Analysis information

1. CMSSW_3_3_5
2. 7 TeV MC data

   /Zmumu/Summer09-MC_31X_V3_7TeV-v1/GEN-SIM-RECO [2M,1300pb]
   /Ztautau/Summer09-MC_31X_V3_7TeV-v1/GEN-SIM-RECO [2.2M,1300pb]

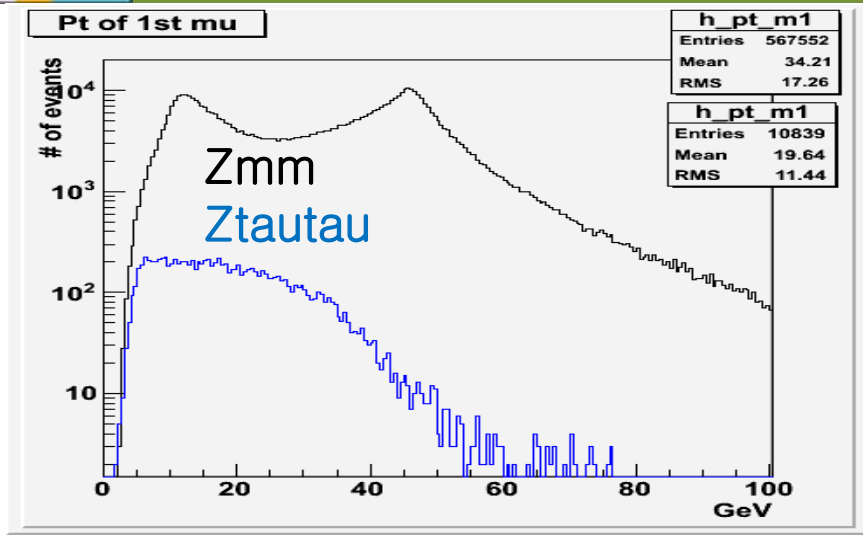
3. Basic cut

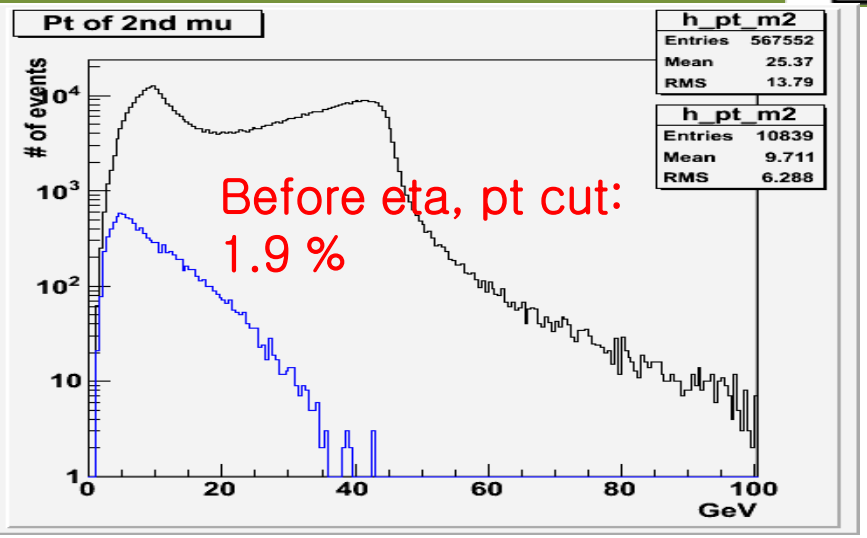
- Bit (40 or 41)
- Primary Vertex >0 (not Fake && ndof>4)

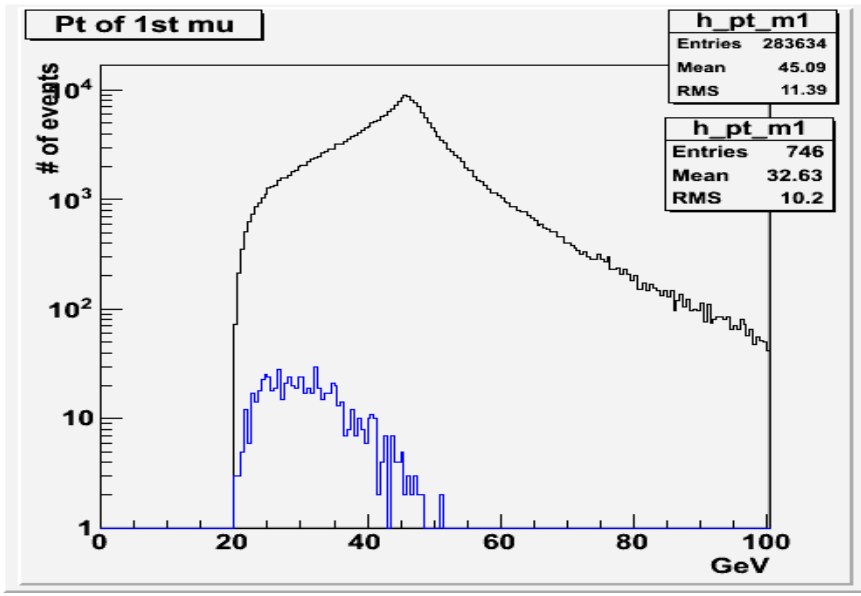
4. Muon cut

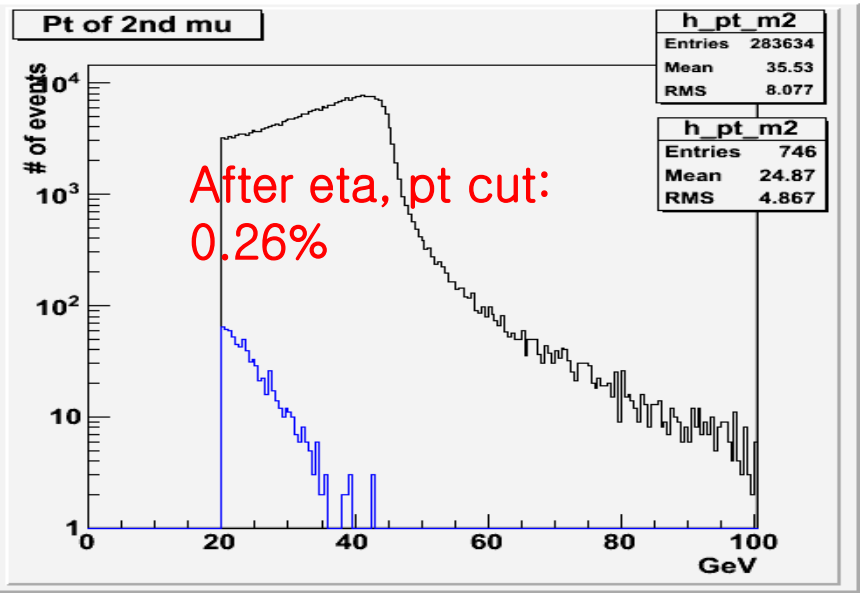
- Global Muon , |eta|<2.1, pt>20 GeV
- MuonID: GlobalMuonPromptTight,
- #hit>11, chi2<20, |d0|<1cm, |dz|<20cm, no jet near dR=0.3

Pt of muon

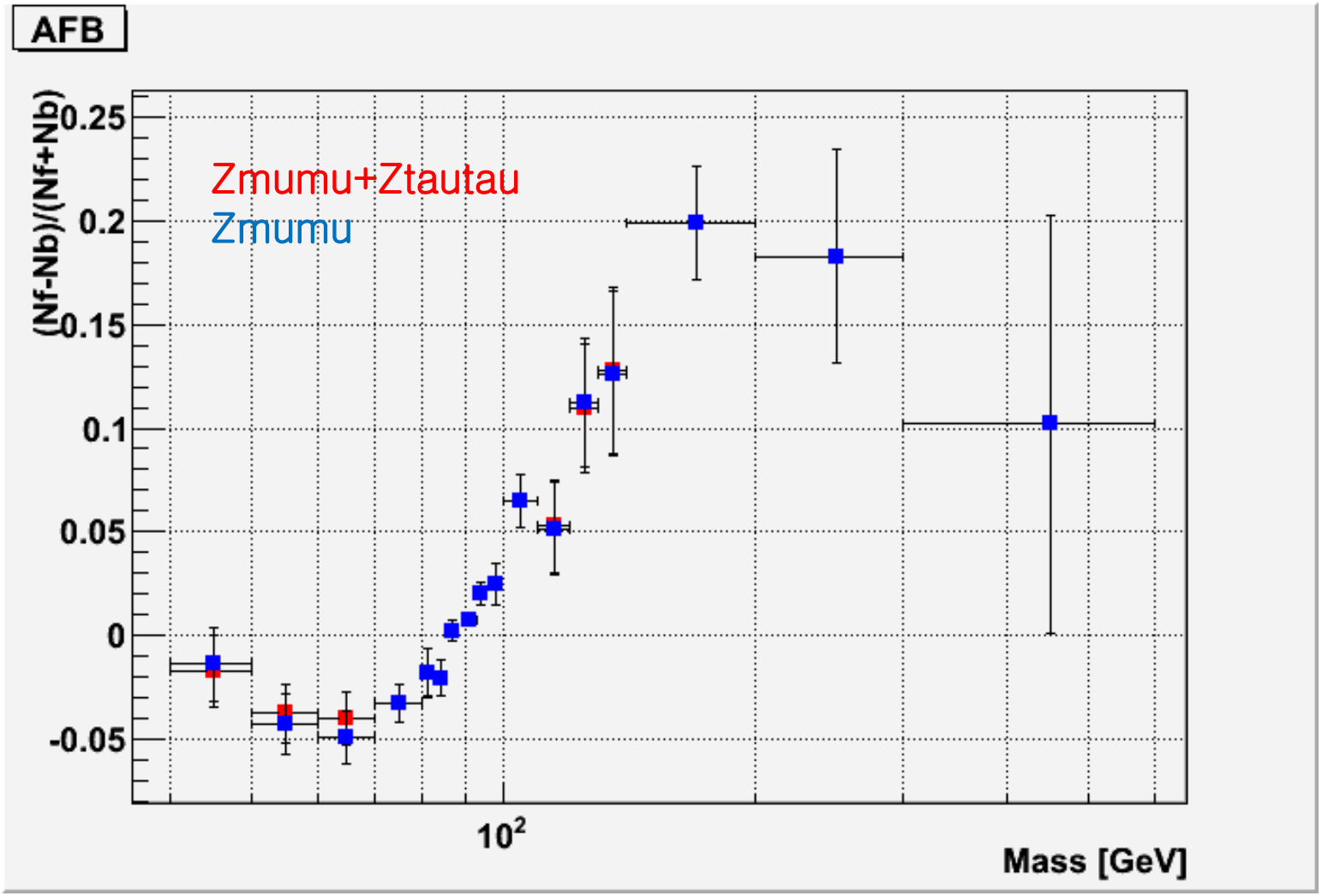

Pt of 1st mu
h_pt_m1
Entries 567552
Mean 34.21
RMS 17.26
h_pt_m1
Entries 10839
Mean 19.64
RMS 11.44
Zmm
Ztautau
# of events
GeV


Pt of 2nd mu
h_pt_m2
Entries 567552
Mean 25.37
RMS 13.79
h_pt_m2
Entries 10839
Mean 9.711
RMS 6.288
Before eta, pt cut:
1.9 %
# of events
GeV


Pt of 1st mu
h_pt_m1
Entries 283634
Mean 45.09
RMS 11.39
h_pt_m1
Entries 746
Mean 32.63
RMS 10.2
# of events
GeV


Pt of 2nd mu
h_pt_m2
Entries 283634
Mean 35.53
RMS 8.077
h_pt_m2
Entries 746
Mean 24.87
RMS 4.867
After eta, pt cut:
0.26%
# of events
GeV

Asymmetry


AFB
(Nf-Nb)/(Nf+Nb)
0.25
0.2
0.15
0.1
0.05
0
-0.05
Zmumu+Ztautau
Zmumu
10^2
Mass [GeV]