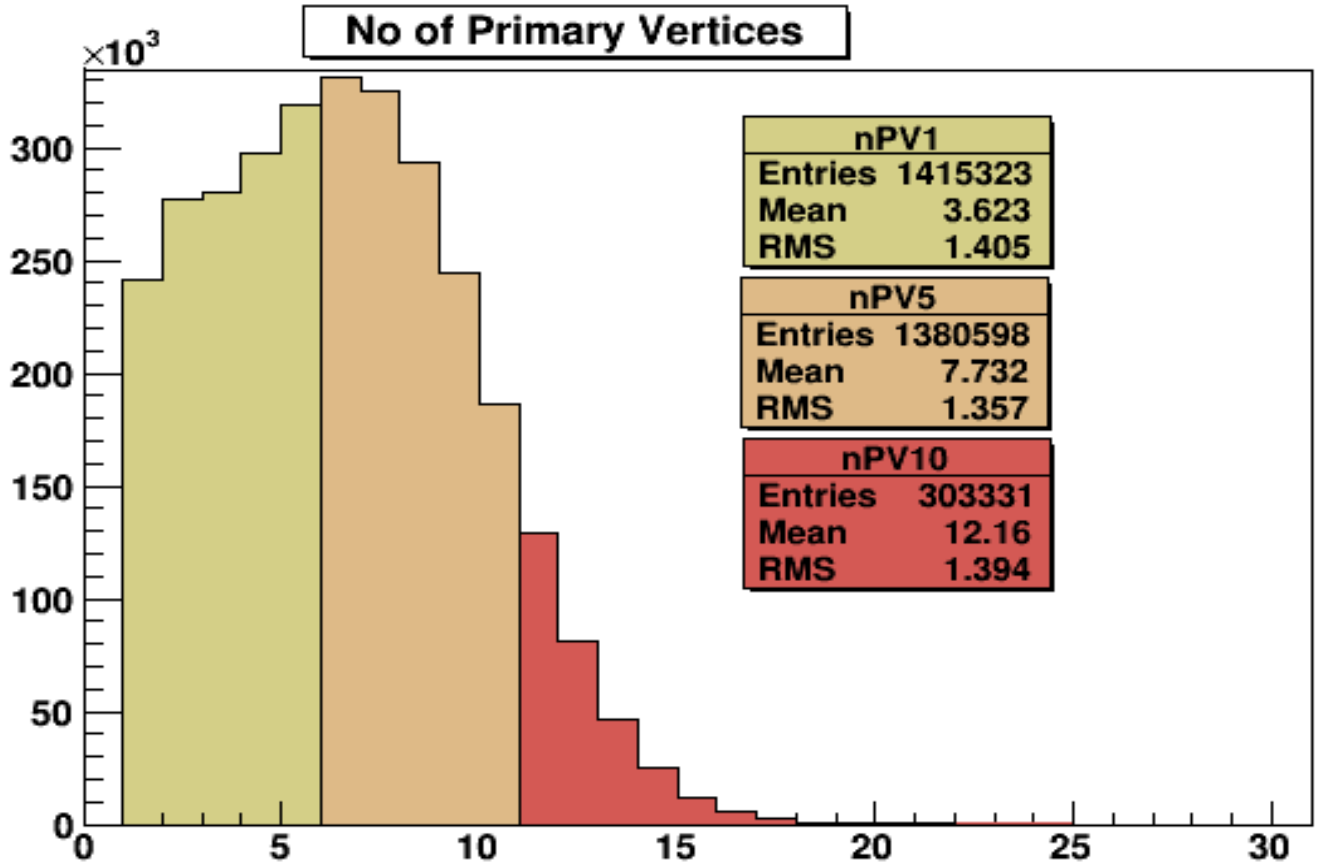
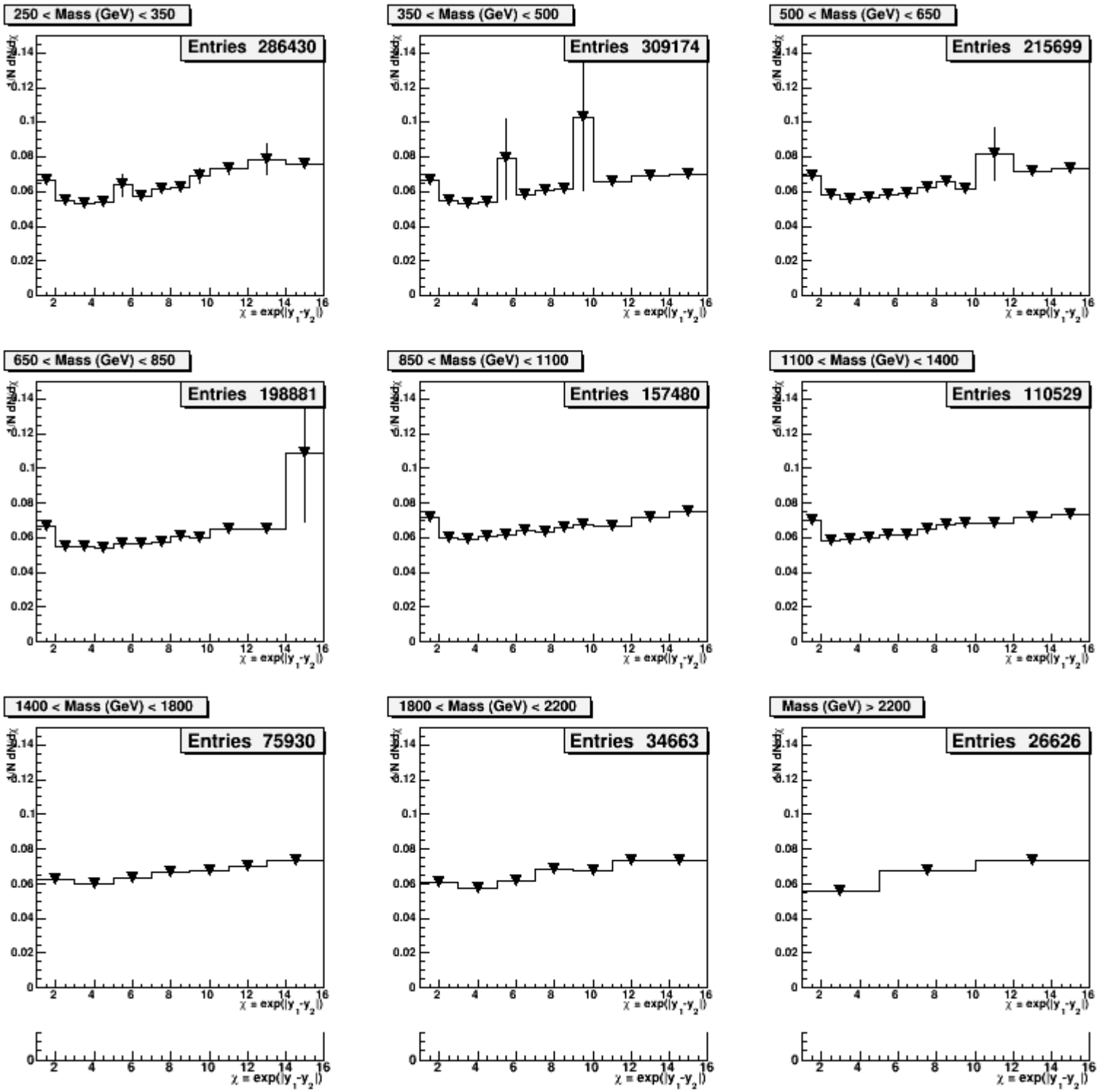
Pile Up : Chi



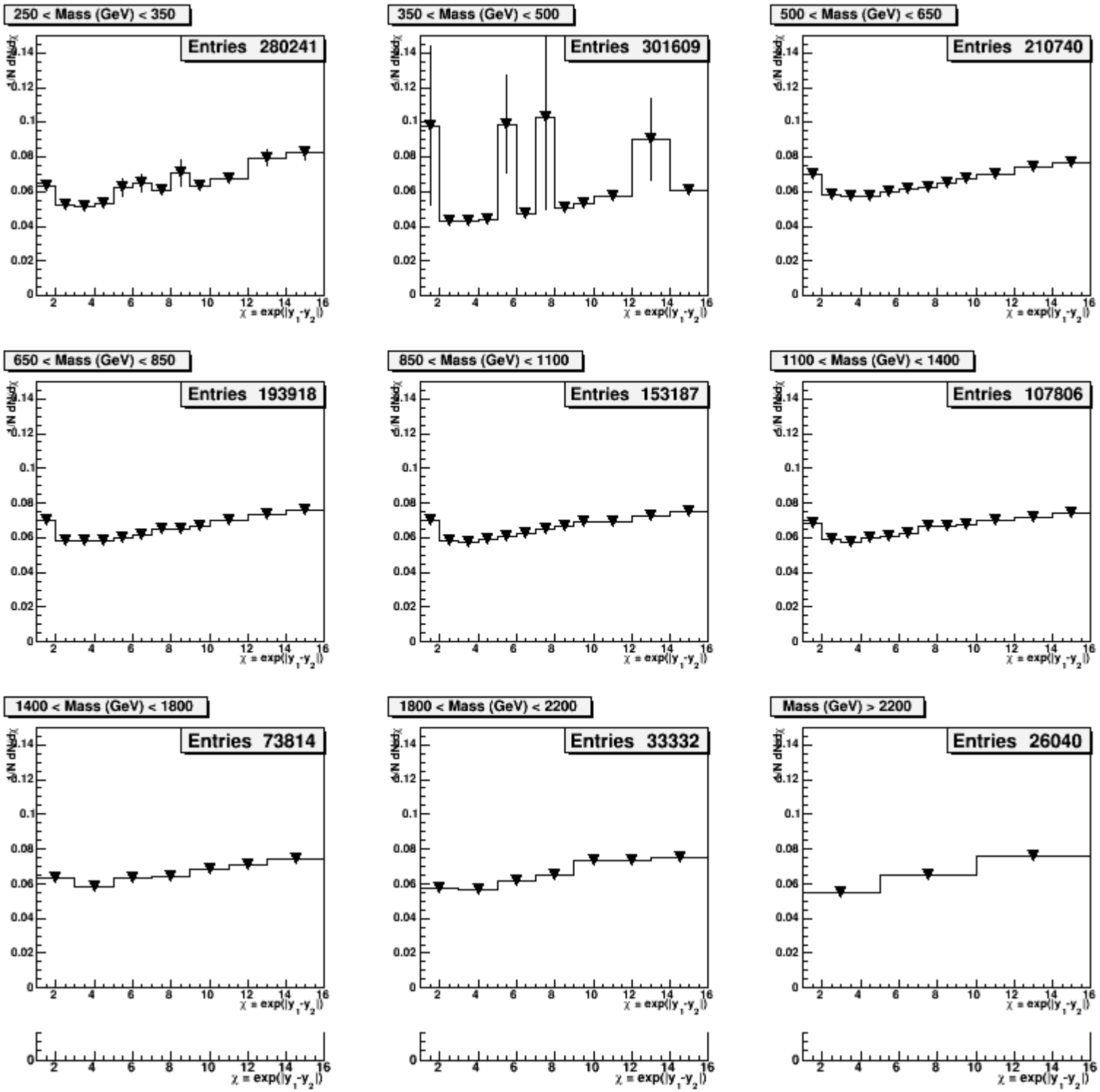
nPV1	0<PV<=5
nPV5	5<PV<=10
nPV10	PV>10

QCD Pile up sample:
/QCD_Pt_15to3000_TuneZ2_Flat_7TeV_pythia6/Spring11-E7TeV_FlatDist10_2011EarlyData_50ns_START311_V1G1-v1/GEN-SIM-RECODEBUG

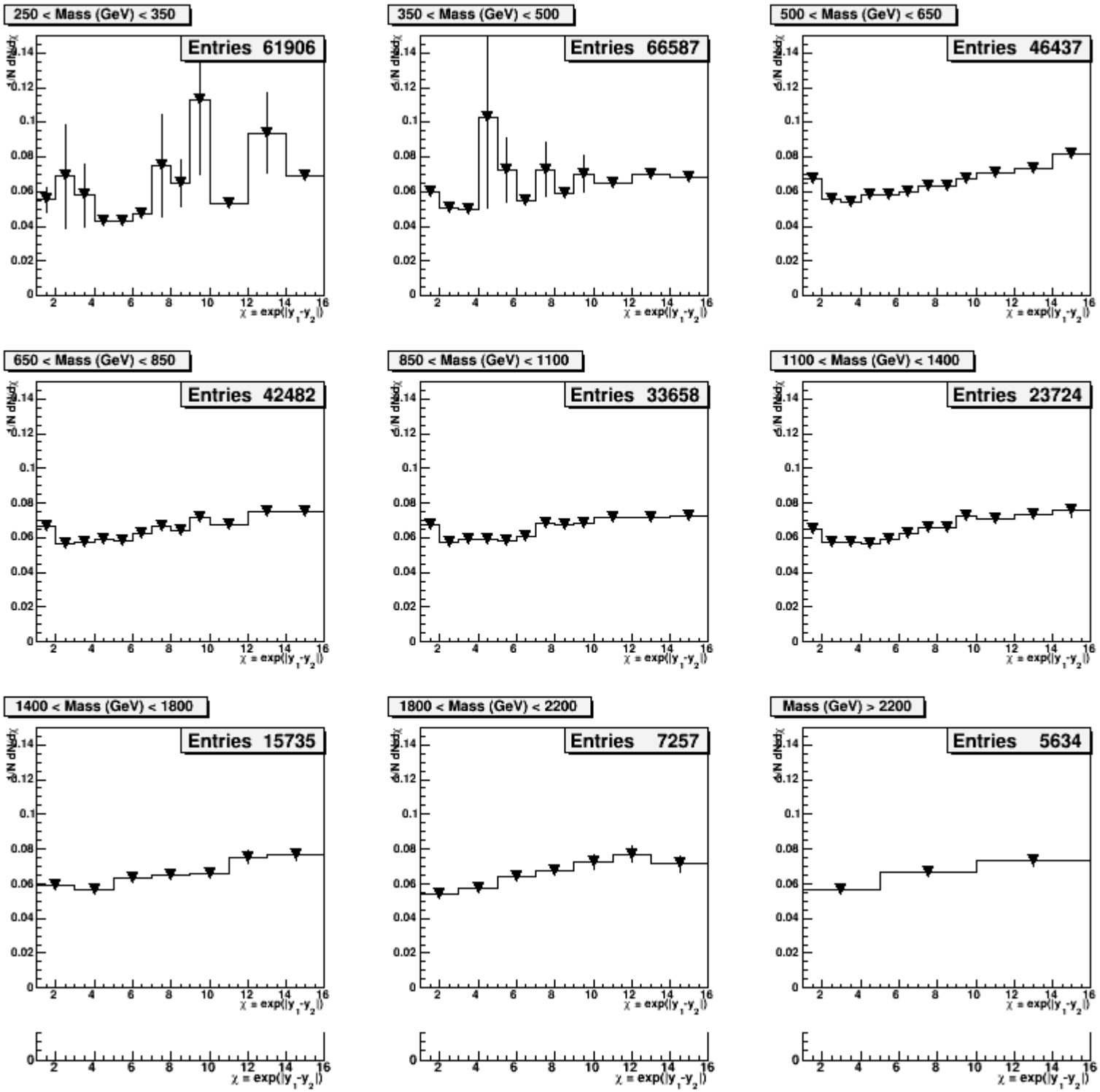
Run in 3_11_2
AK5 Calojets
With same event selection as in analysis


250 < Mass (GeV) < 350
Entries 286430
350 < Mass (GeV) < 500
Entries 309174
500 < Mass (GeV) < 650
Entries 215699
650 < Mass (GeV) < 850
Entries 198881
850 < Mass (GeV) < 1100
Entries 157480
1100 < Mass (GeV) < 1400
Entries 110529
1400 < Mass (GeV) < 1800
Entries 75930
1800 < Mass (GeV) < 2200
Entries 34663
Mass (GeV) > 2200
Entries 26626
χ = exp(|y1-y2|)

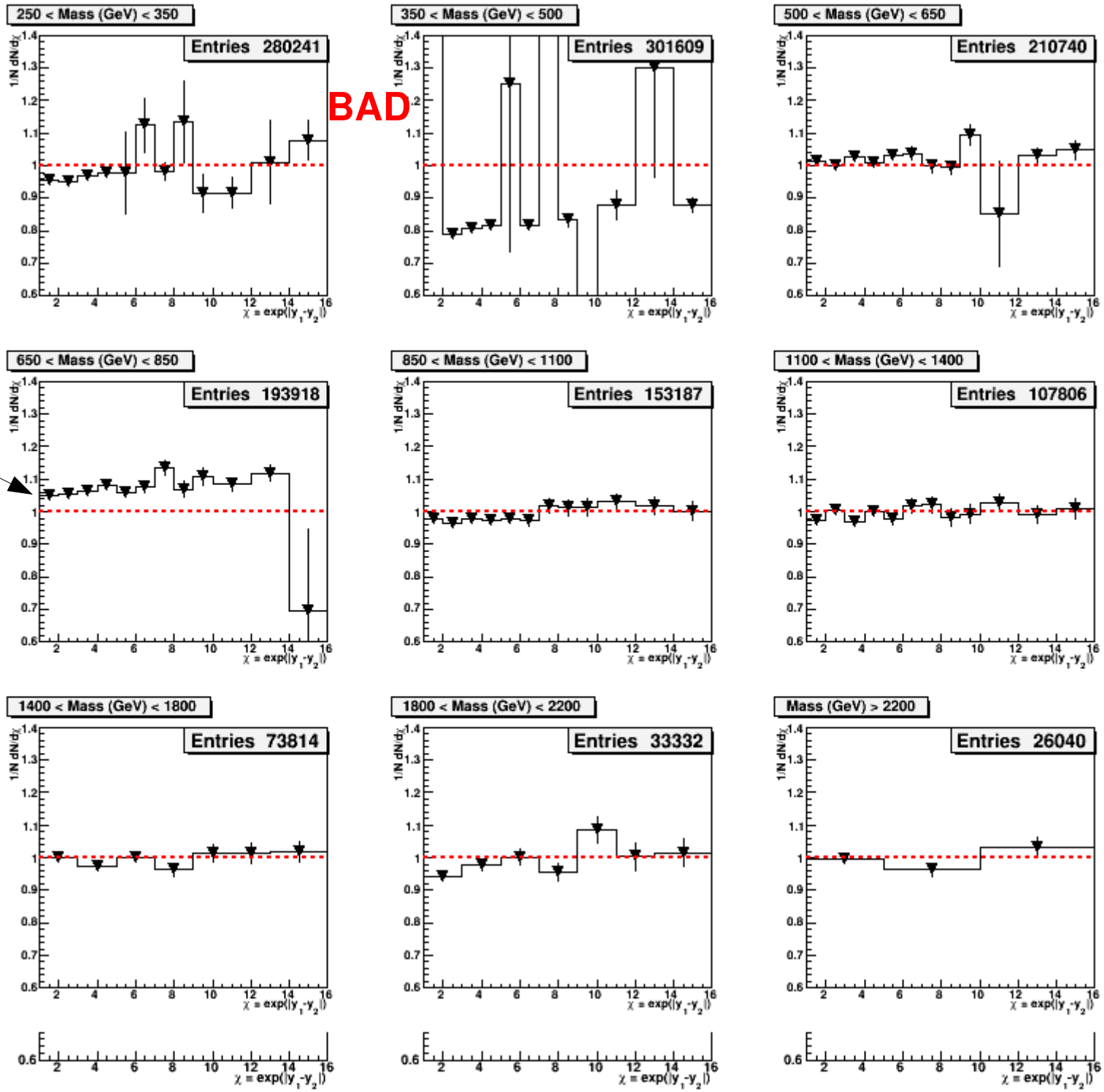
0<PV<=5


250 < Mass (GeV) < 350
Entries 280241
350 < Mass (GeV) < 500
Entries 301609
500 < Mass (GeV) < 650
Entries 210740
650 < Mass (GeV) < 850
Entries 193918
850 < Mass (GeV) < 1100
Entries 153187
1100 < Mass (GeV) < 1400
Entries 107806
1400 < Mass (GeV) < 1800
Entries 73814
1800 < Mass (GeV) < 2200
Entries 33332
Mass (GeV) > 2200
Entries 26040
χ = exp(|y1-y2|)

5<PV<=10


250 < Mass (GeV) < 350
Entries 61906
350 < Mass (GeV) < 500
Entries 66587
500 < Mass (GeV) < 650
Entries 46437
650 < Mass (GeV) < 850
Entries 42482
850 < Mass (GeV) < 1100
Entries 33658
1100 < Mass (GeV) < 1400
Entries 23724
1400 < Mass (GeV) < 1800
Entries 15735
1800 < Mass (GeV) < 2200
Entries 7257
Mass (GeV) > 2200
Entries 5634
χ = exp(|y1-y2|)

PV>10



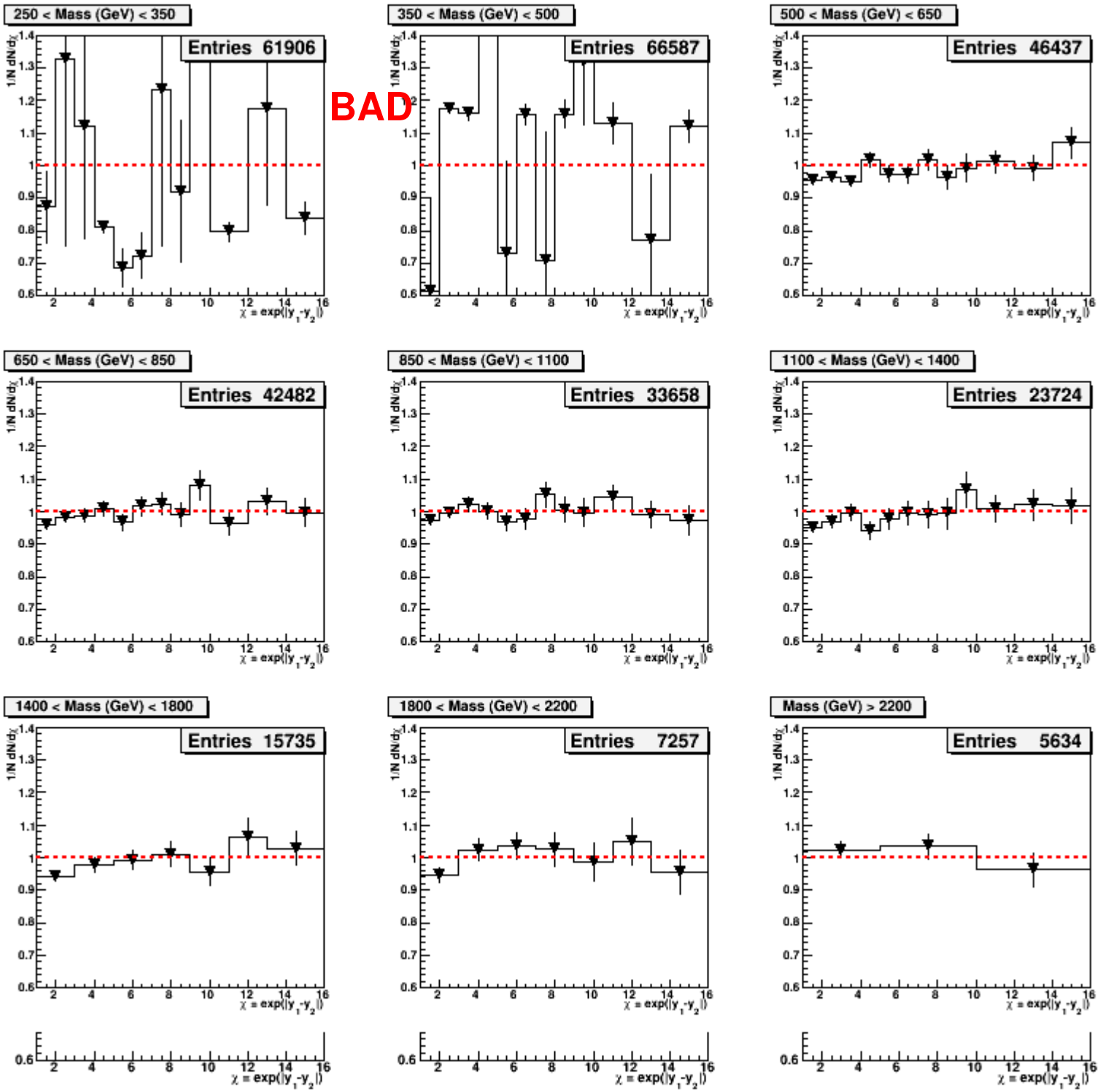
BAD

10%

5<PV<=10

0<PV<=5

Less than 5%

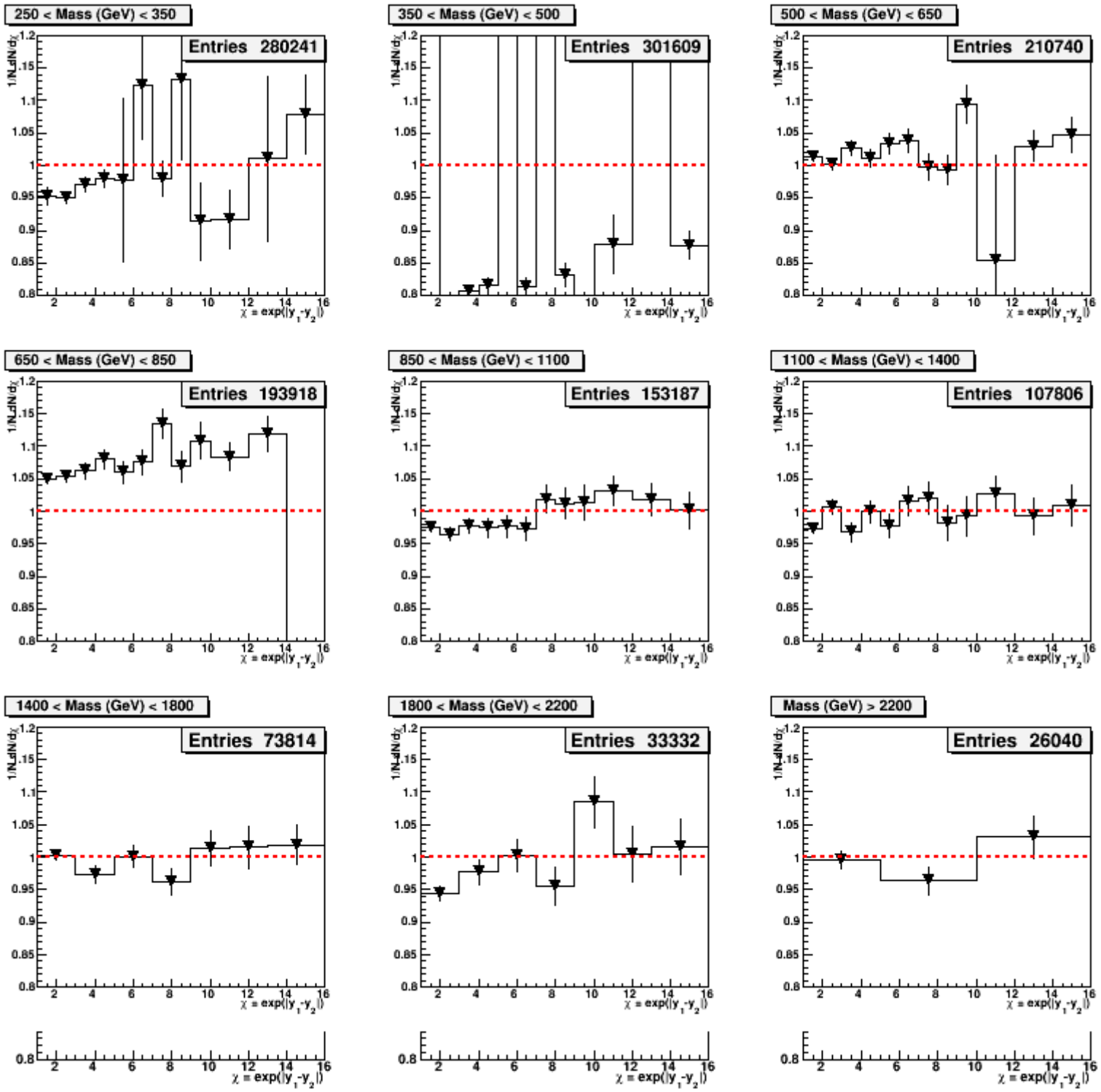


BAD

PV>10

5<PV<=10

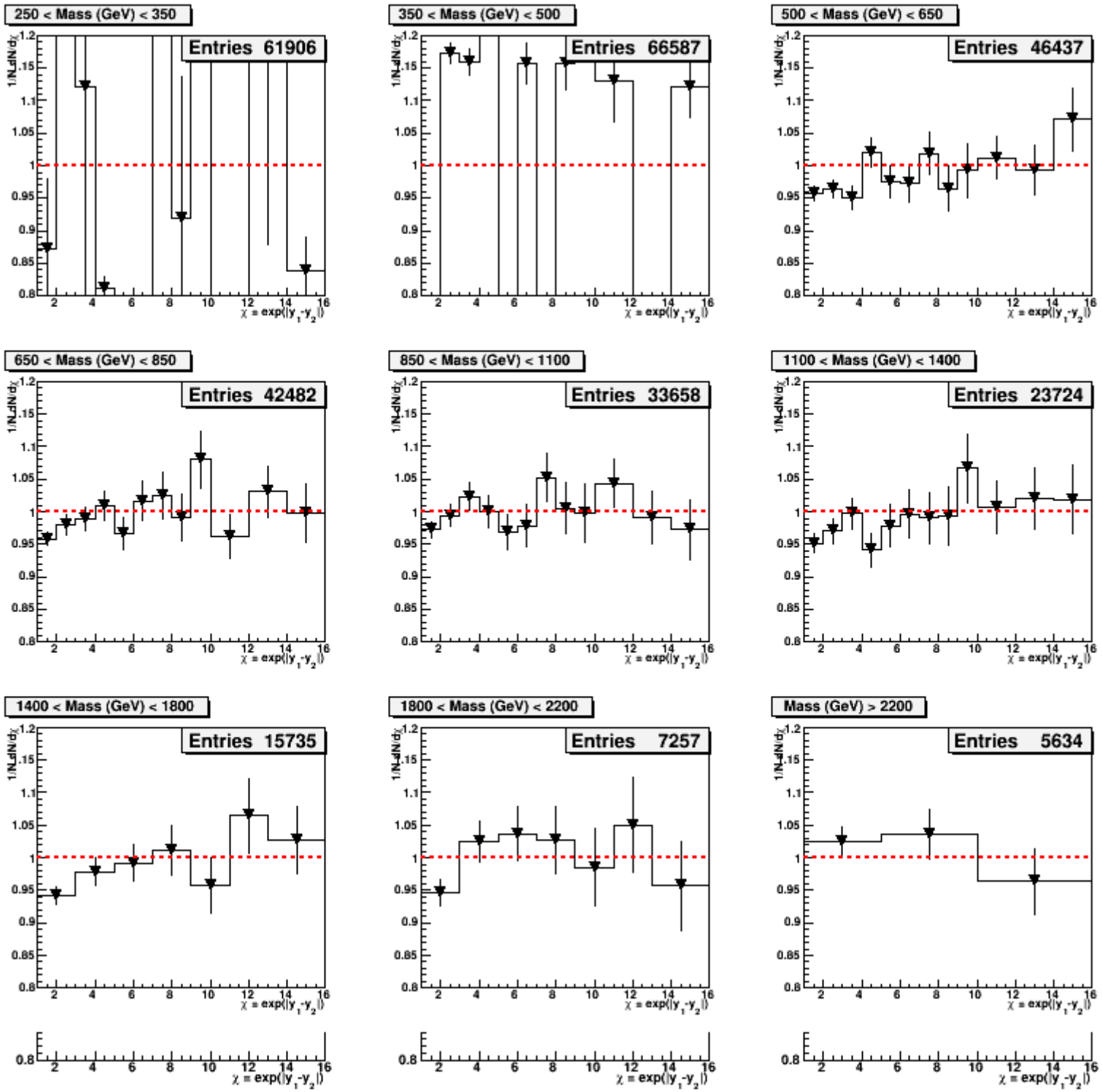
Less than 5%



5<PV<=10

0<PV<=5

(zoomed in)



PV>10

5<PV<=10

(zoomed in)