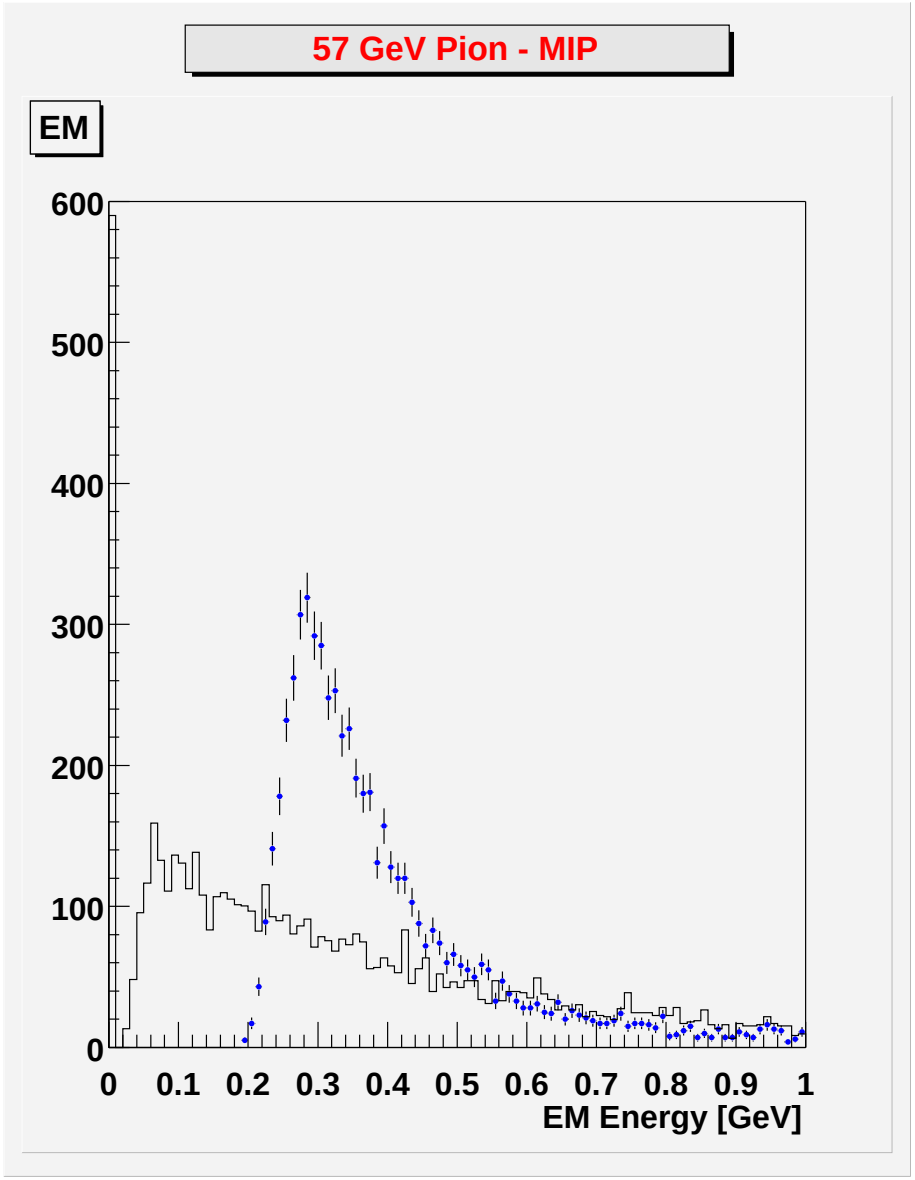
Hadron plug calorimeter tuning: update

- Mip problem ☞ seems to be twofold ...

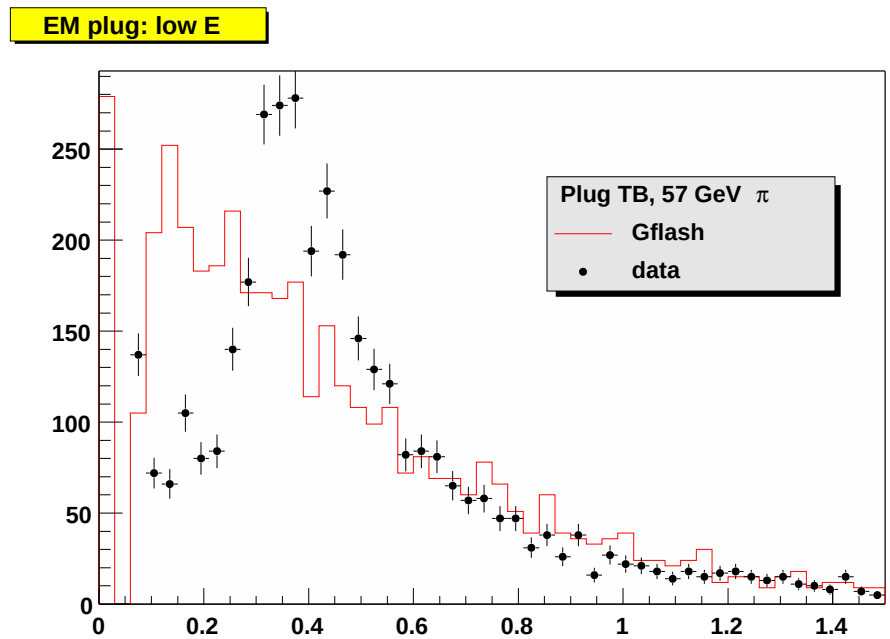
  see (1) CC (2) Soon's talks ...
- Update for 8–227 GeV pions

Mip problem (1)



⇦ central (Soon)

⇩ plug



Mip problem (2)

Problem appears in the determination of the sampling fluctuations ...

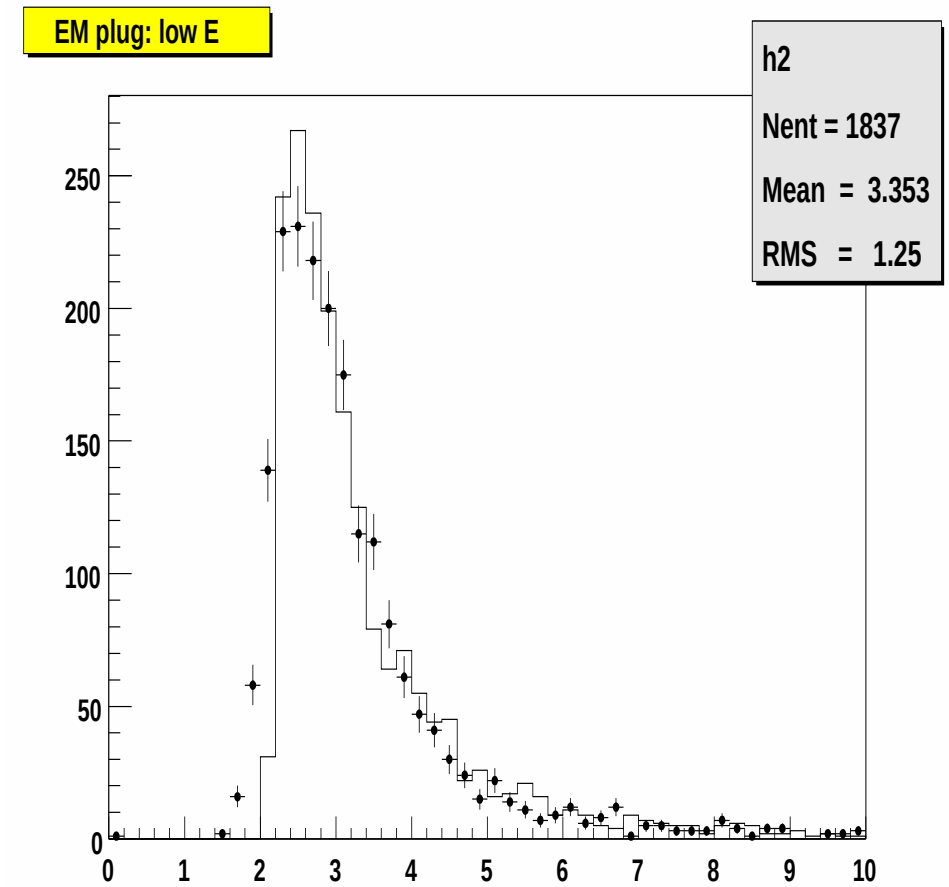
gfelos() -> gfsamp() -> gfrgam()

... all particles treated on an equal footing, except muons (?!)

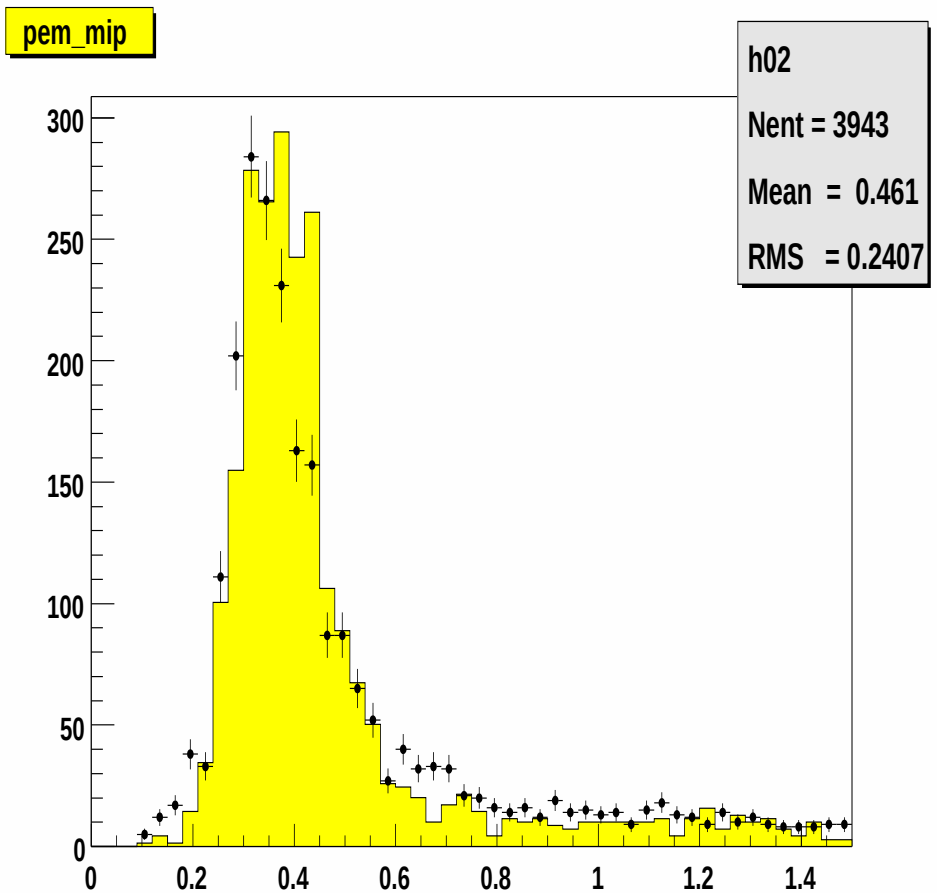
Now, distinction is made between:

- mip particles -> Gaussian fluctuations (2 new parameters)
- showers -> left as is, fluctuated according to Gamma distribution

Mip after correction

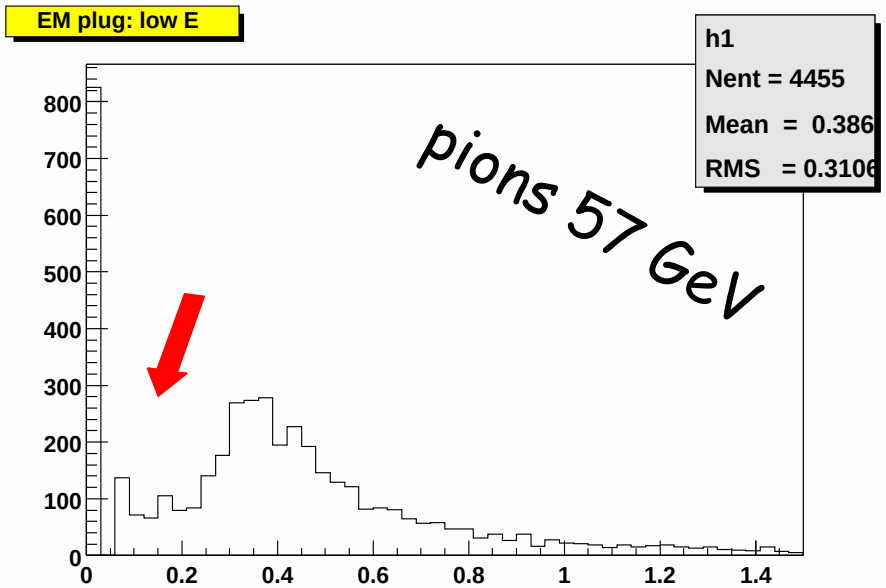


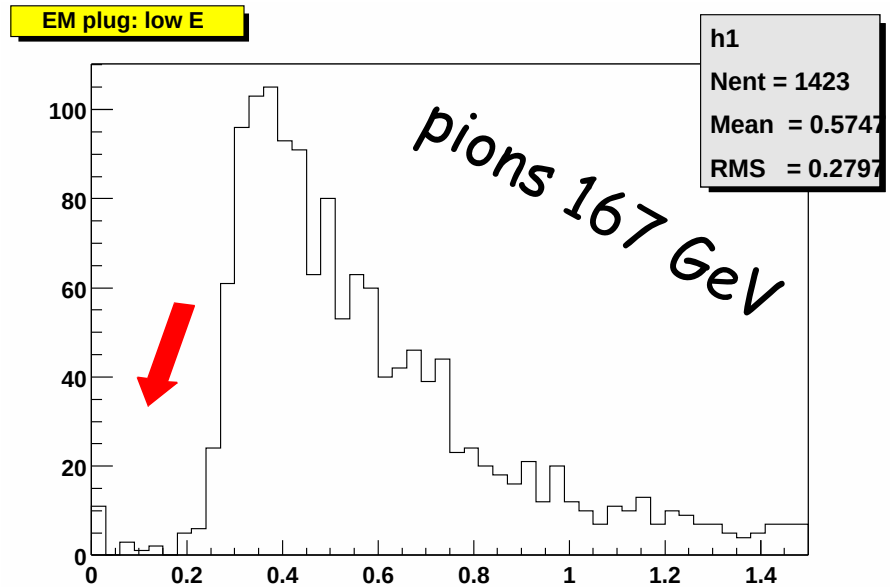
muons 167 GeV

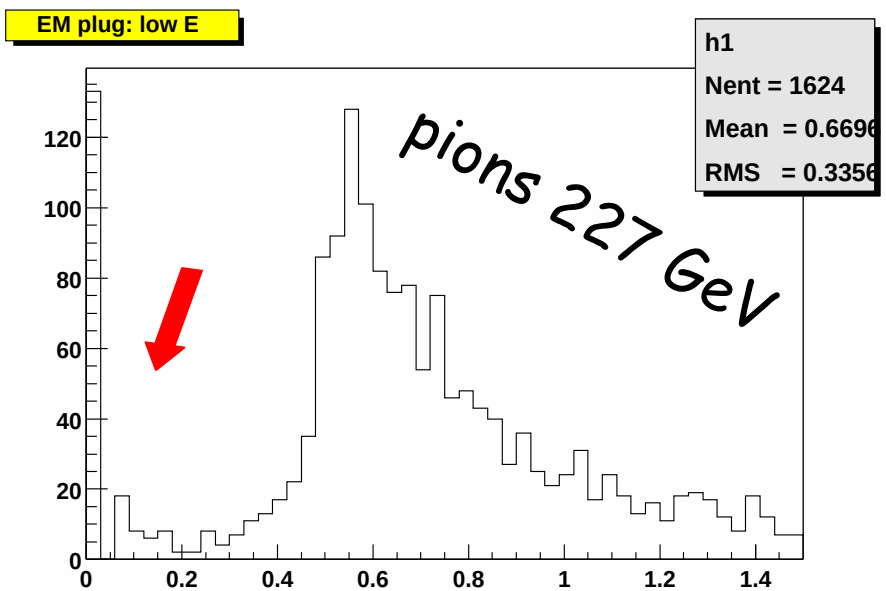


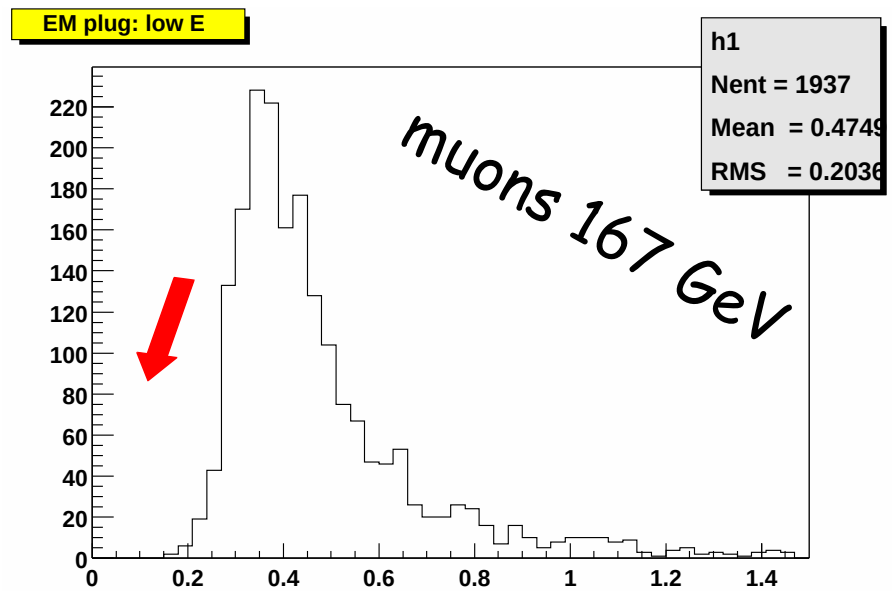
pions 8 GeV

TB data in the mip region

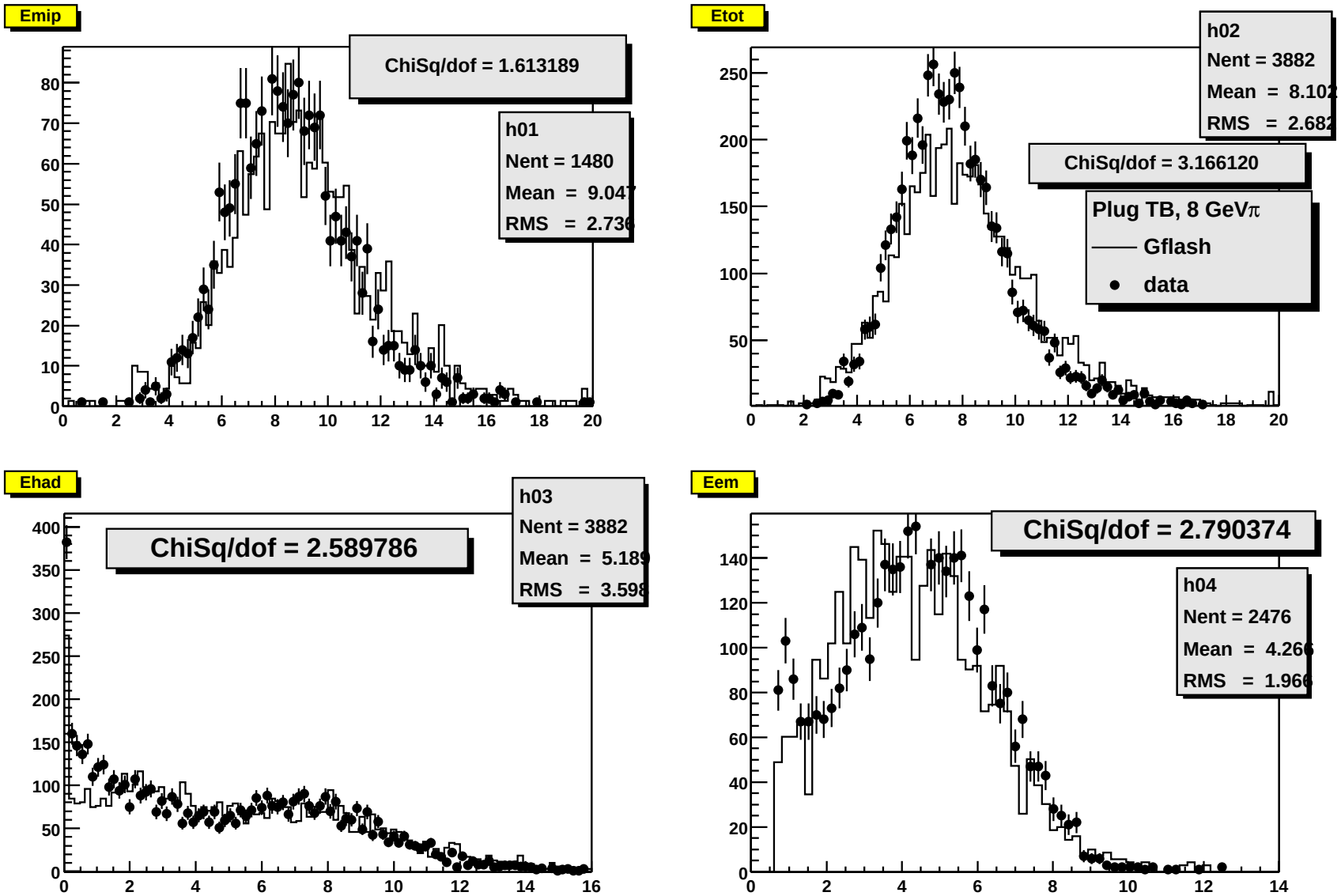




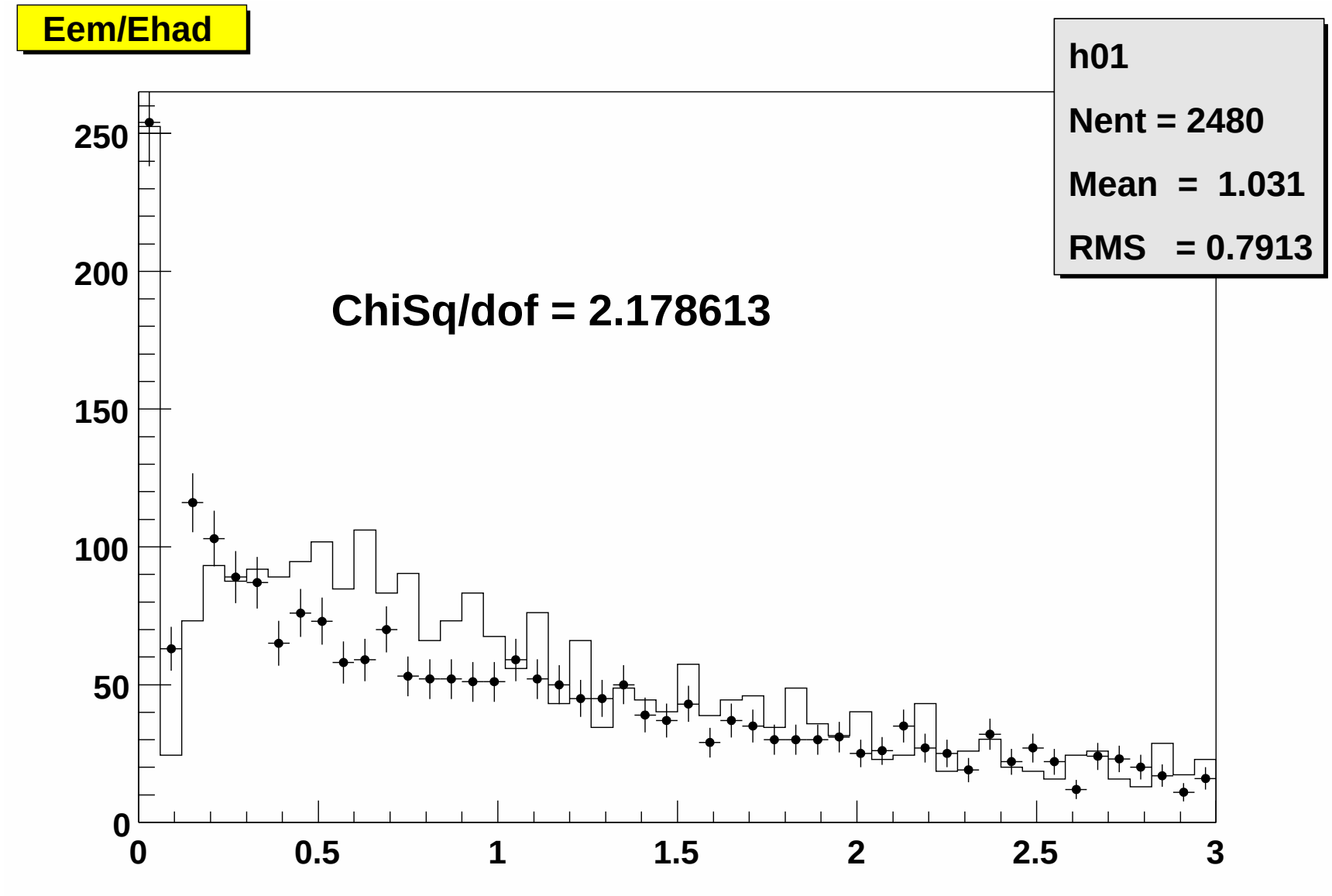




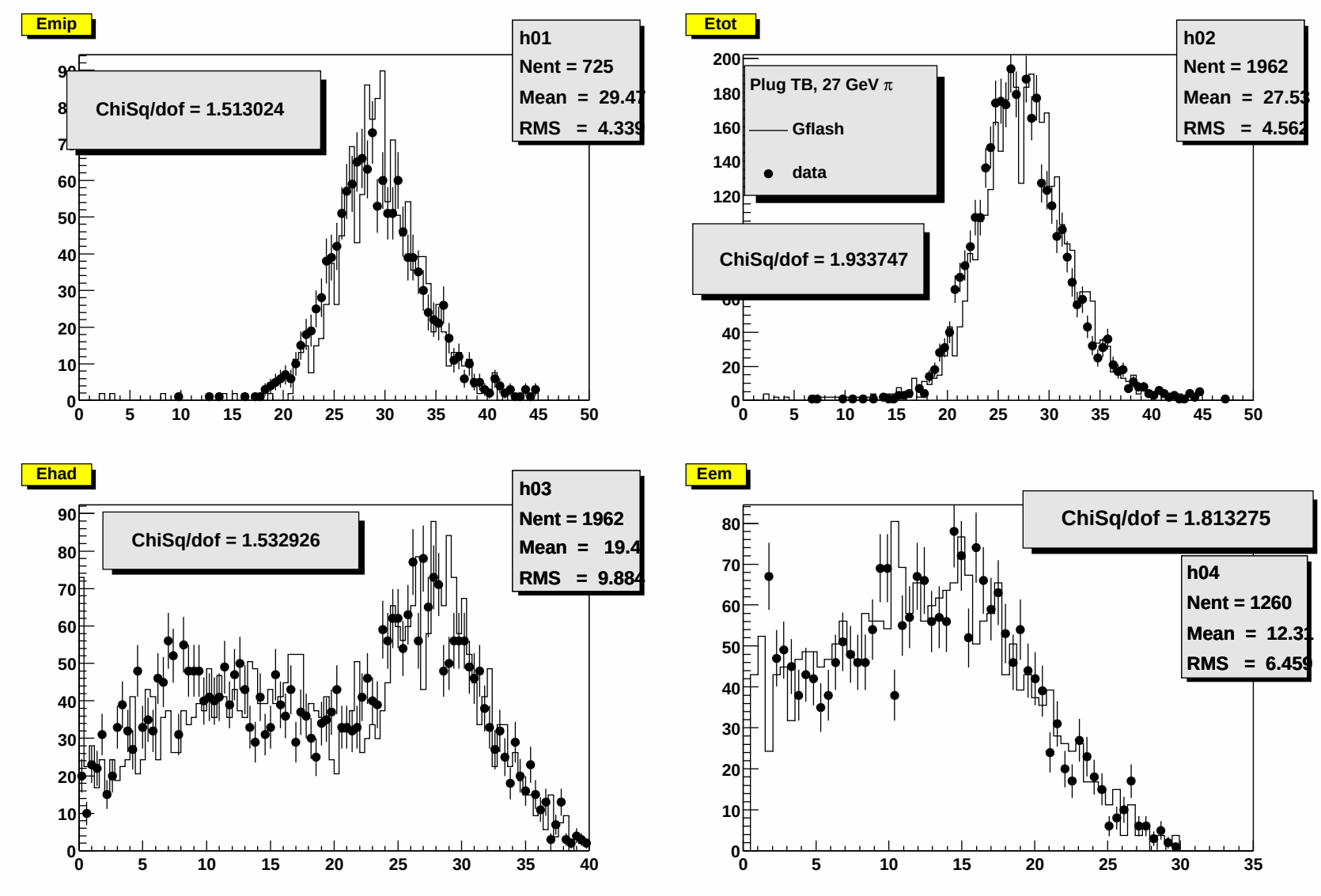
Tuning at 8 GeV (1)



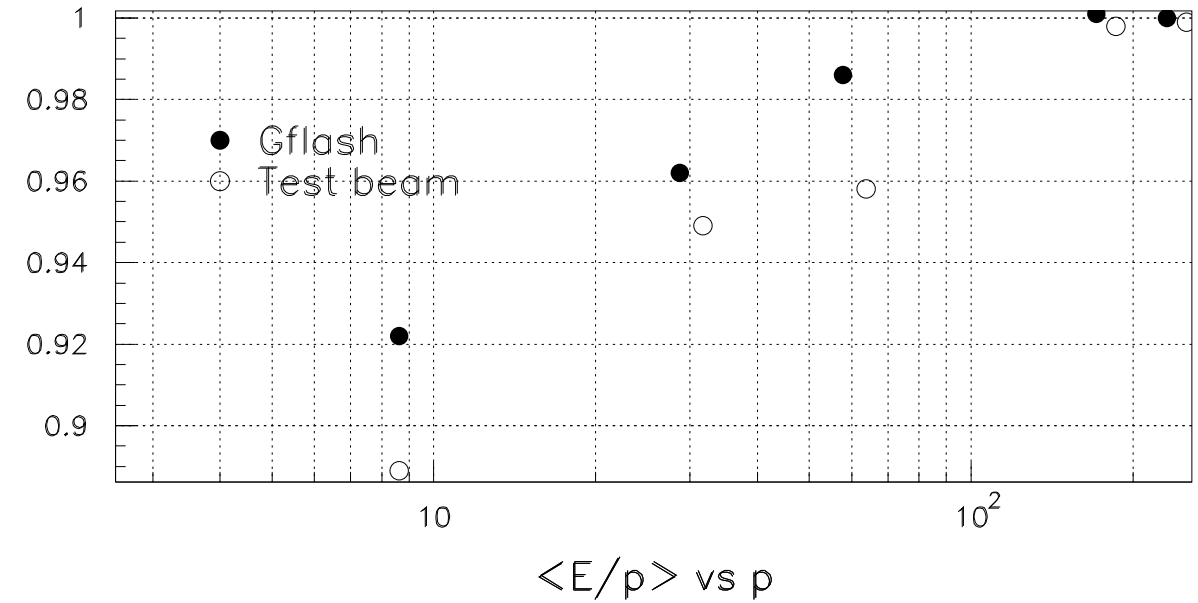
Tuning at 8 GeV (2)

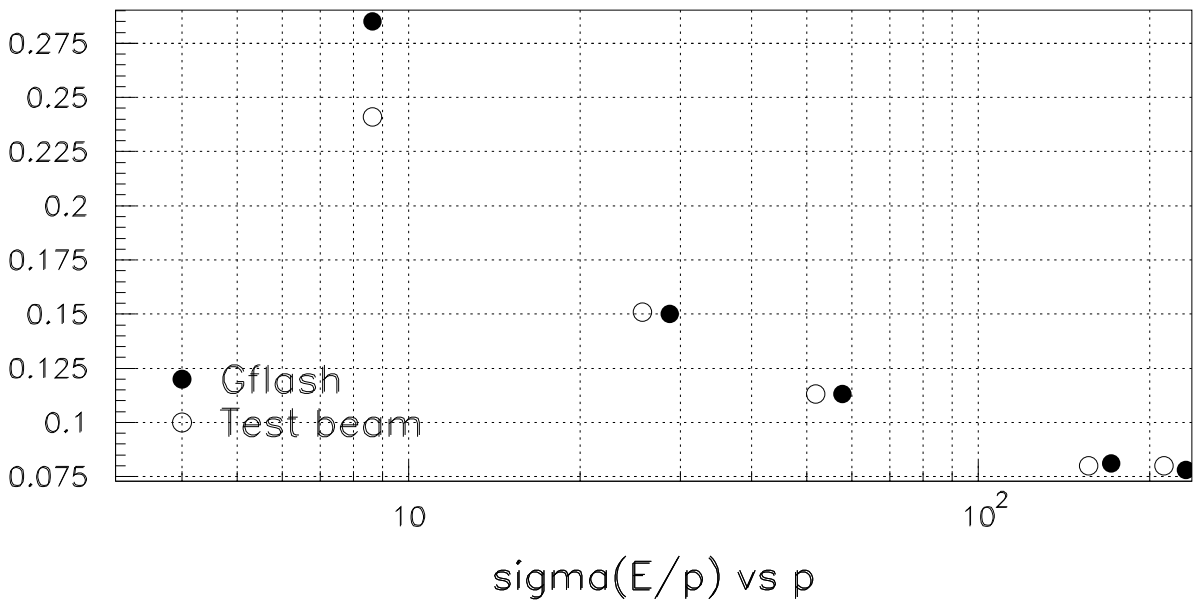


Tuning at 27 GeV



8–227 GeV summary





OK, but some tuning still needed at low energies