Pandora PFA

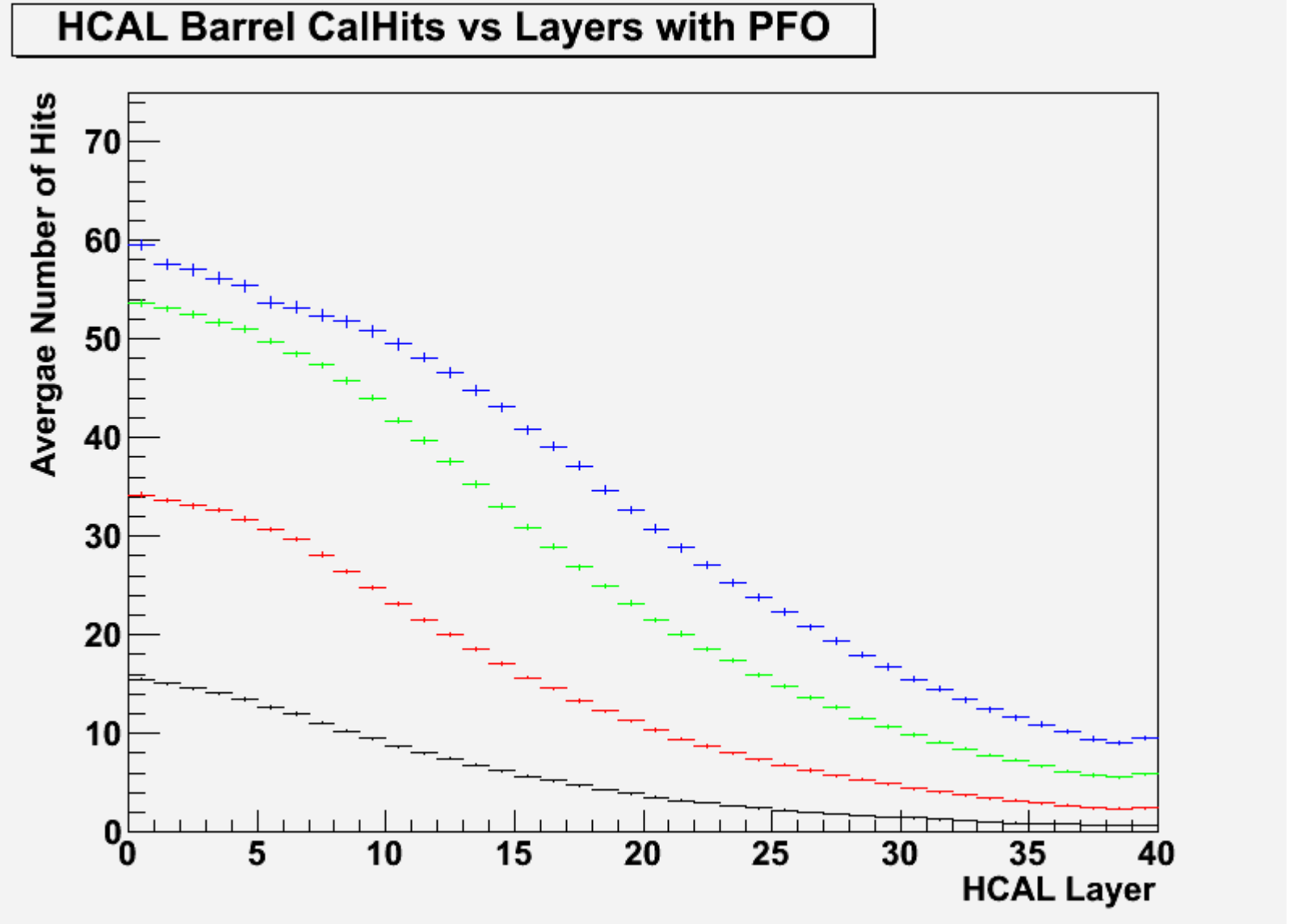
SiD PFA Meeting

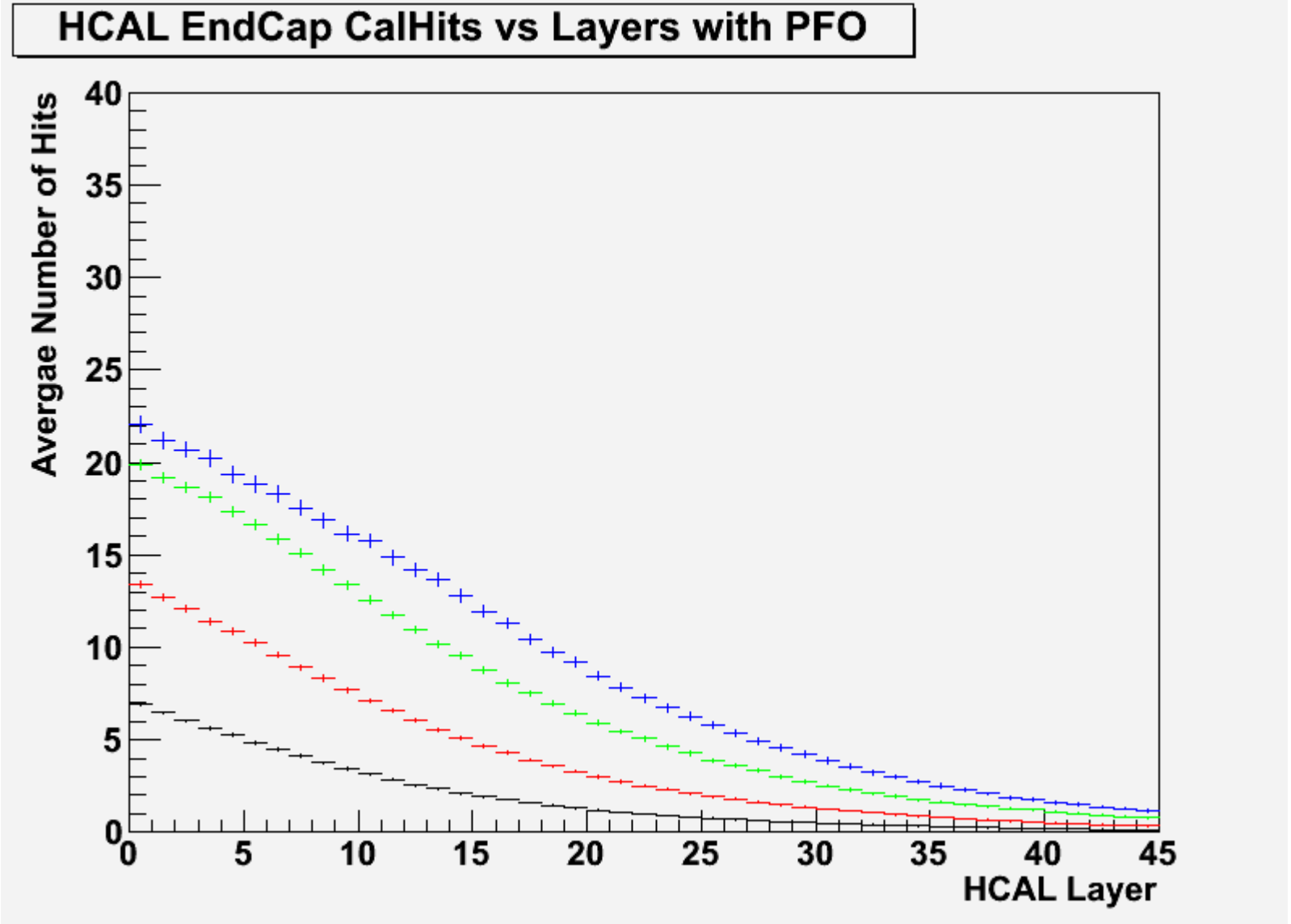
31.03.2010

M. Stanitzki

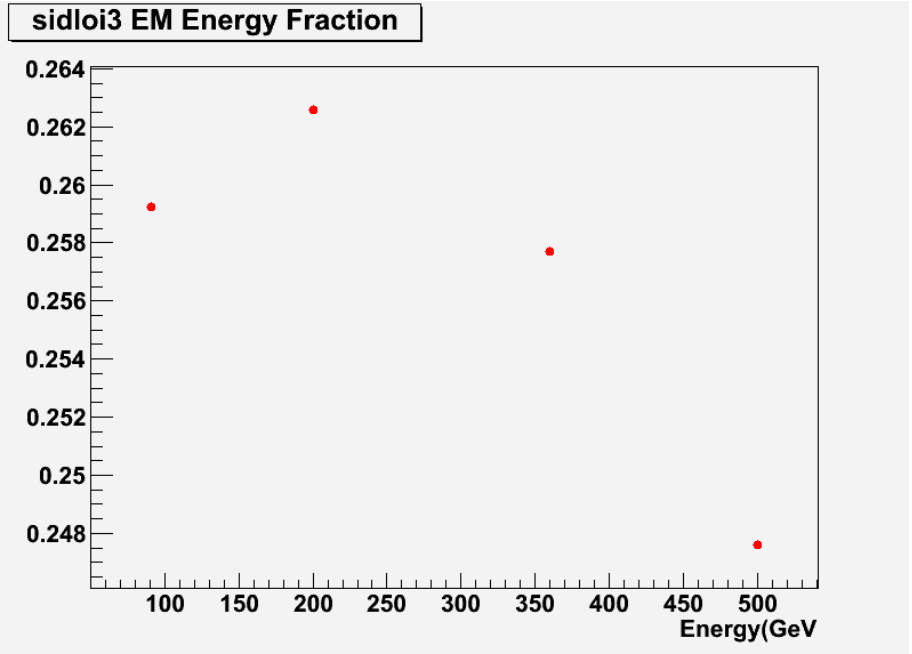
Using

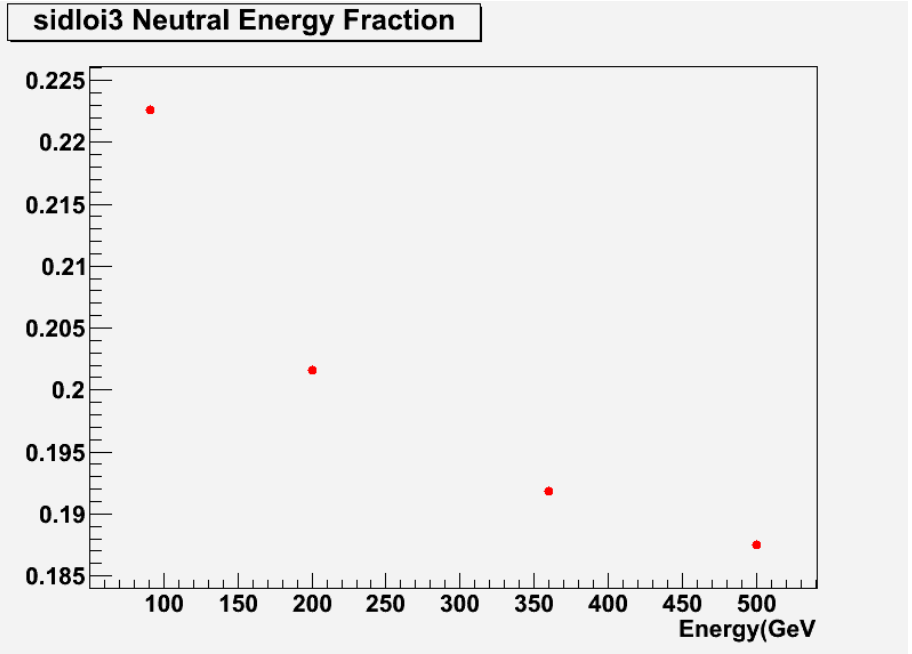
- Sidloi3
  - Digital with RPC's
- With tracking as available on ftp
  - Zuds 91,200,360,500
  - Lacks latest and greatet Rich'fix
- Latest and greatest SLICPandora
- Jet Forced in a two-Jet config using Durham


HCAL Barrel CalHits vs Layers with PFO
Avergae Number of Hits
0
10
20
30
40
50
60
70
0
5
10
15
20
25
30
35
40
HCAL Layer

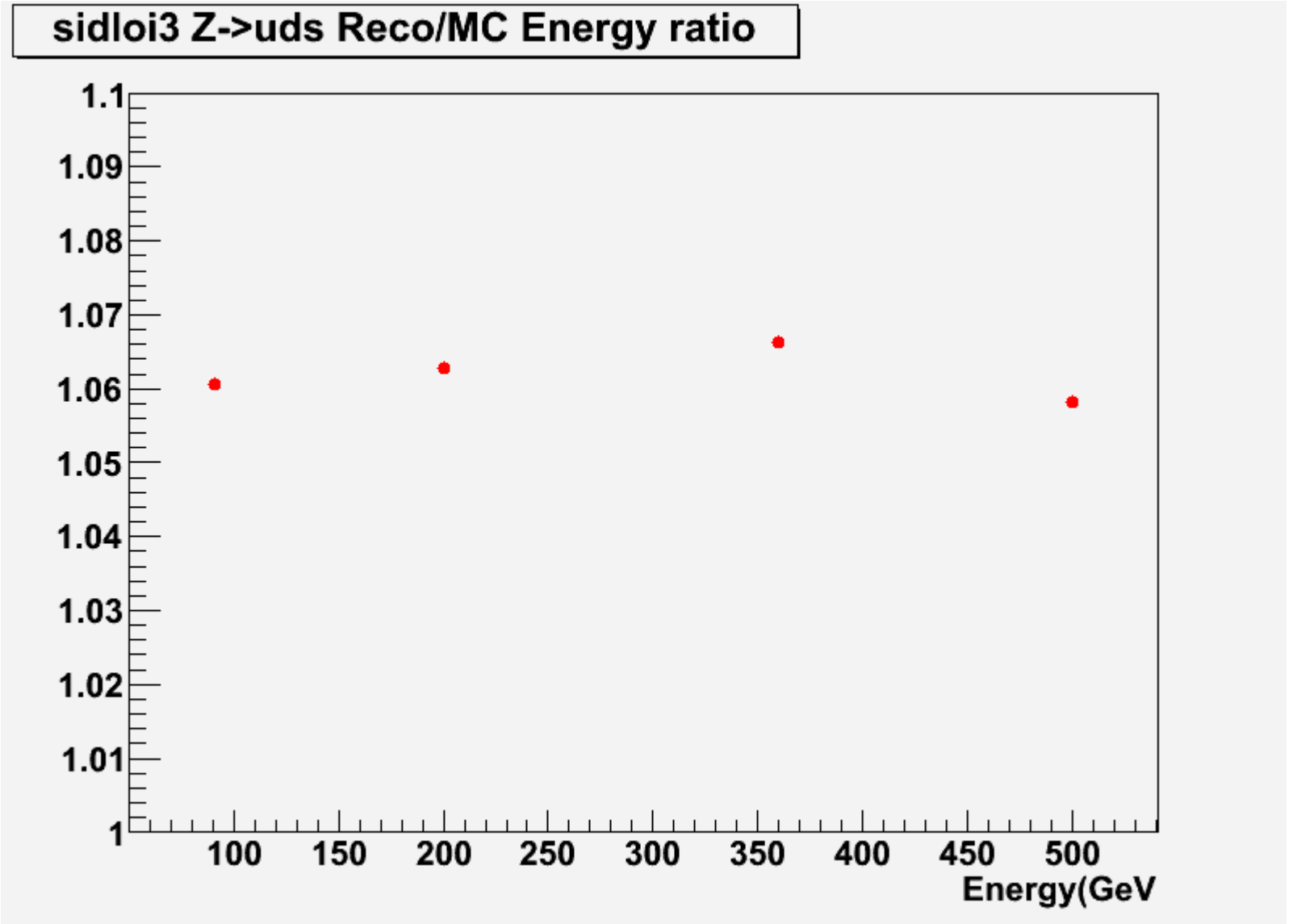

HCAL EndCap CalHits vs Layers with PFO
Avergae Number of Hits
0
5
10
15
20
25
30
35
40
45
HCAL Layer

Energy fractions

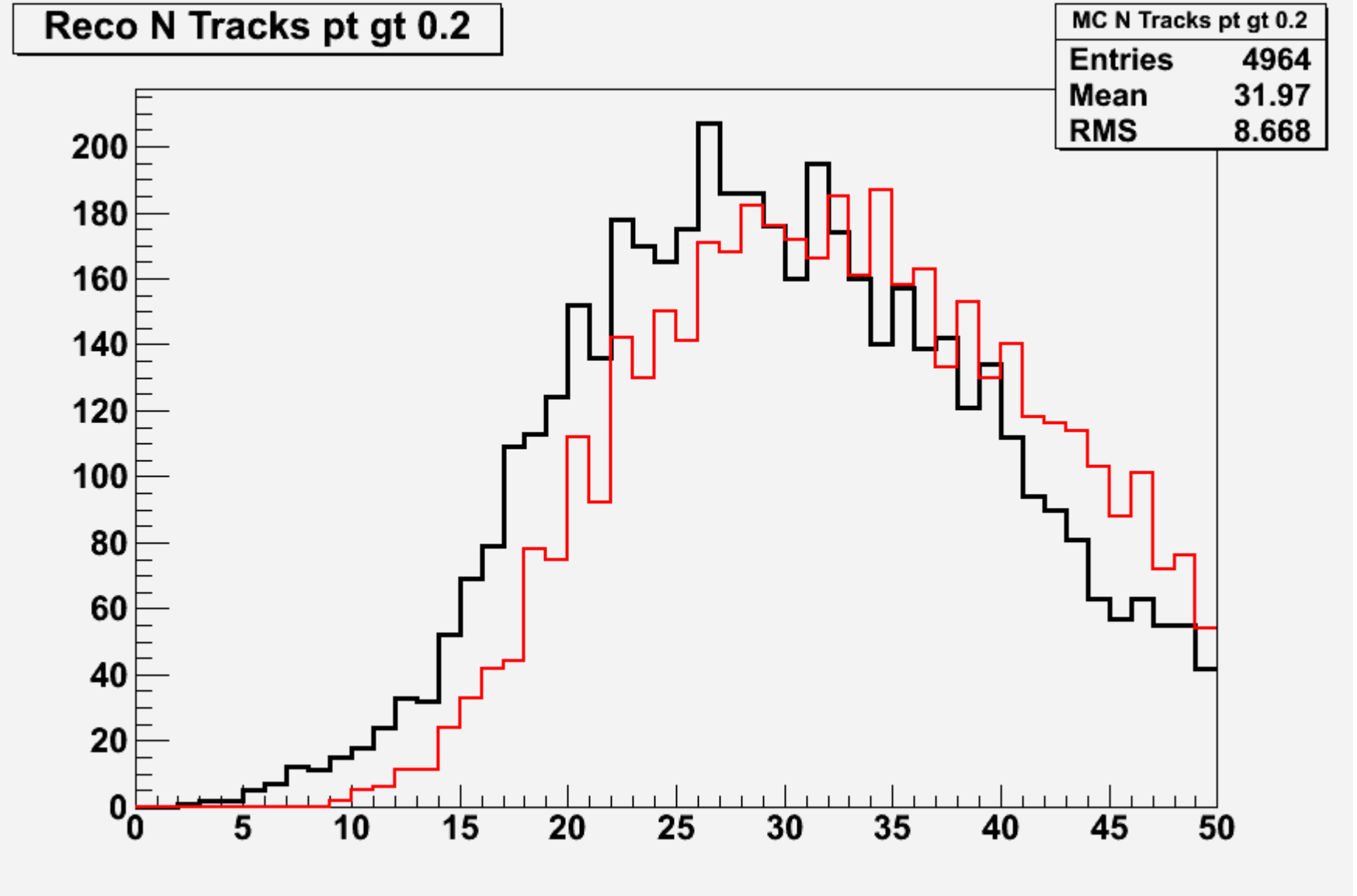




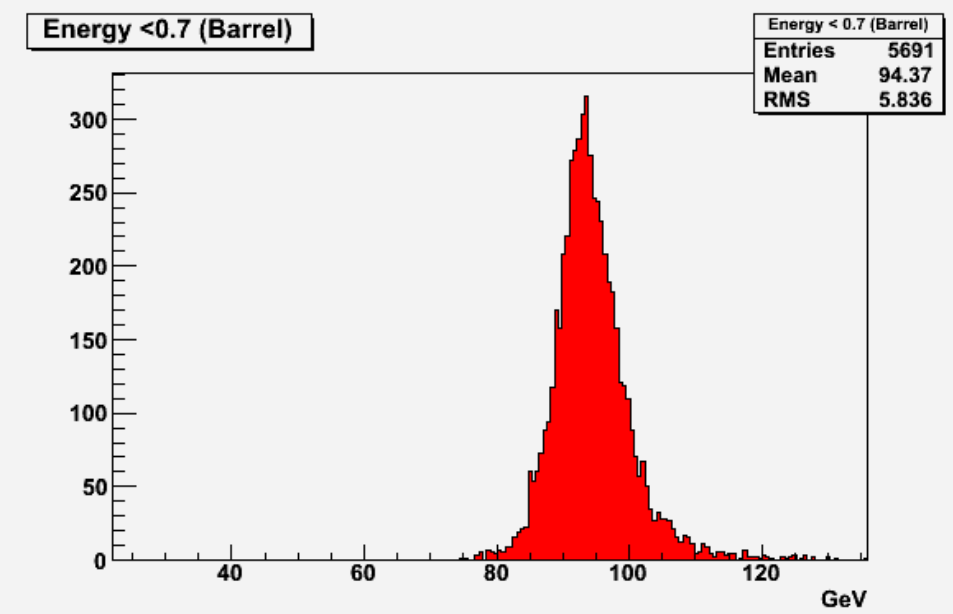
Reco/MC ratio

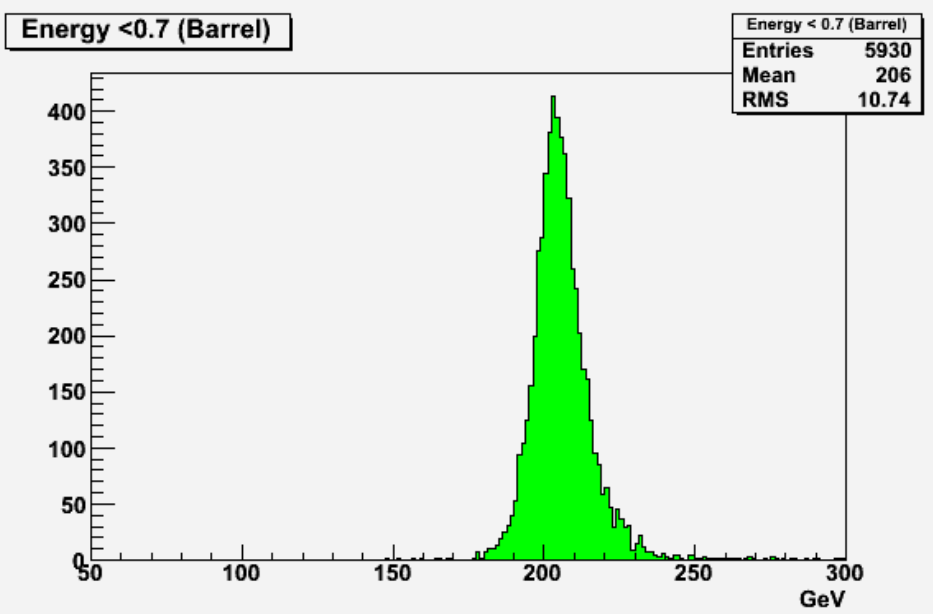


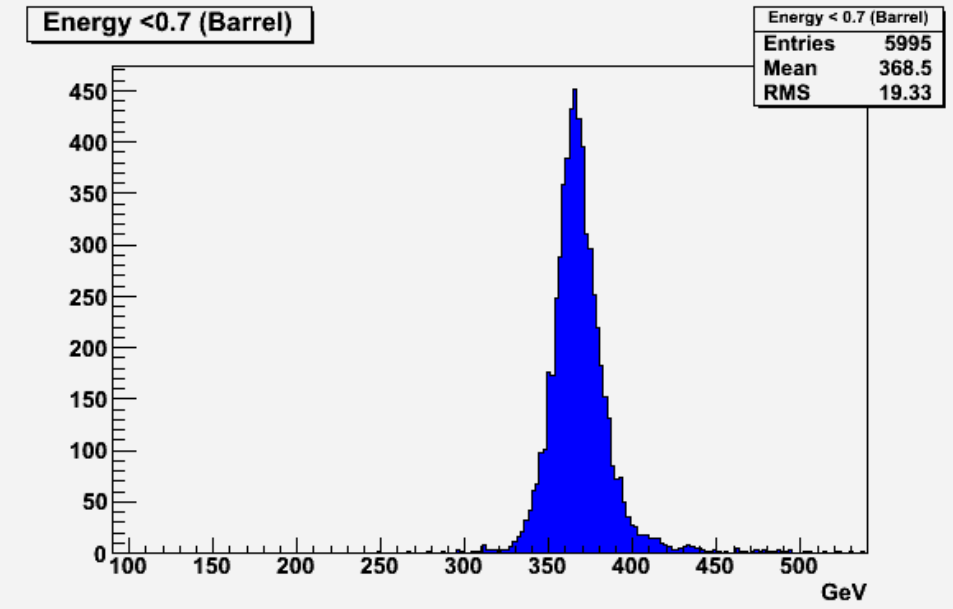
Looking at Tracks

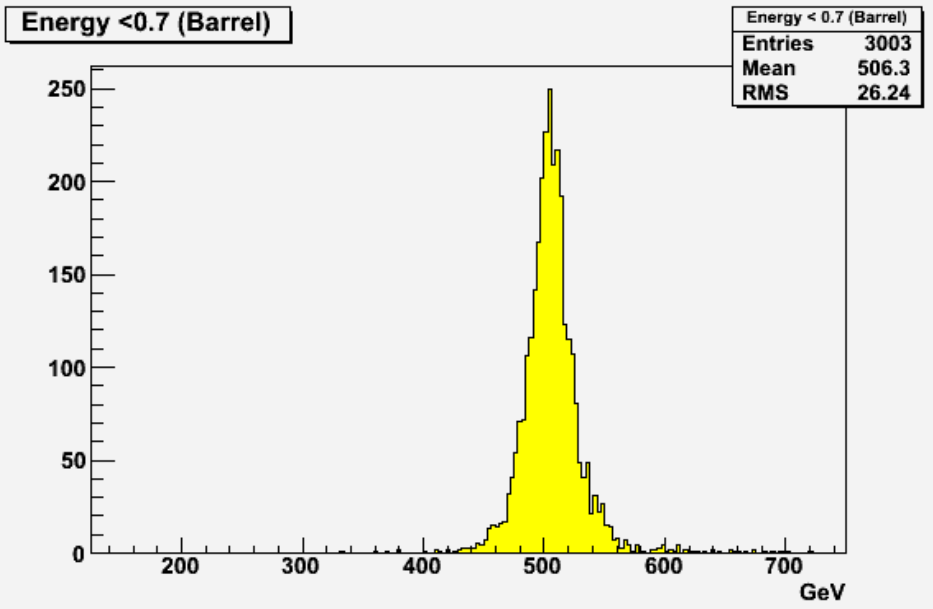


Energies-Barrel



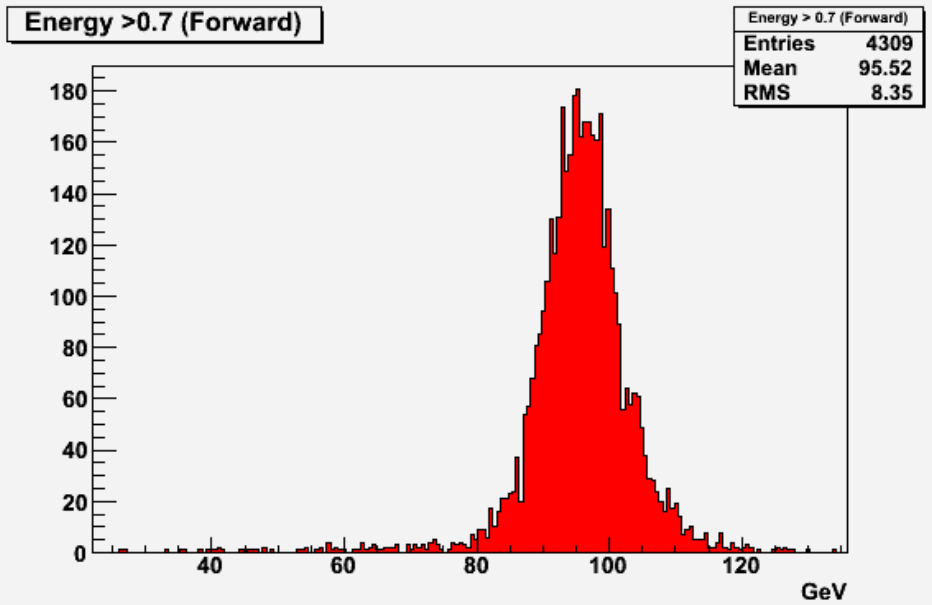


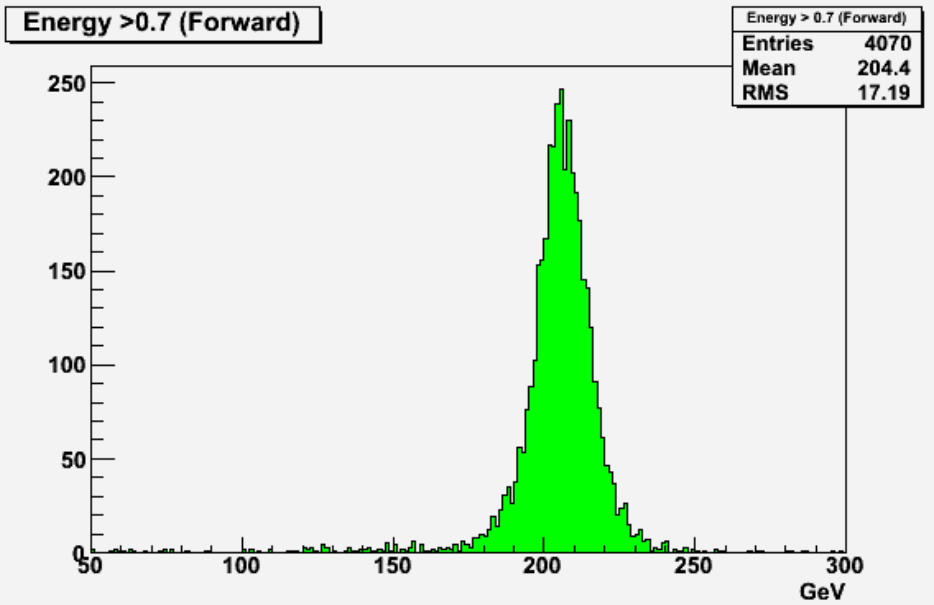


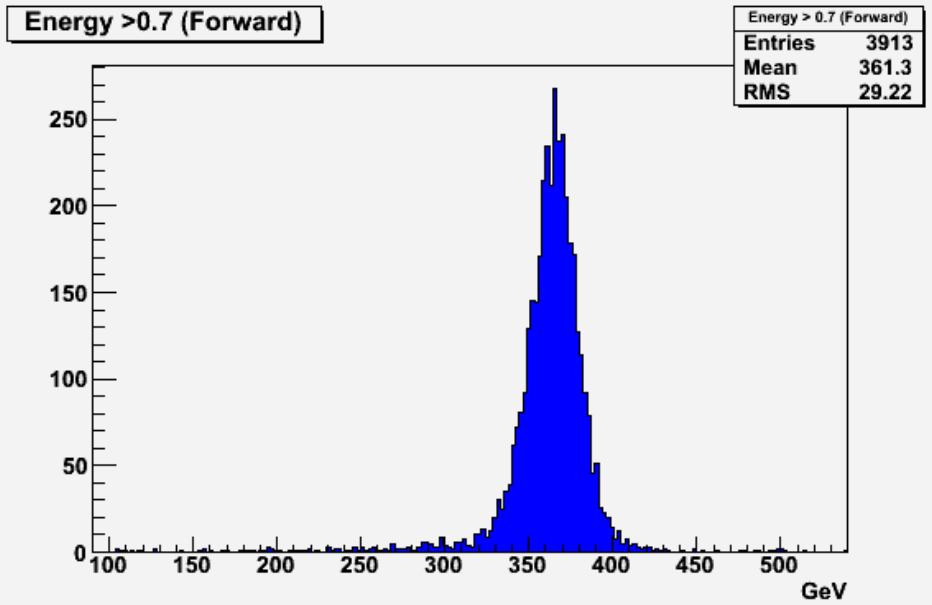


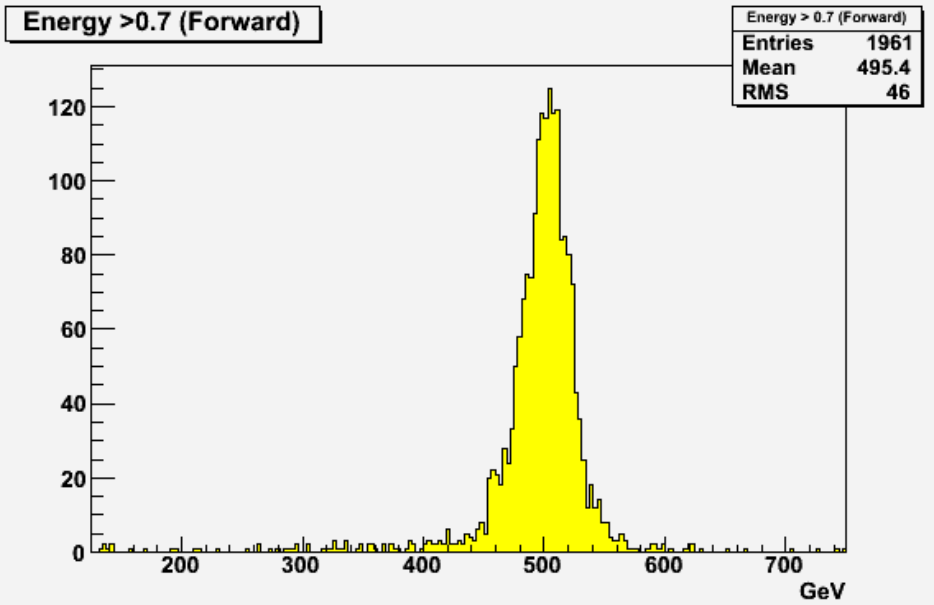
Using cos(theta_thrust) definition)

Energies-Forward

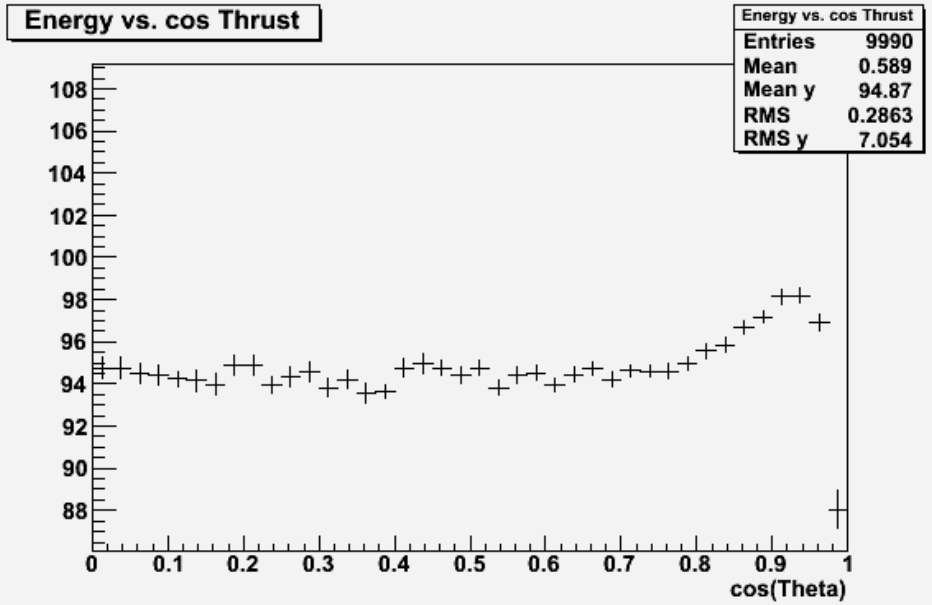


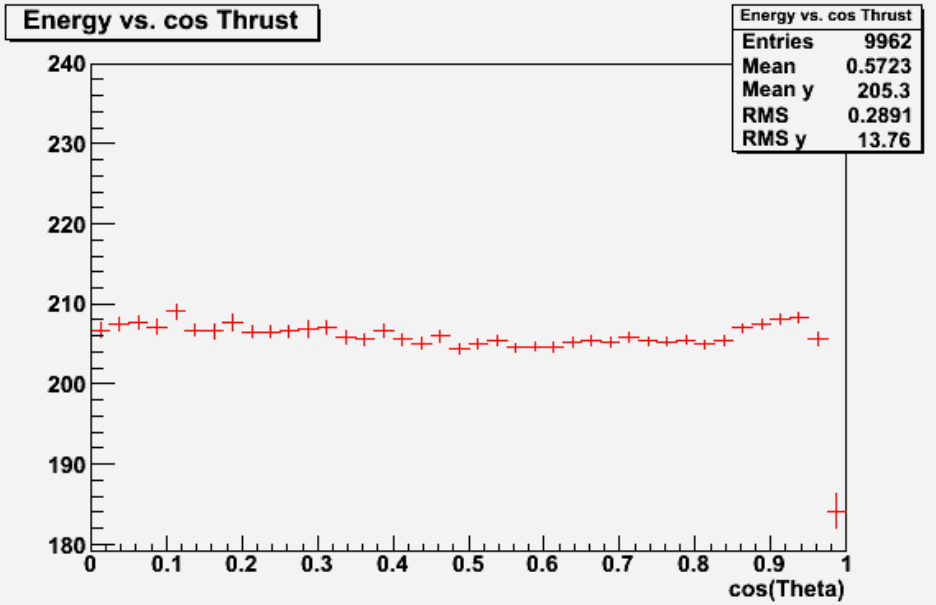


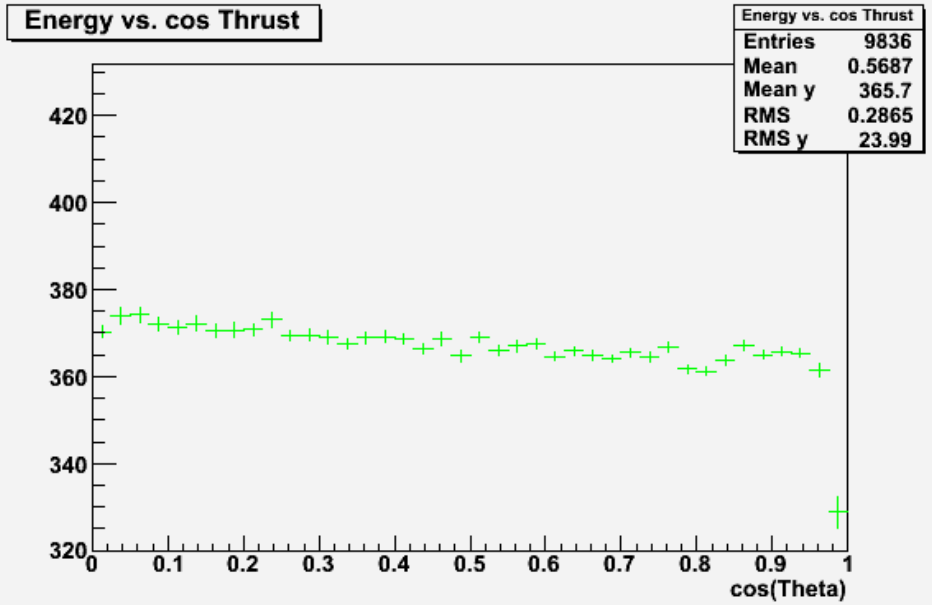


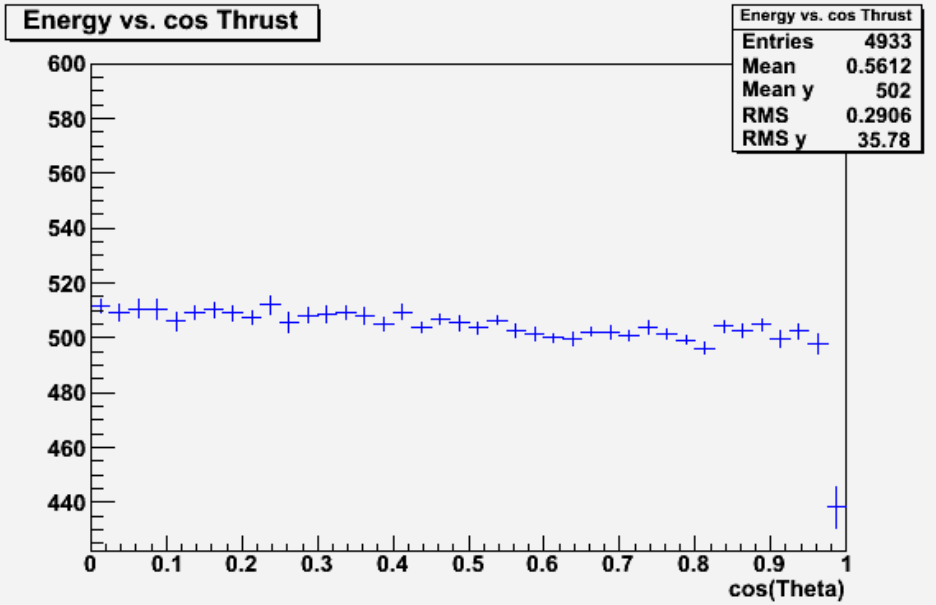


Energy vs Thrust

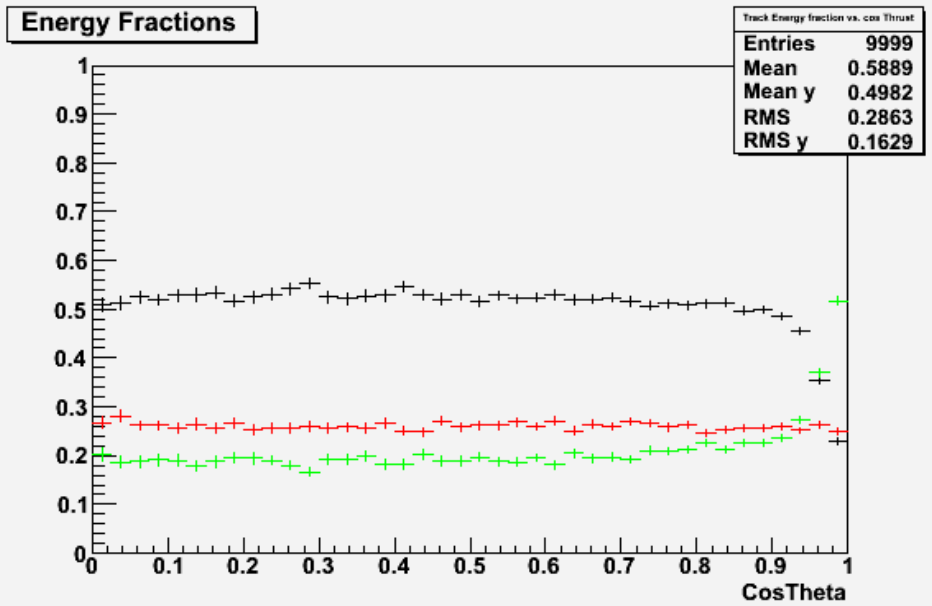


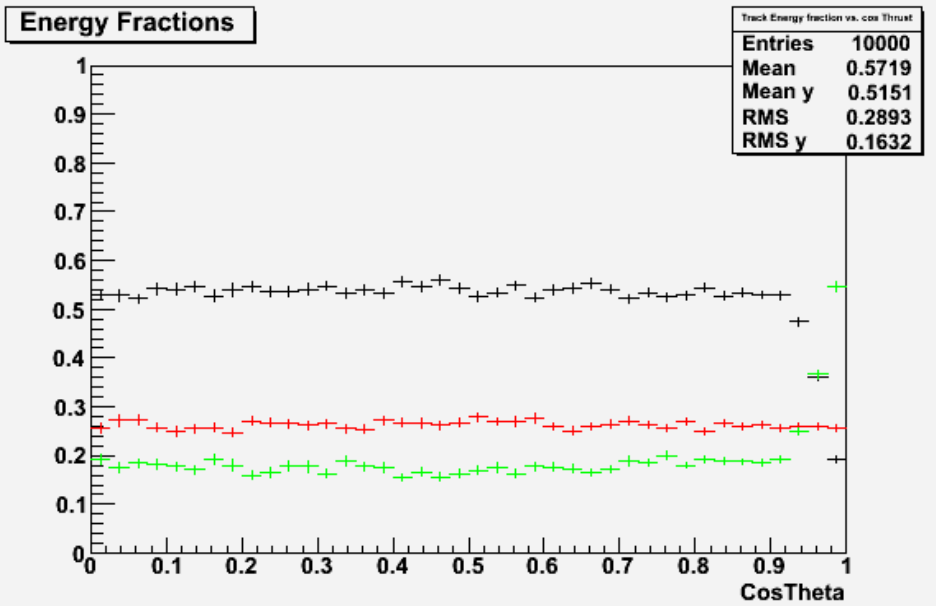


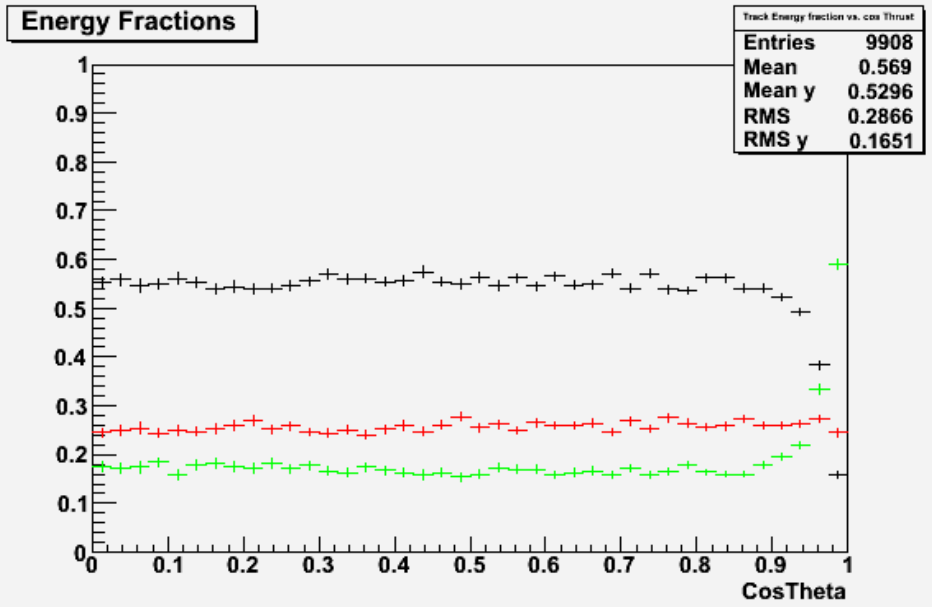


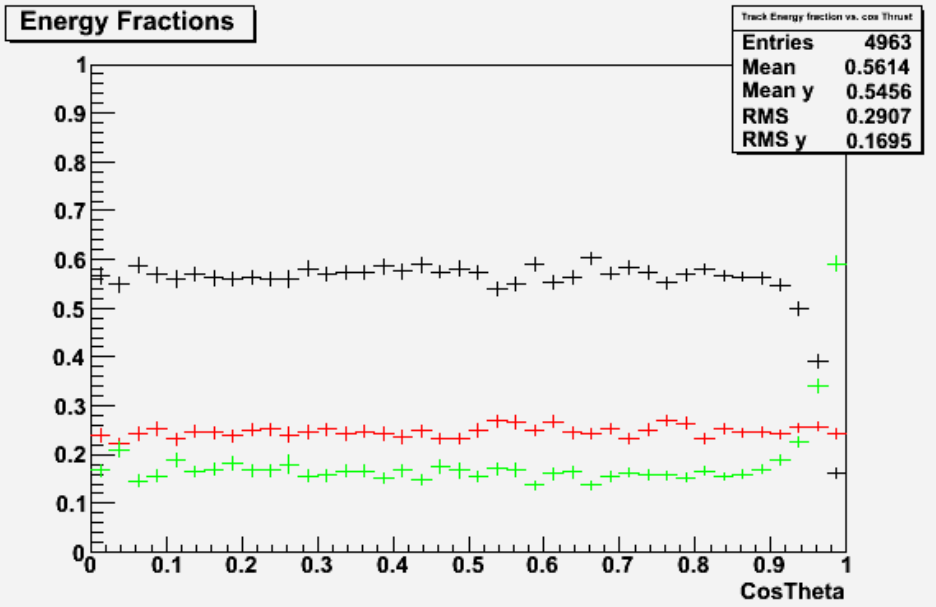


Energy Fractions

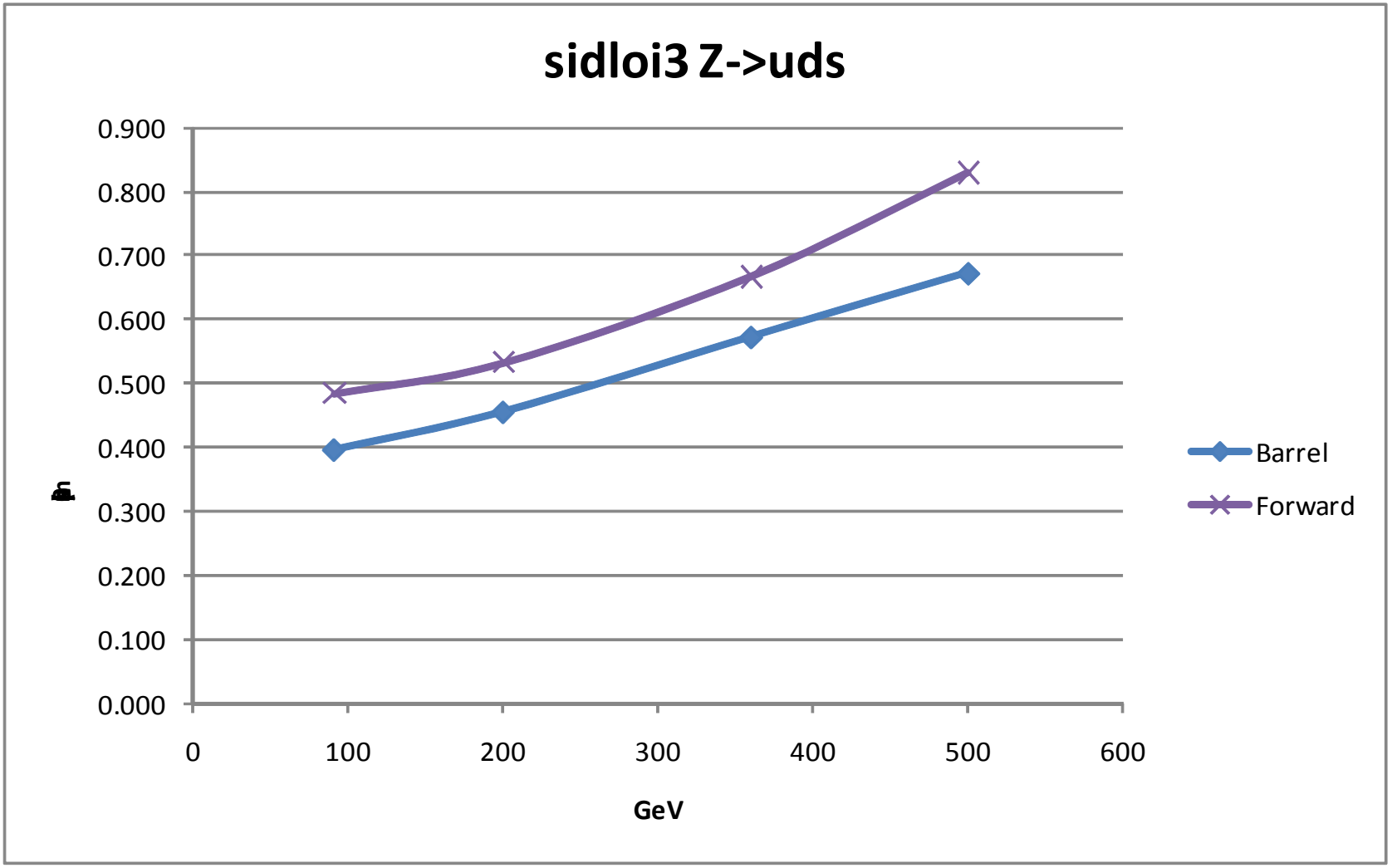








α(rms90) a la Mark



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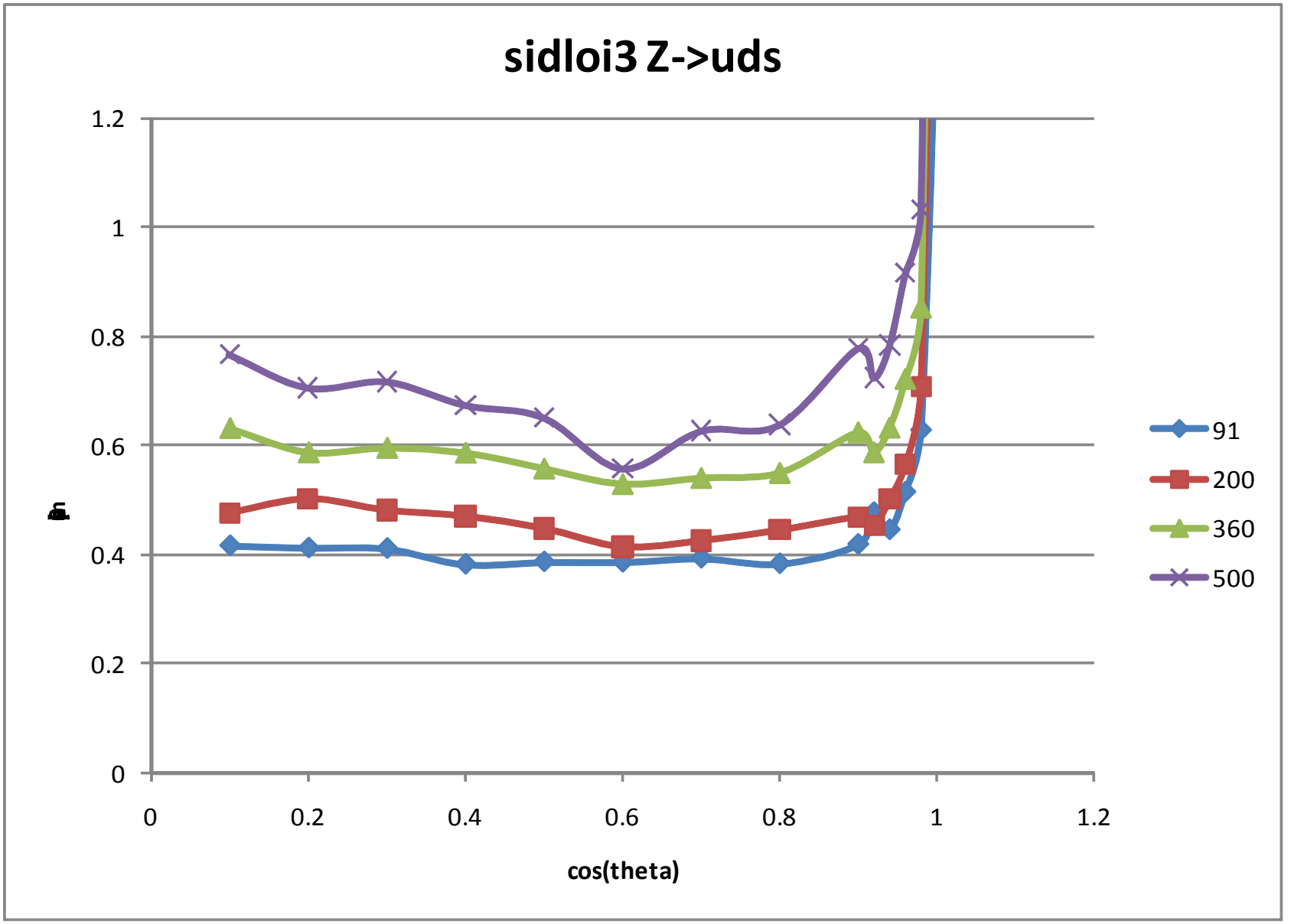
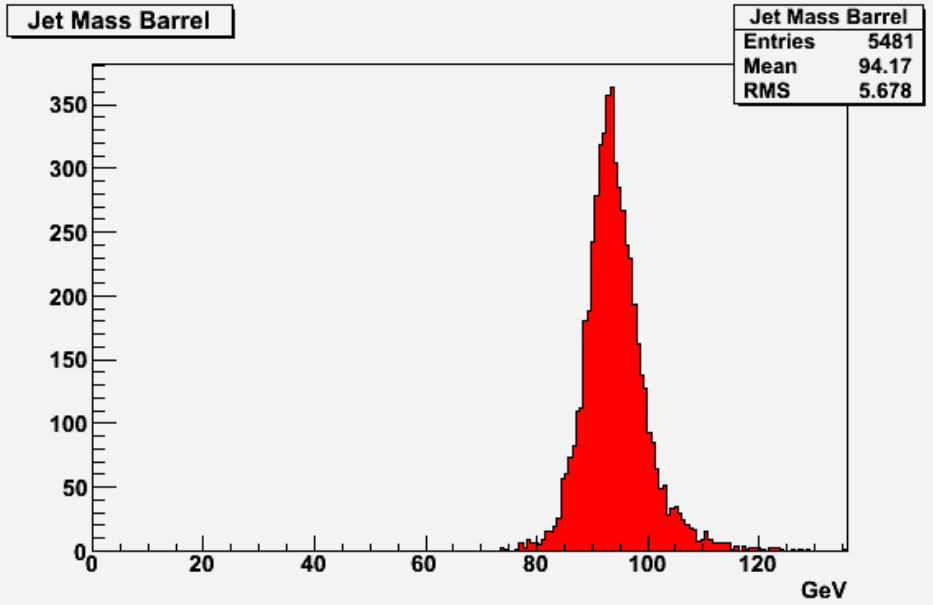
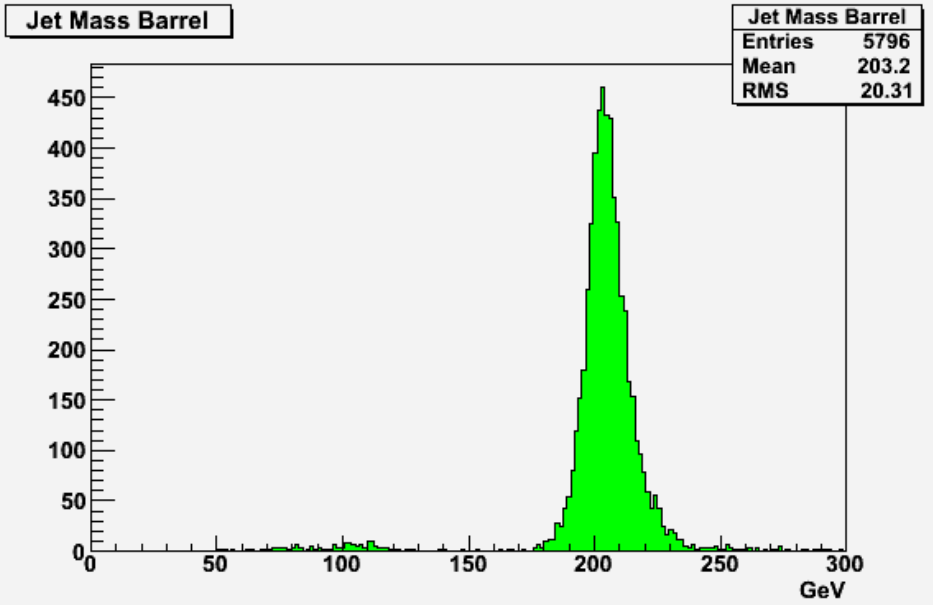

sidloi3 Z->uds
1.2
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
1.2
cos(theta)
91
200
360
500

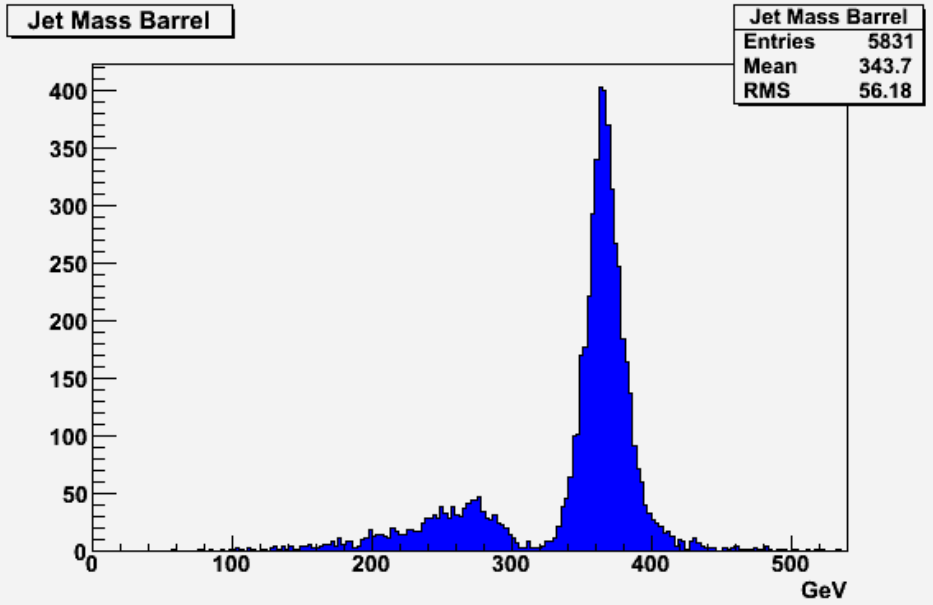
Disclaimer

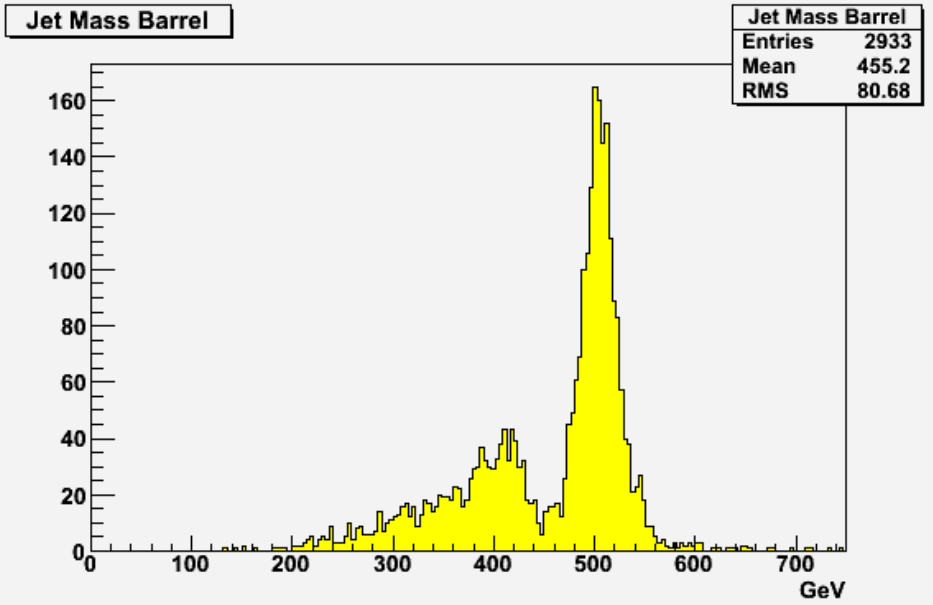
- Following three plots " as is"
  - No Jet Quality check
  - Only geometrical cut
  - Showing, that we can do di-jets quite well
- However clearly instances
  - Where it fails … especially at high energies
- So **DON'T GET TOO EXCITED**
  -

DiJets Barrel

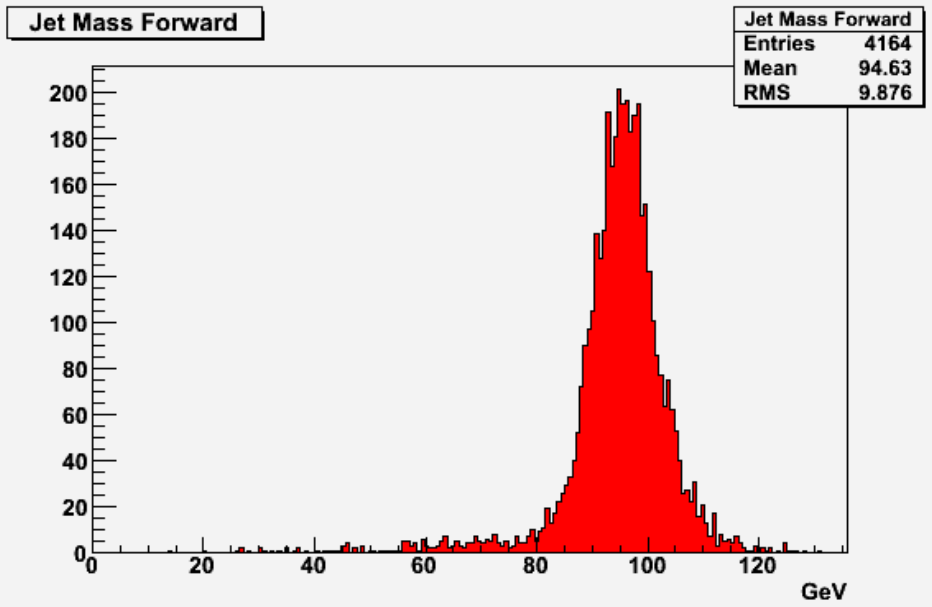


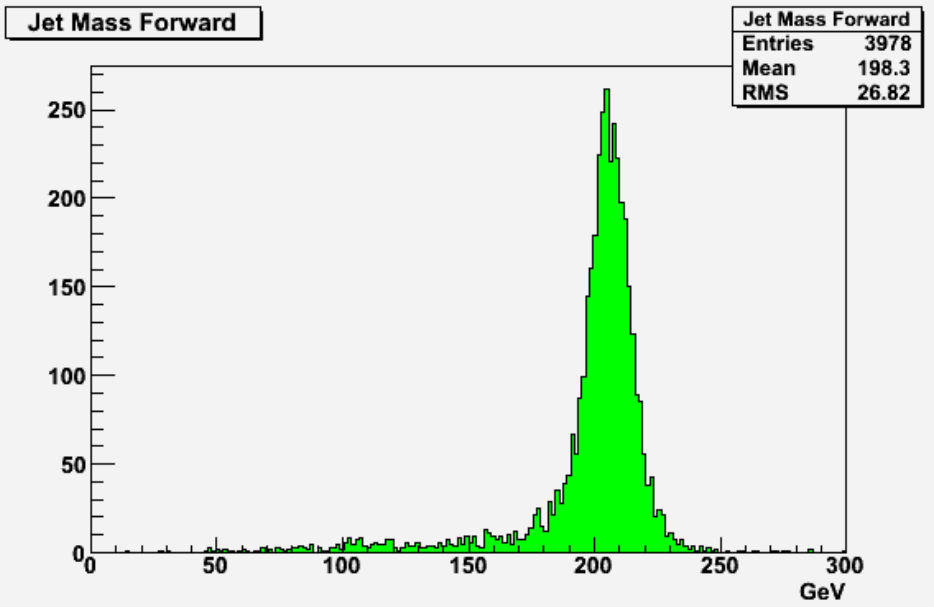


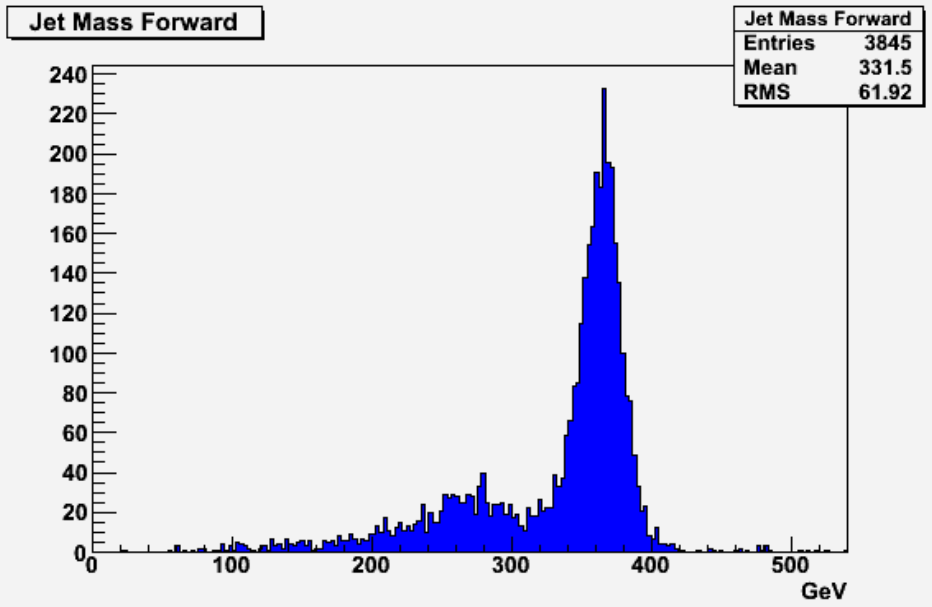


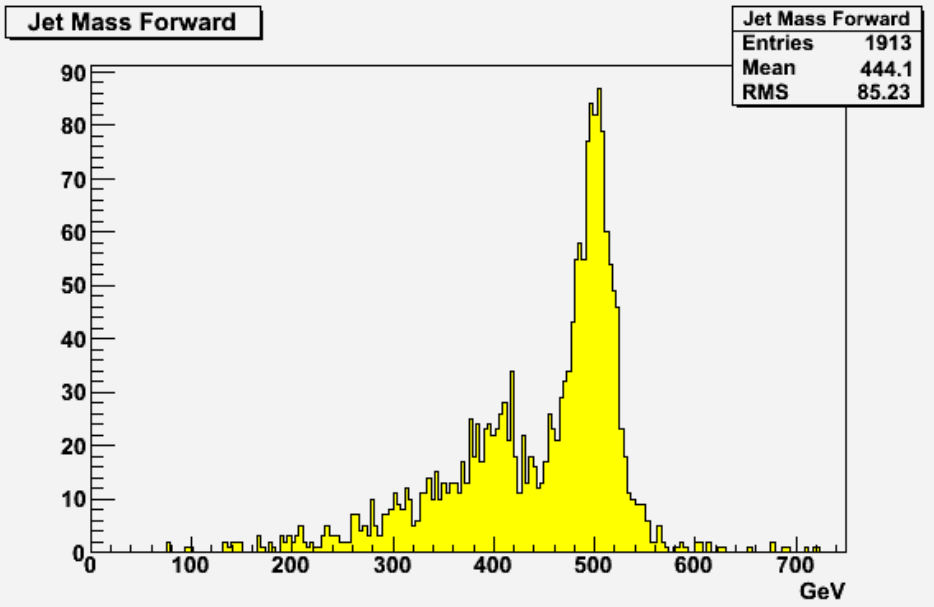


DiJets Endcap









DiJets Mixed