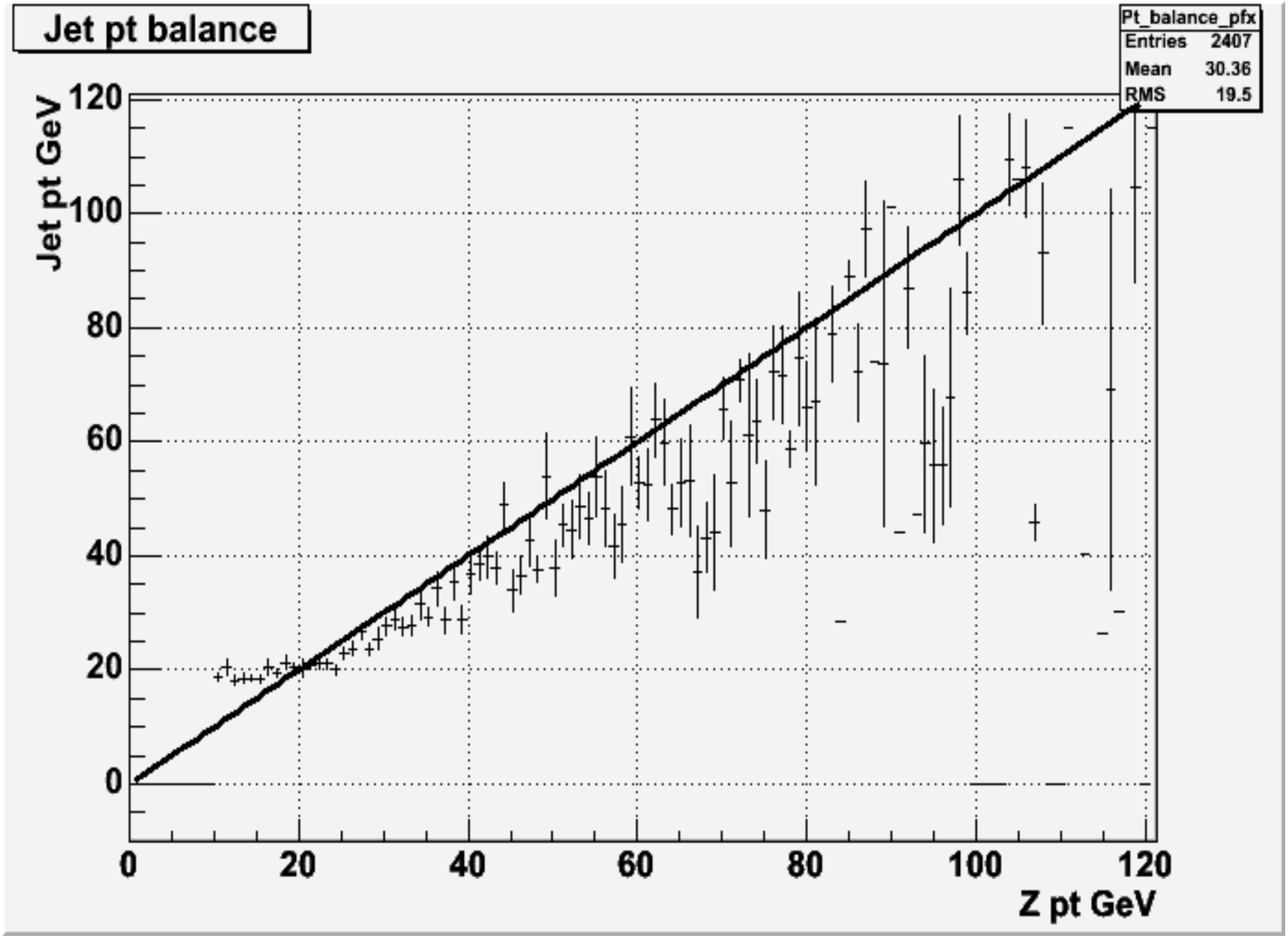
Monte Carlo


Jet Reconst Eff
Entries 0
Mean 90.86
RMS 48.14
Underflow 0
Overflow 1
1
0.8
0.6
0.4
0.2
0
20
40
60
80
100
120
Z pt GeV
Δ phi π/2
Δ phi 7*π/12
Δ phi 8*π/12
Δ phi 9*π/12
Δ phi 10*π/12


Jet Reconst Eff Data
Entries 0
Mean 67.62
RMS 31.98
Underflow 0
Overflow 1
1
0.8
0.6
0.4
0.2
0
20
40
60
80
100
120
Z pt GeV
Δ phi π/2
Δ phi 7*π/12
Δ phi 8*π/12
Δ phi 9*π/12
Δ phi 10*π/12


Data Eff / Monte Carlo Eff vs Z pt
Entries 0
Mean 66.38
RMS 32.59
Underflow 0
Overflow 1
Bug found in 7*pi/12
Δ phi π/2
Δ phi 7*π/12
Δ phi 8*π/12
Δ phi 9*π/12
Δ phi 10*π/12
Jyothsna fit 6.87*π/12
0
0.2
0.4
0.6
0.8
1
20
40
60
80
100
120
Z pt GeV


Jet pt balance
Delta phi > Pi / 2
Pt_balance
Entries 2279
Mean x 30.09
Mean y 28.35
RMS x 19.01
RMS y 18.22
Jet pt GeV
0
20
40
60
80
100
120
Z pt GeV


Jet pt balance
Pt_balance_pfx
Entries 2407
Mean 30.36
RMS 19.5
Jet pt GeV
Z pt GeV
0
20
40
60
80
100
120

Conclusion