Status of Crack Response of Electron

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Z (Data 5.3.1, MC 5.3.3)

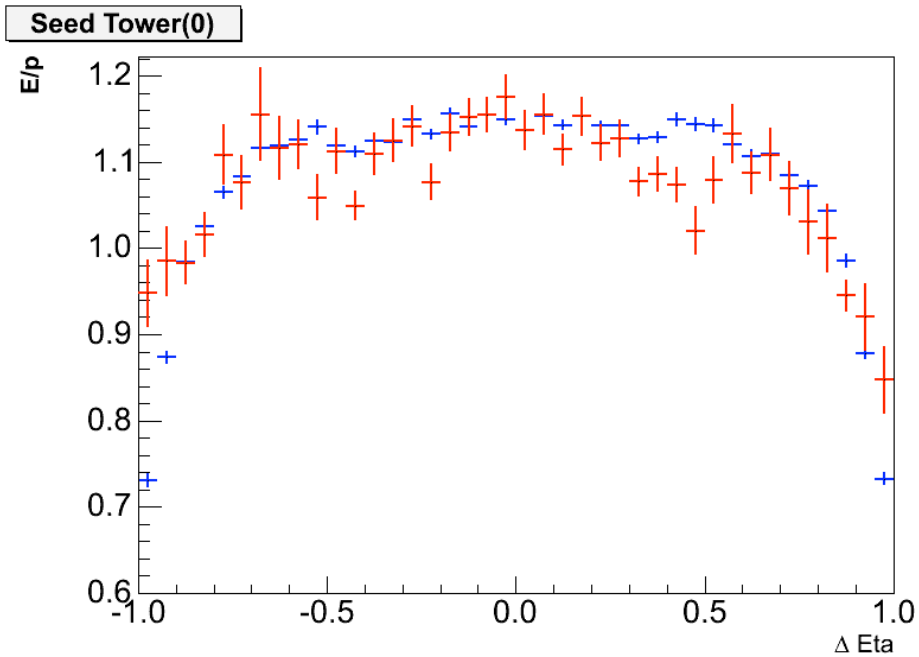
- Loose z ee (zewk0d) sample
- Reprocessed with Pass13A
- ~390 pb−1 (2/4/2002 −5/30/2004)
- Pythia (Zee+Min bias) + 5.3.3
- EWK group (zewkae) sample

Electron Selection

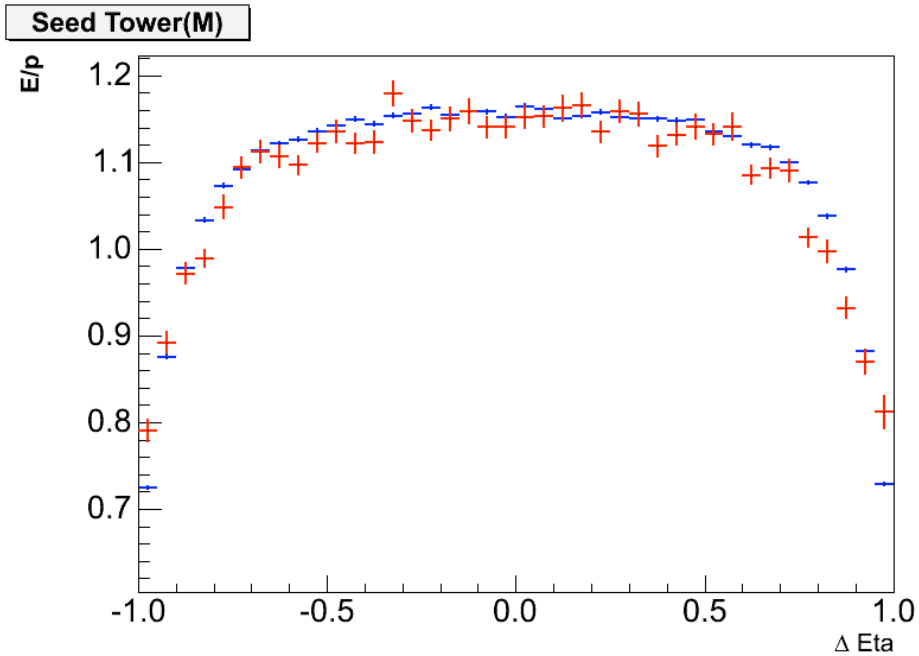
- E/p < 2.0
- Had/em < 0.055+0.00045*energy
- IsoEt/Et <0.1
- Ces Strip chi2 < 10
- Delta Z < 3.0
- -3.0 <Q*delta X < 1.5
- Number of matched track = 1
- 66 <M(Z)<116 GeV/c^2

η profile

Tower 0



Tower 2-5

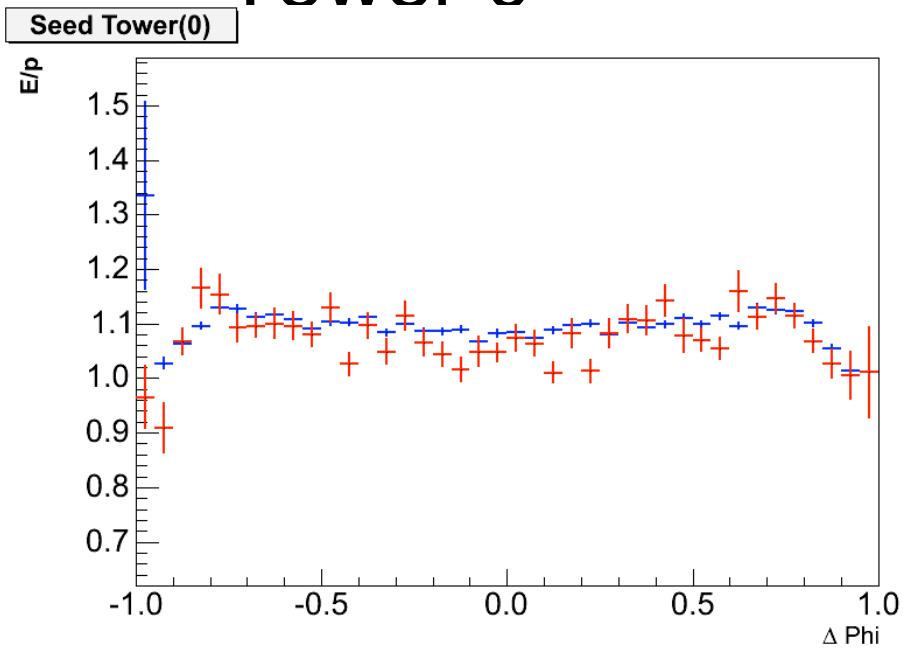


-Monte Carlo

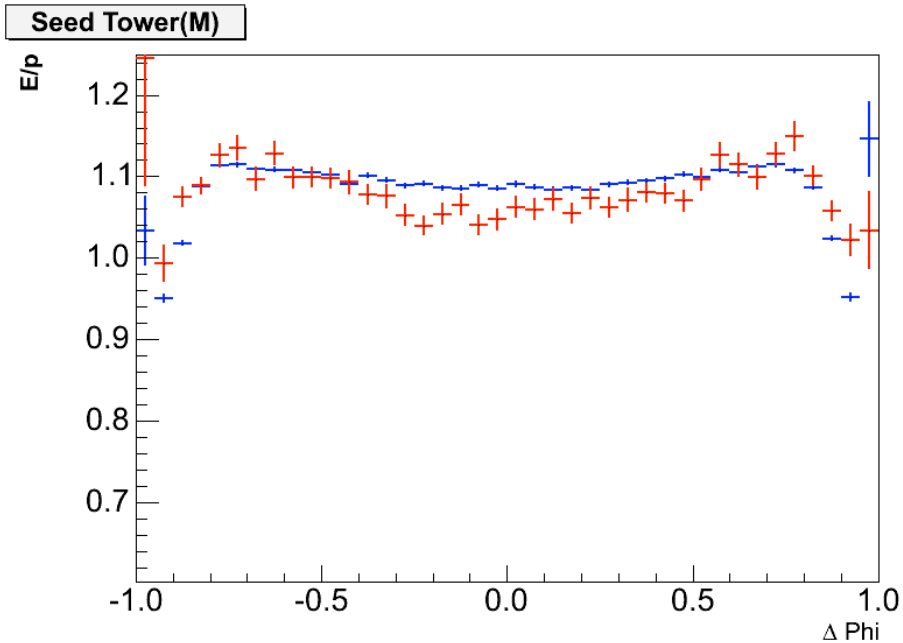
-Data

ϕ profile

Tower 0



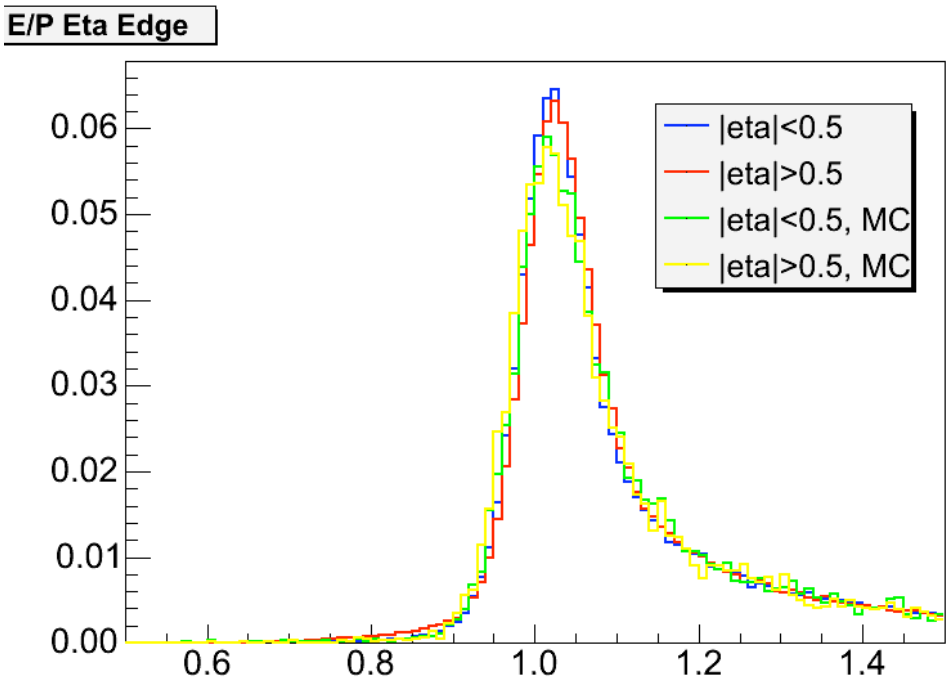
Tower 2-5



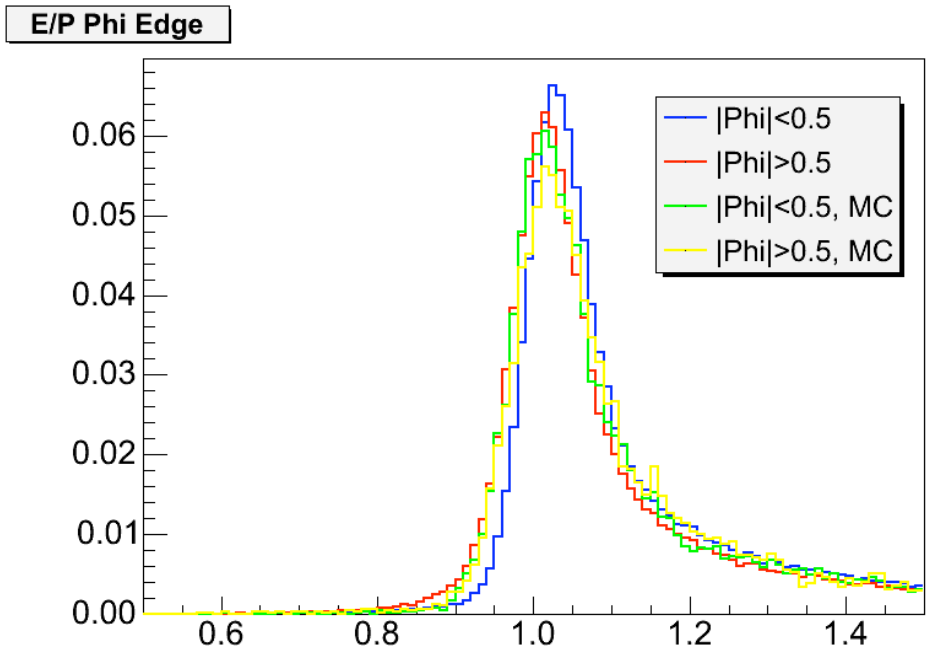
-Monte Carlo

-Data

eta



phi



MC and Data comparison
After leakage correction
No difference in eta
But a big shift in phi

Plan to check Phi Crack Response

1) use high pt central electron trigger
2) have a tight high pt electron in Central
3) select a track>10 GeV in central region
4) have 2x2 energy in CalData
5) Apply E/p, track ISO, Had/Em cuts
6) Choose ($70<M(ee)<110$ GeV/c^2)
7) electron response in the Phi crack
8) Compare data response with simulation
9) Tune profile if see difference