ZH->e e + b b

James Heinmiller

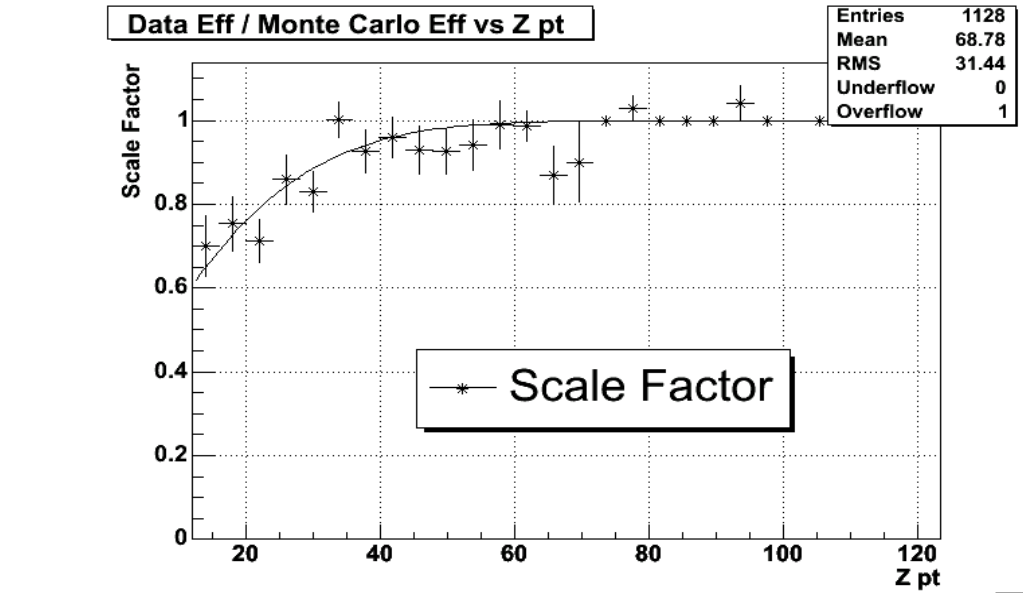
6JAN05

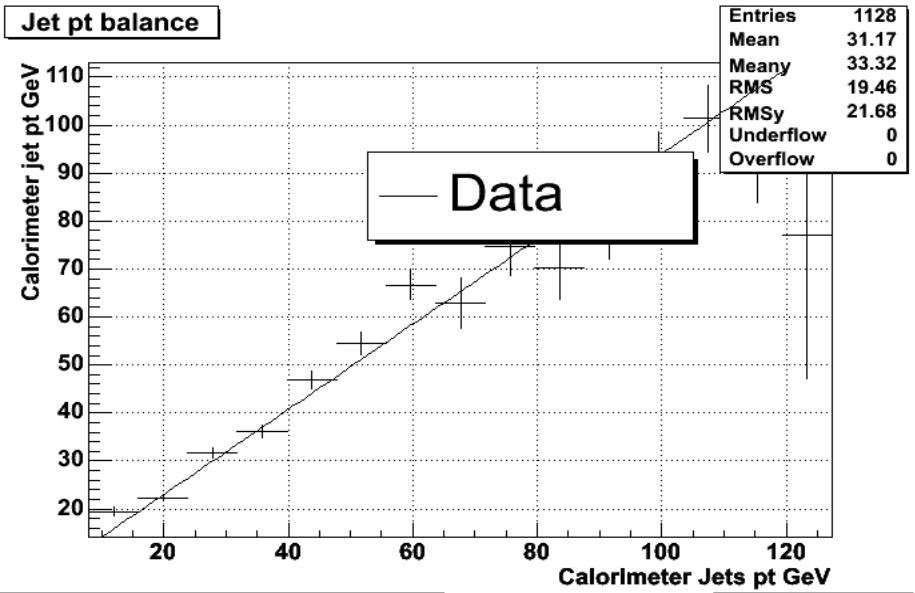
Multi-Lepton Higgs Meeting

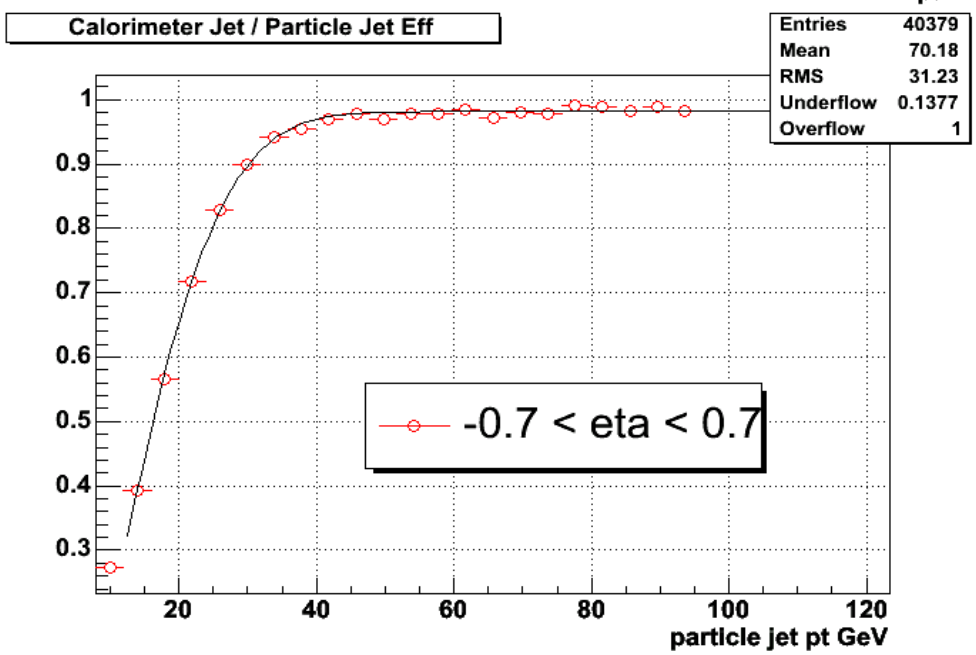
Jet Reconstruction Efficiencies

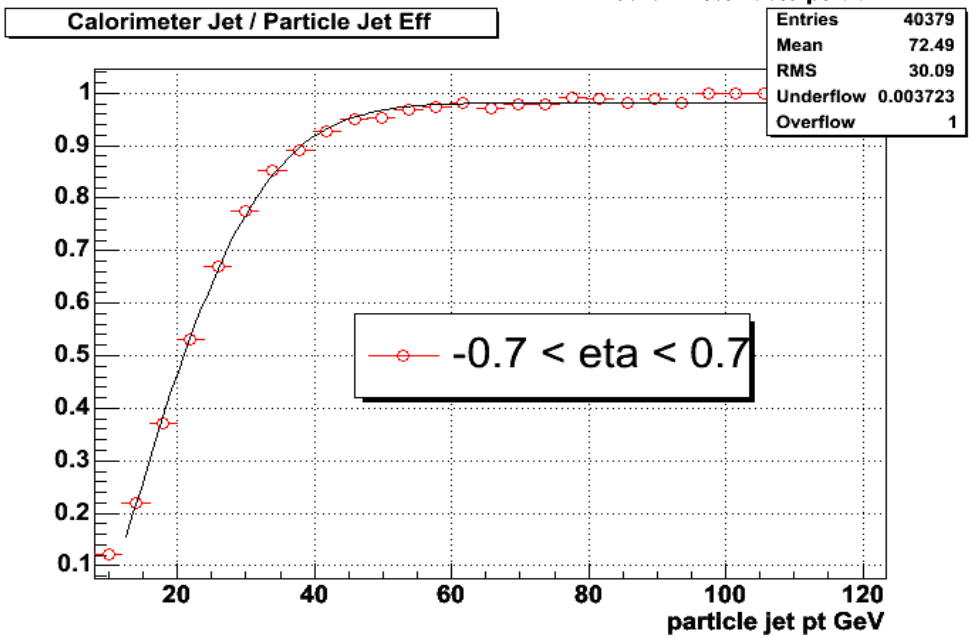
Scale Factor as function Z pt
Parameterization of Z pt to Cal Jet pt
MC Straight Eff – smeared particle jets, smeared cal jets
Data Straight Eff – smeared particle jets

Jet Reco Distributions



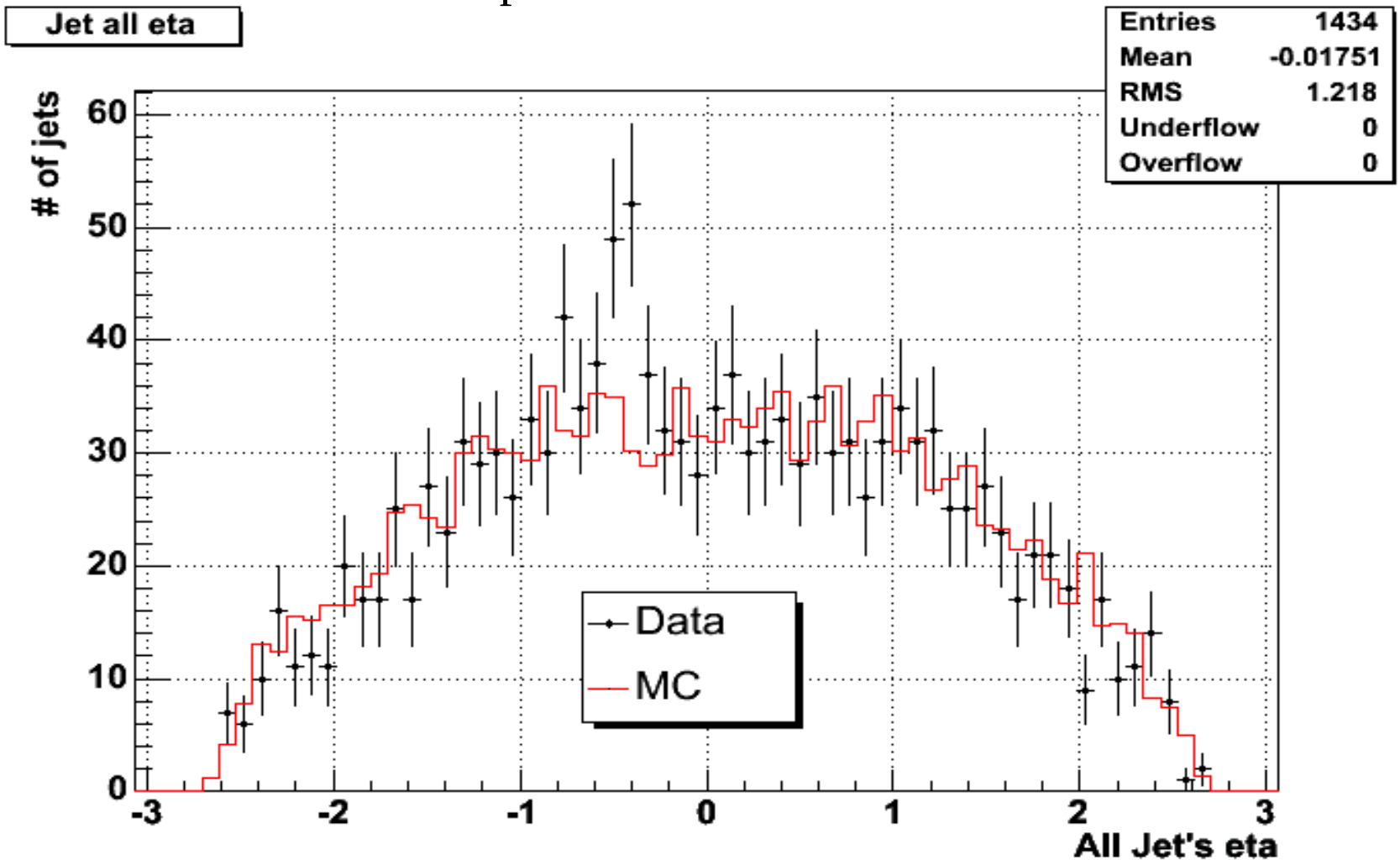




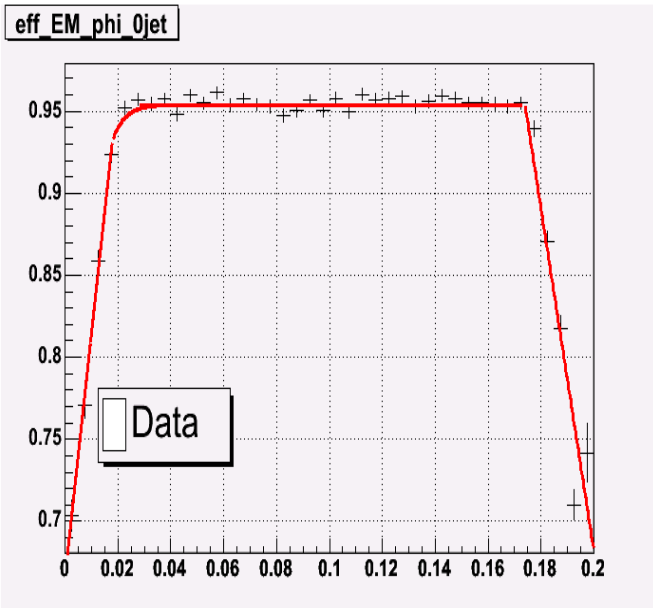


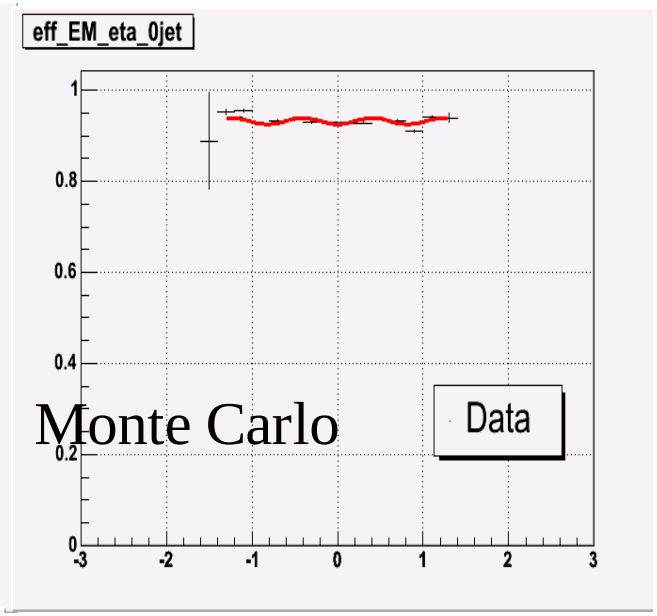
Jet Eta Distribution Data & MC

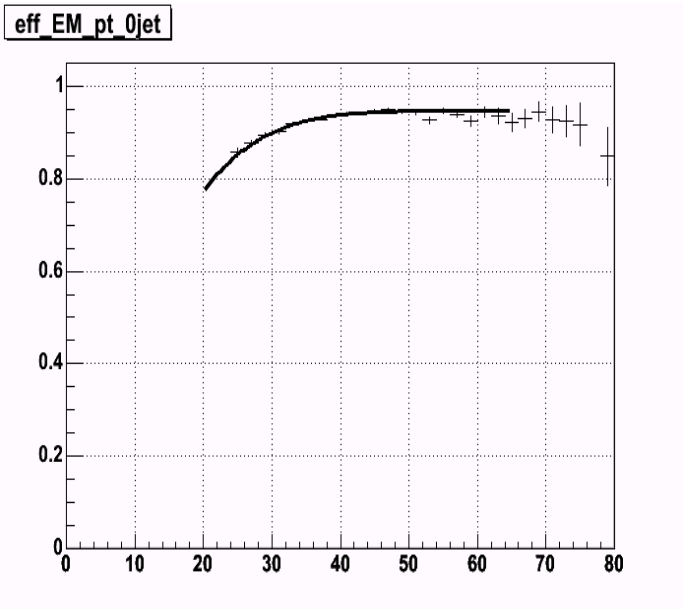
Jet pt > 15.0 GeV

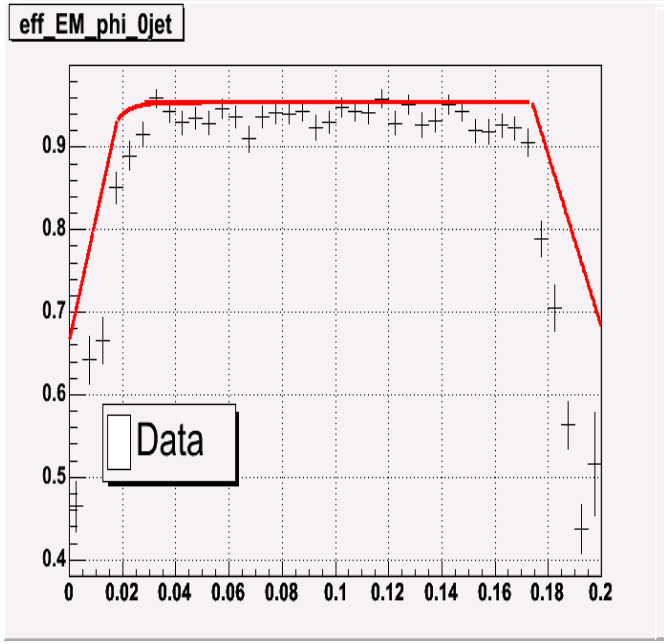


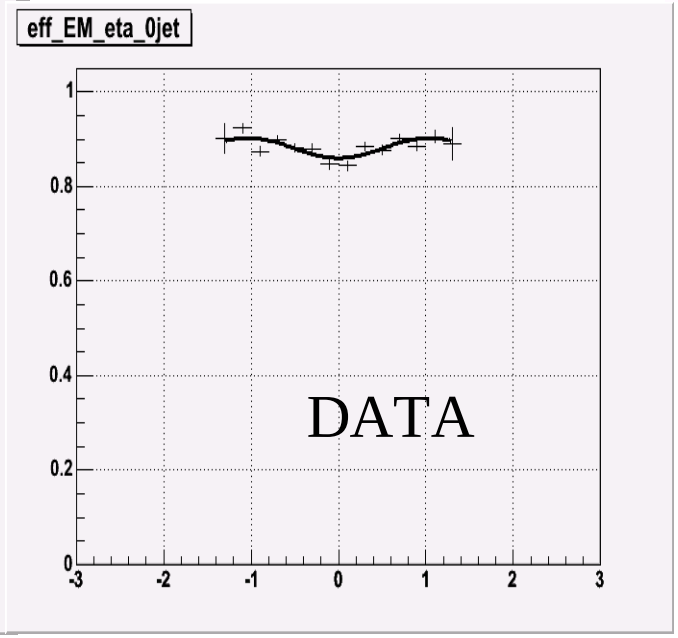
Electron Efficiencies

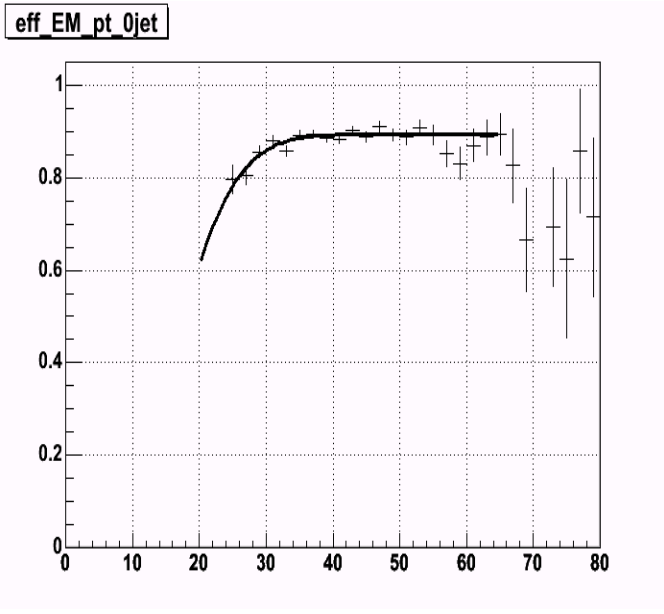




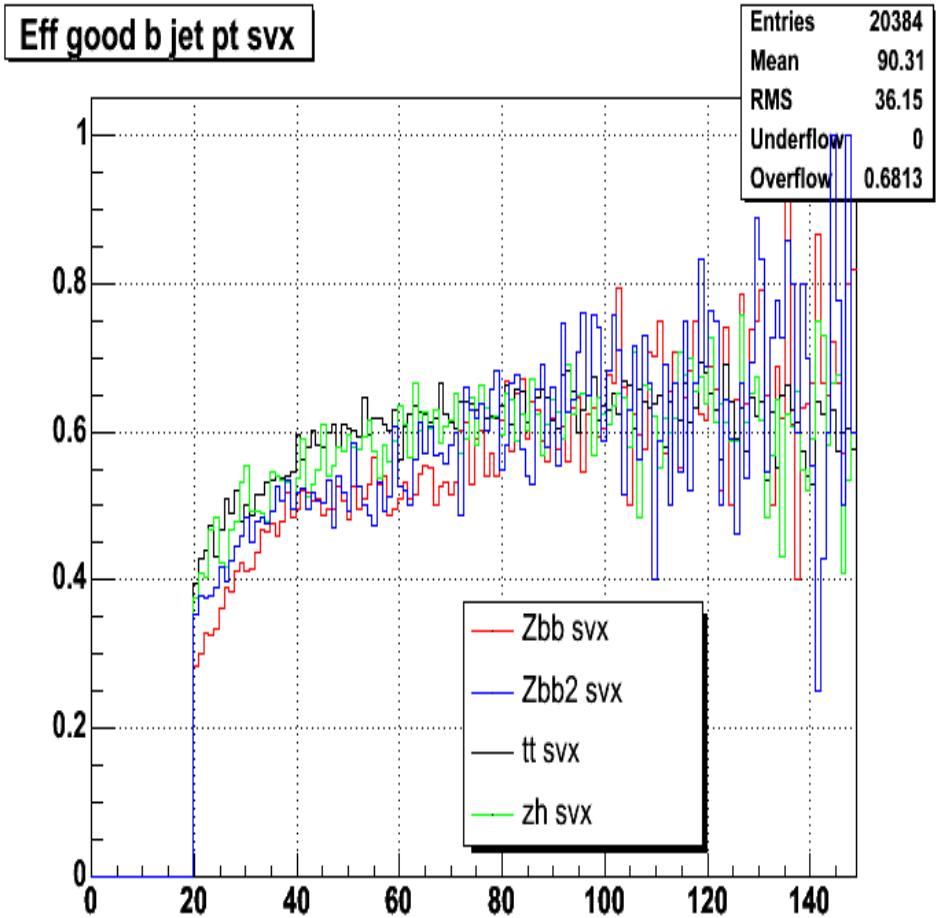


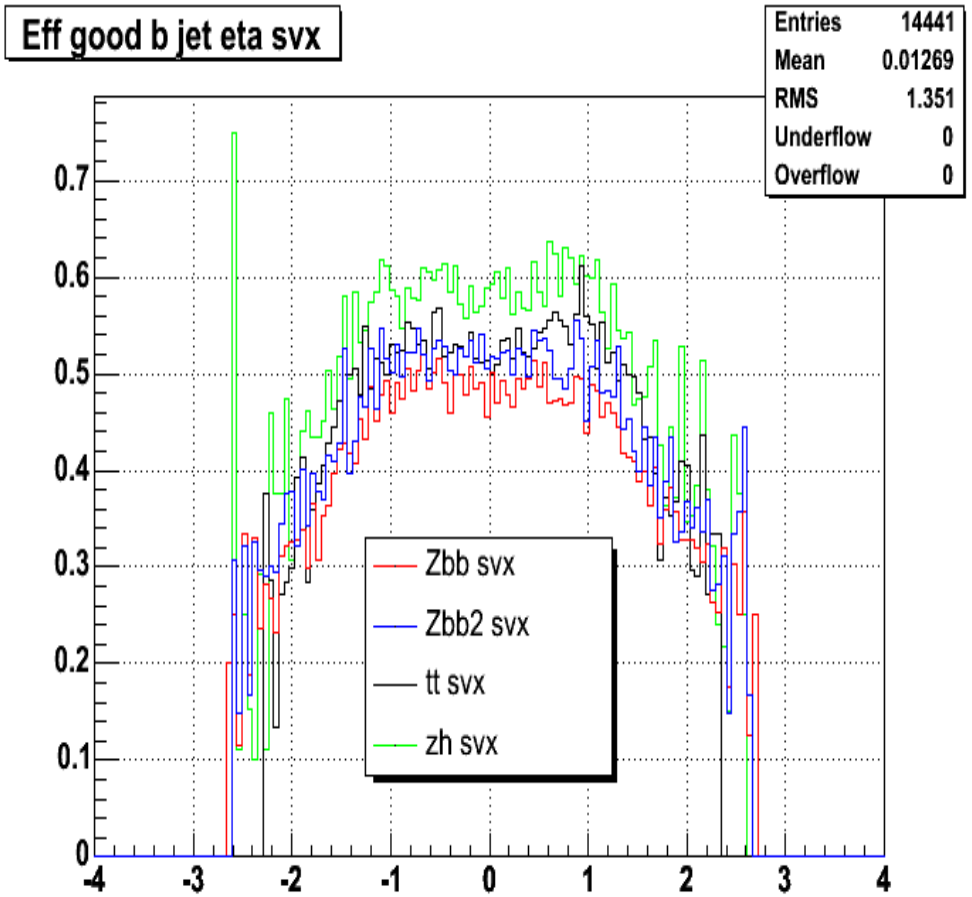




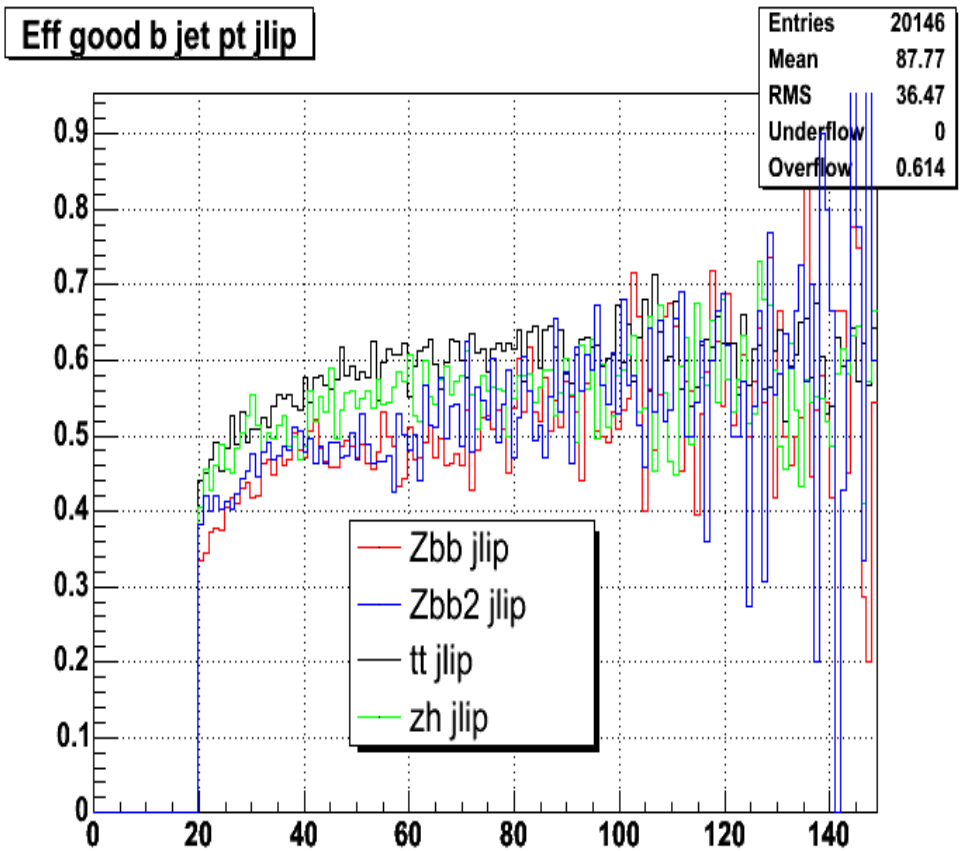


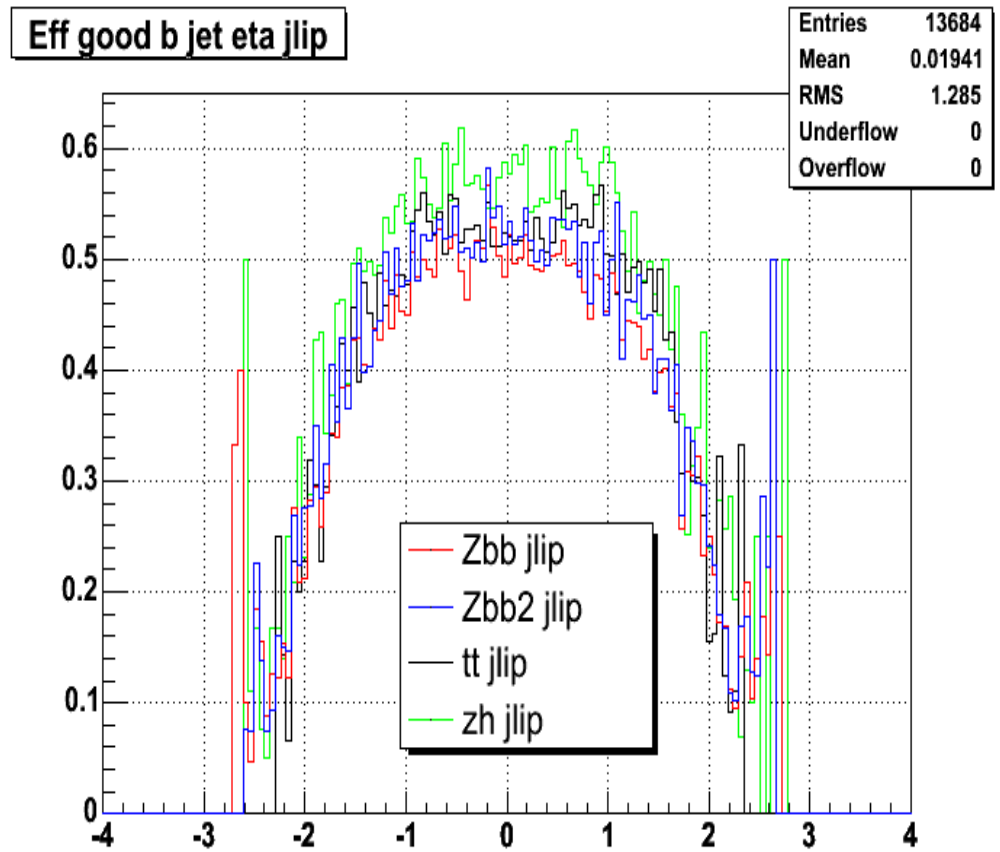
B Tagging Efficiencies



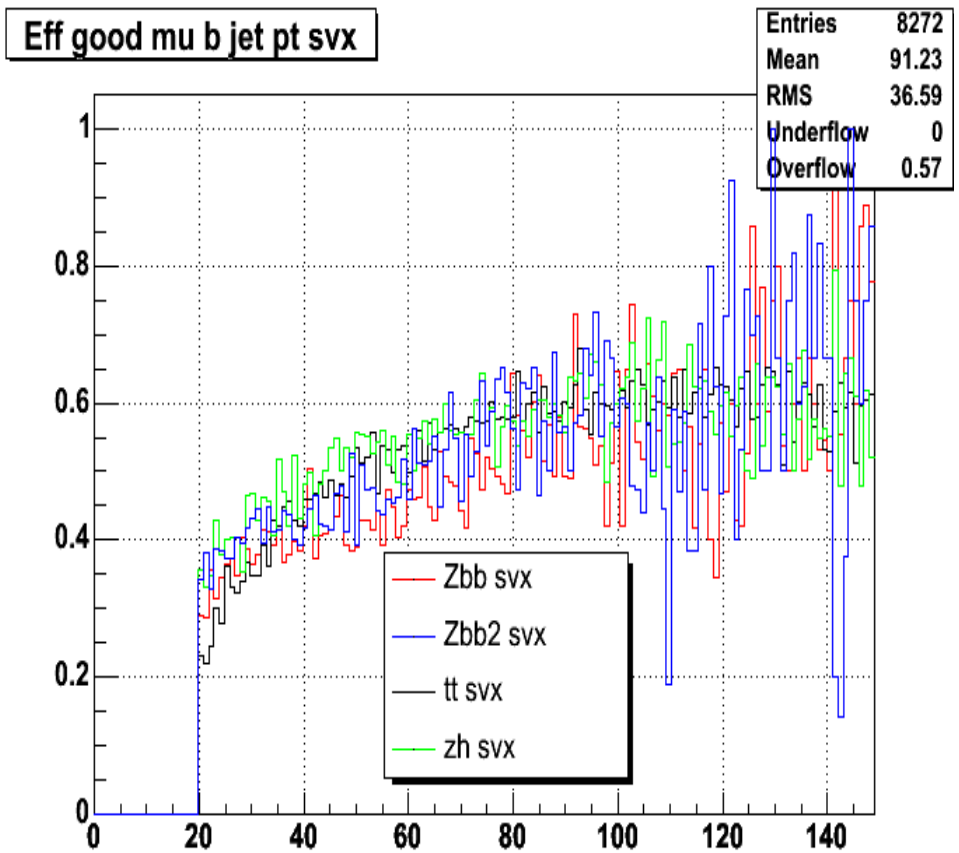


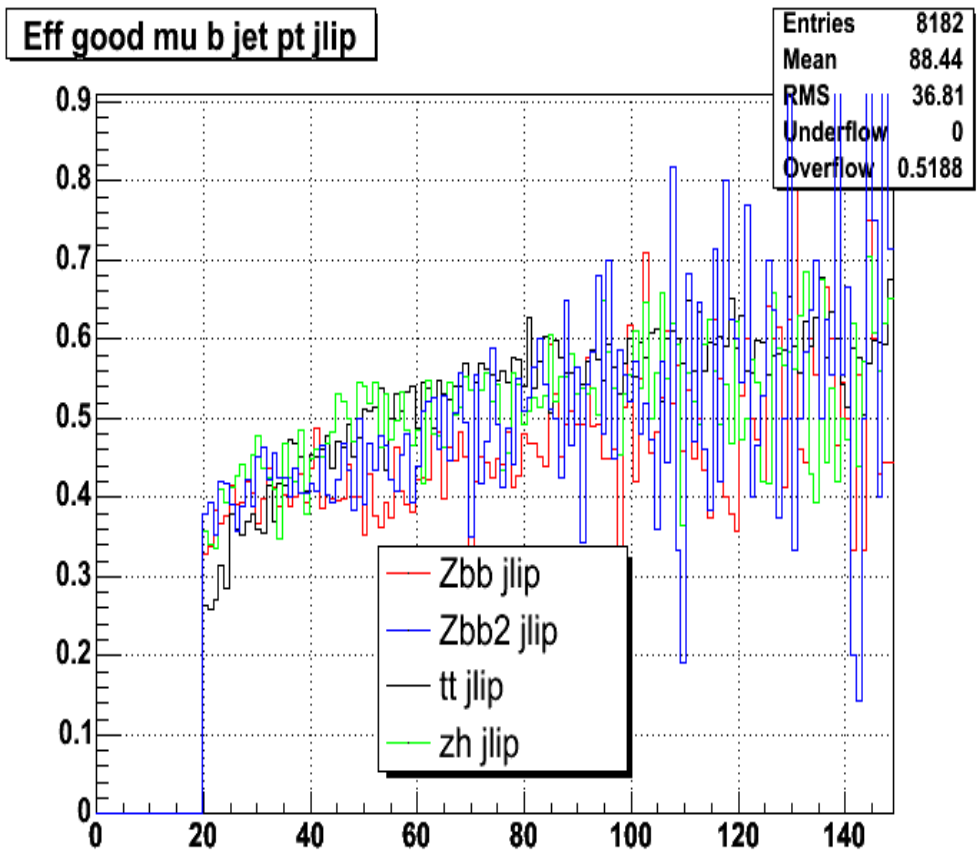
jlip


Eff good b jet pt jlip
Entries 20146
Mean 87.77
RMS 36.47
Underflow 0
Overflow 0.614
Zbb jlip
Zbb2 jlip
tt jlip
zh jlip


Eff good b jet eta jlip
Entries 13684
Mean 0.01941
RMS 1.285
Underflow 0
Overflow 0
Zbb jlip
Zbb2 jlip
tt jlip
zh jlip

Start with mu in jet





Pass 2 Monte Carlo Athenalized

Z->e e + X 400,000 normal + parton,particle,calorimeter jets
Zj->ee + j 188,250 normal + parton,particle,calorimeter jets
Zjj->ee + jj 291,200 normal jets
Zjjj->ee + jjj 14,750
W-> e + nu 244,820
Zbb->ee + bb
ZH->ee + bb 29,000
tt->2b+2l 46,000