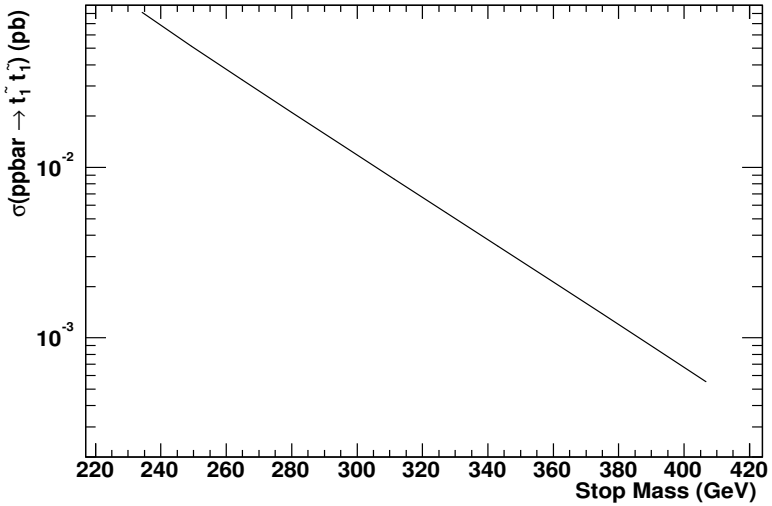
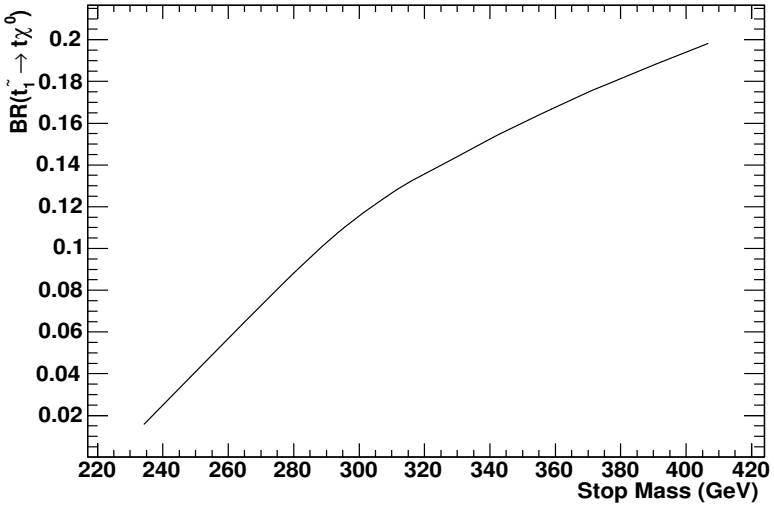
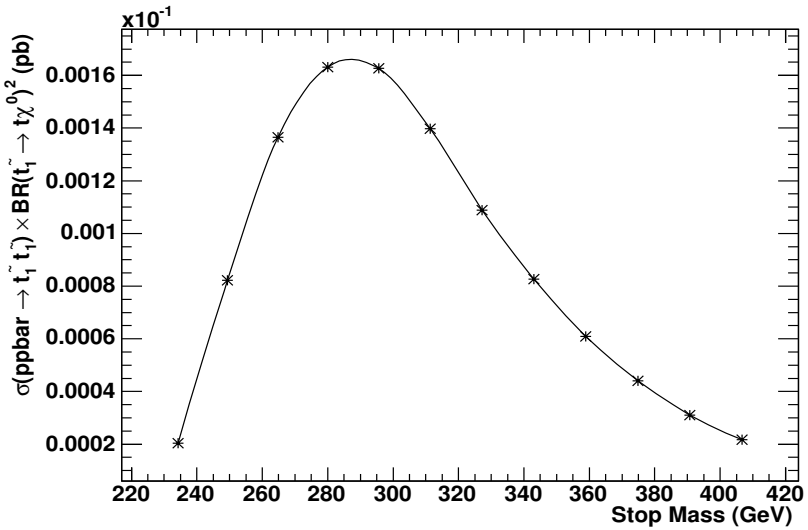
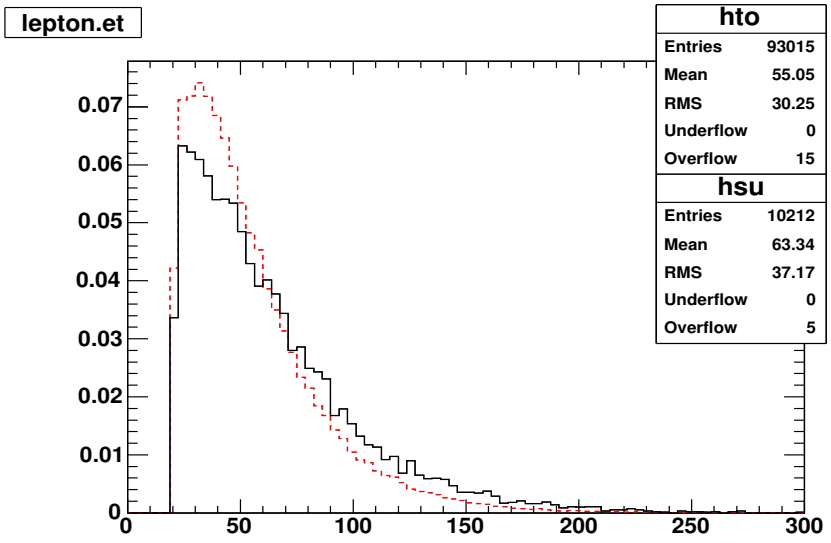
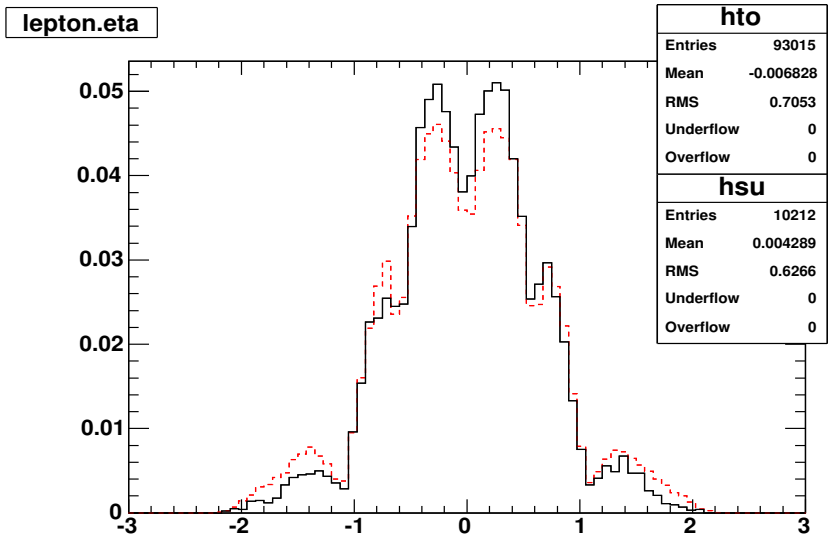


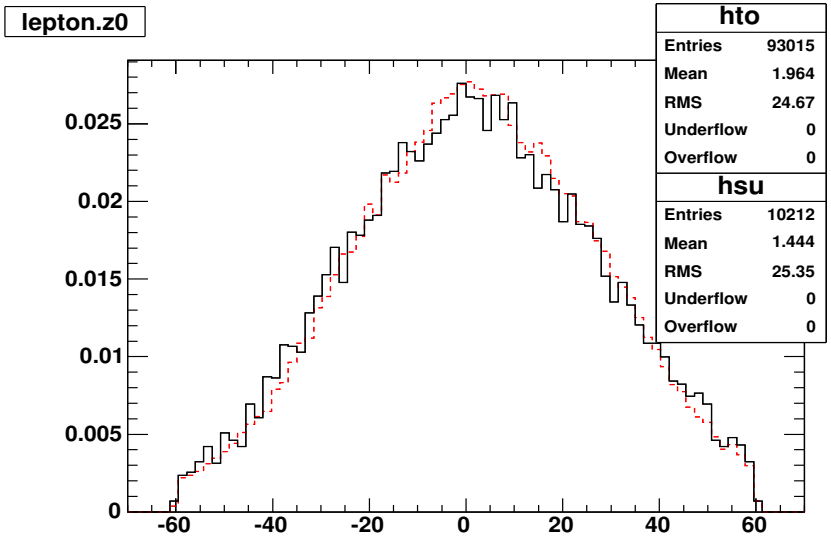


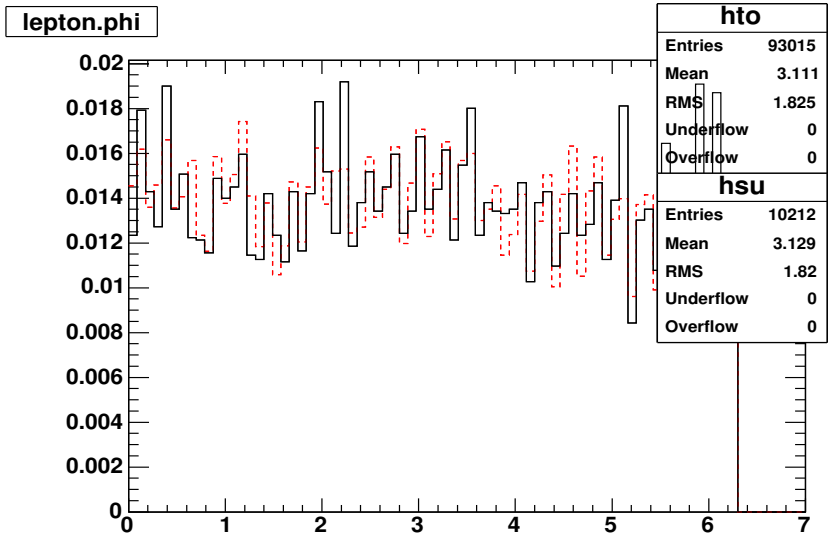
- mSUGRA: $m0 = 100$GeV, $A0 = -100$GeV, $tanB = 5$, $\mu > 0$ and m12 varies to give the different mstop masses.
- PDF: CTEQ5M1
- $\mu_F = \mu_R = (mstop_1 + mstop_2)/2$
  - Simulation (next slides) with m12=200 GeV ($M_{stop} = 310$ GeV, $M_{\chi^0} = 75$ GeV) 100k events, MCprod 5.3.3 (TopFind 6.1.4)

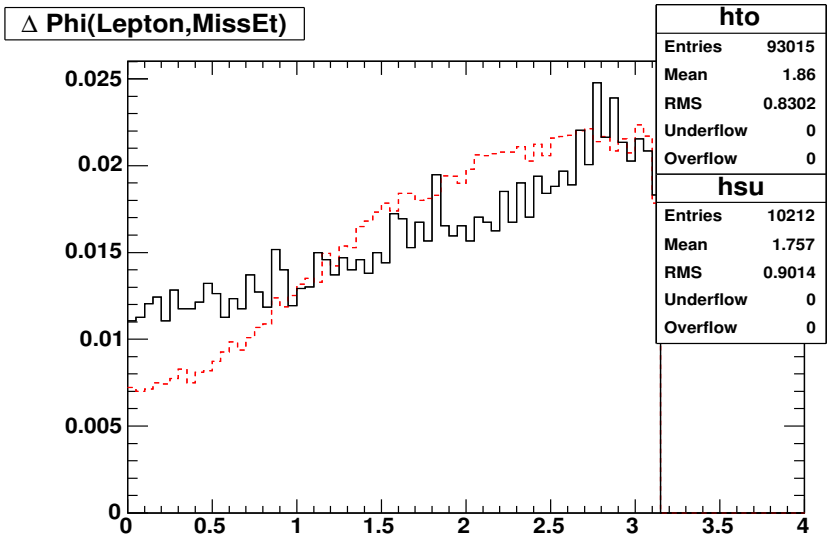


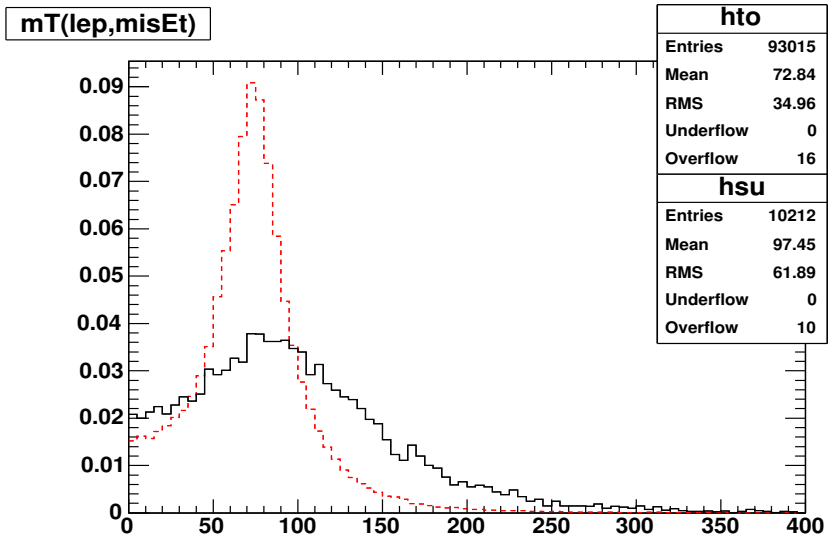

lepton.et
hto
Entries 93015
Mean 55.05
RMS 30.25
Underflow 0
Overflow 15
hsu
Entries 10212
Mean 63.34
RMS 37.17
Underflow 0
Overflow 5
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0 50 100 150 200 250 300

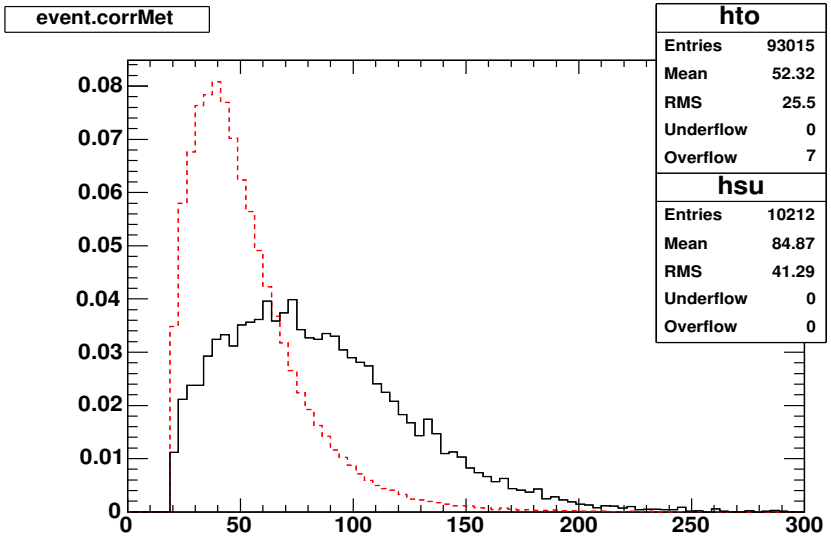

lepton.eta
hto
Entries 93015
Mean -0.006828
RMS 0.7053
Underflow 0
Overflow 0
hsu
Entries 10212
Mean 0.004289
RMS 0.6266
Underflow 0
Overflow 0
0.05
0.04
0.03
0.02
0.01
0
-3 -2 -1 0 1 2 3

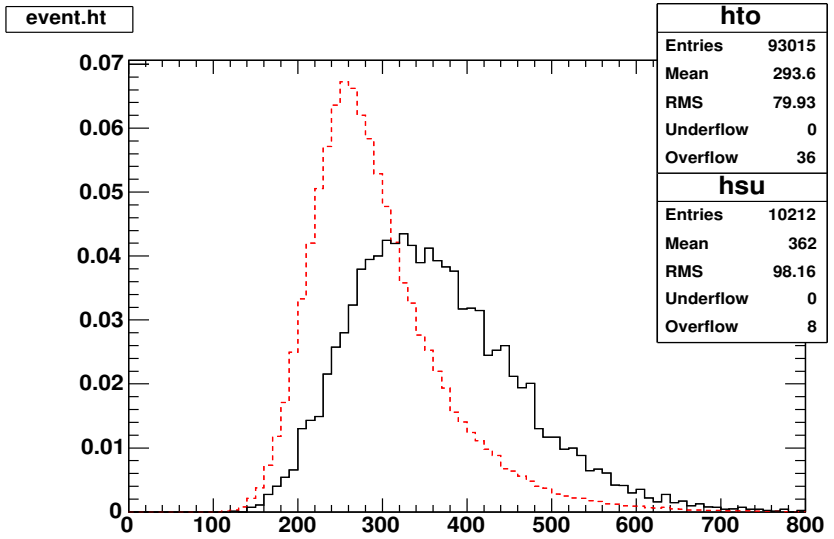

lepton.z0
hto
Entries 93015
Mean 1.964
RMS 24.67
Underflow 0
Overflow 0
hsu
Entries 10212
Mean 1.444
RMS 25.35
Underflow 0
Overflow 0
0.025
0.02
0.015
0.01
0.005
0
-60 -40 -20 0 20 40 60

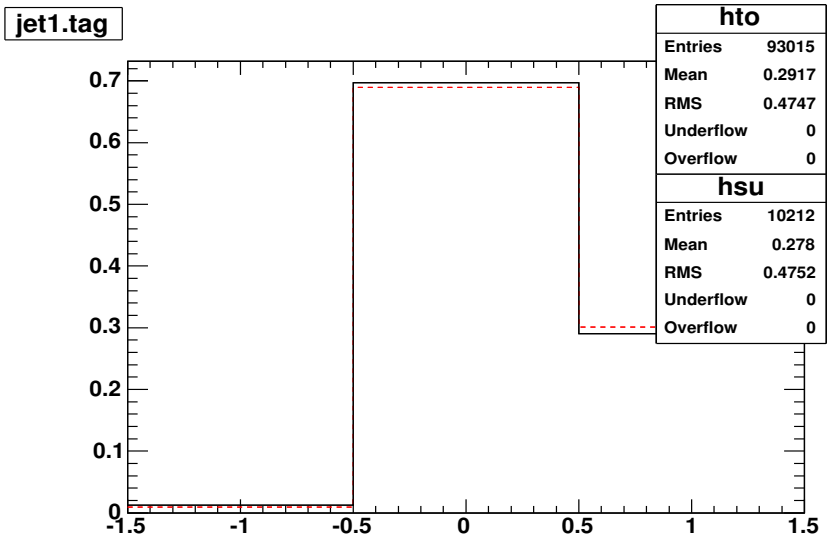

lepton.phi
hto
Entries 93015
Mean 3.111
RMS 1.825
Underflow 0
Overflow 0
hsu
Entries 10212
Mean 3.129
RMS 1.82
Underflow 0
Overflow 0
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
0 1 2 3 4 5 6 7

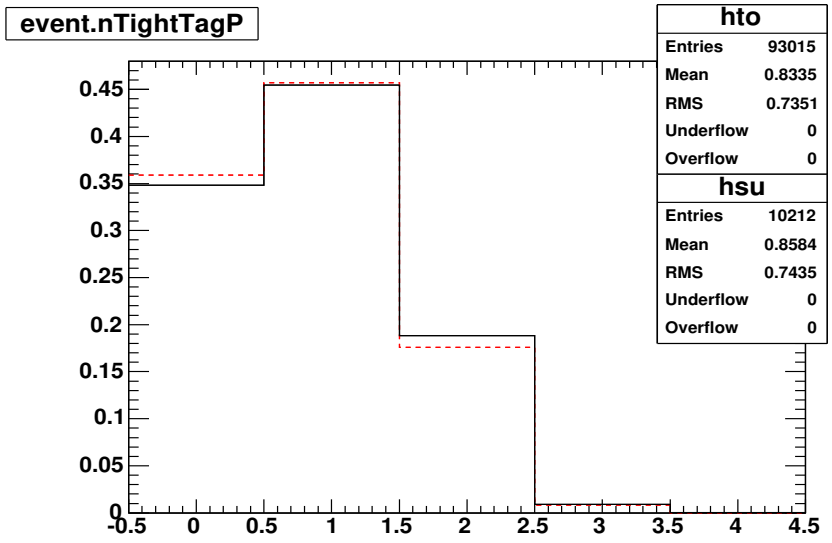

Δ Phi(Lepton,MissEt)
hto
Entries 93015
Mean 1.86
RMS 0.8302
Underflow 0
Overflow 0
hsu
Entries 10212
Mean 1.757
RMS 0.9014
Underflow 0
Overflow 0

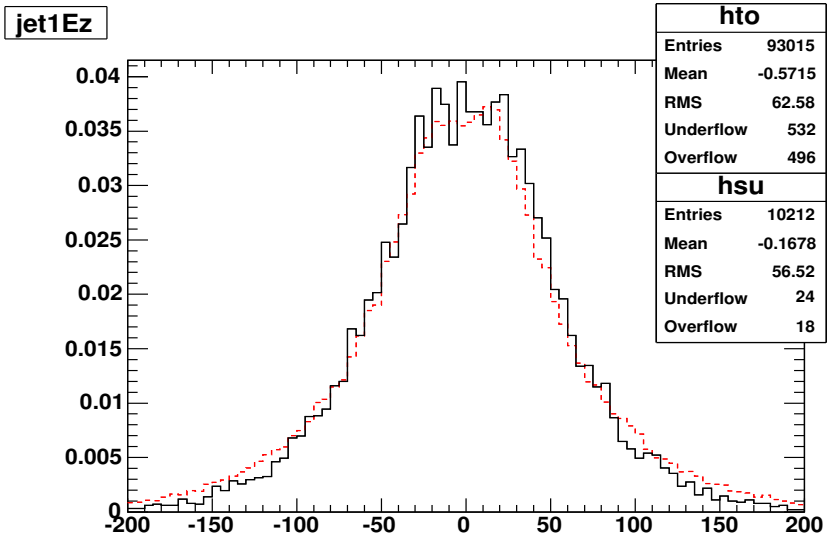

mT(lep,misEt)
hto
Entries 93015
Mean 72.84
RMS 34.96
Underflow 0
Overflow 16
hsu
Entries 10212
Mean 97.45
RMS 61.89
Underflow 0
Overflow 10

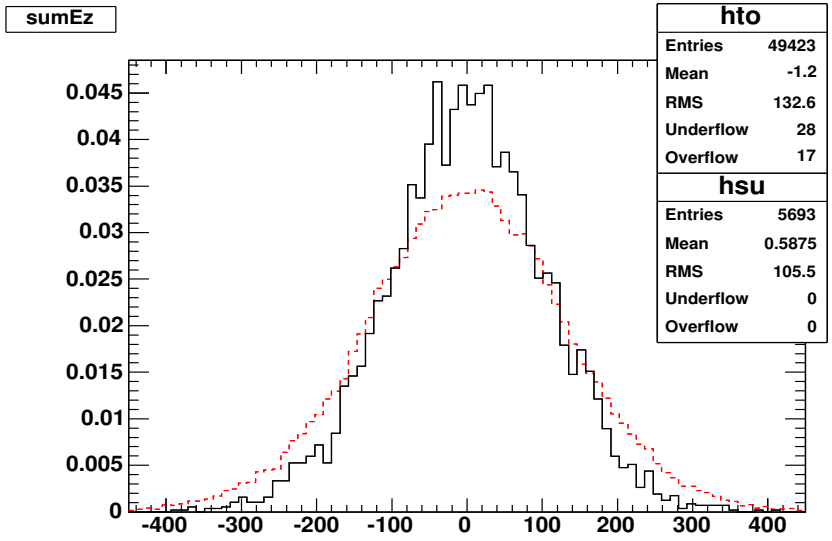

event.corrMet
hto
Entries 93015
Mean 52.32
RMS 25.5
Underflow 0
Overflow 7
hsu
Entries 10212
Mean 84.87
RMS 41.29
Underflow 0
Overflow 0


event.ht
hto
Entries 93015
Mean 293.6
RMS 79.93
Underflow 0
Overflow 36
hsu
Entries 10212
Mean 362
RMS 98.16
Underflow 0
Overflow 8


jet1.tag
hto
Entries 93015
Mean 0.2917
RMS 0.4747
Underflow 0
Overflow 0
hsu
Entries 10212
Mean 0.278
RMS 0.4752
Underflow 0
Overflow 0


event.nTightTagP
hto
Entries 93015
Mean 0.8335
RMS 0.7351
Underflow 0
Overflow 0
hsu
Entries 10212
Mean 0.8584
RMS 0.7435
Underflow 0
Overflow 0


jet1Ez
hto
Entries 93015
Mean -0.5715
RMS 62.58
Underflow 532
Overflow 496
hsu
Entries 10212
Mean -0.1678
RMS 56.52
Underflow 24
Overflow 18


sumEz
hto
Entries 49423
Mean -1.2
RMS 132.6
Underflow 28
Overflow 17
hsu
Entries 5693
Mean 0.5875
RMS 105.5
Underflow 0
Overflow 0