

TB data vs MC comparison - Intro (1)

- Big effort invested into validation of Geant4 versions and various physics lists with the TB data:
 - Geant4.9.2 vs. HEC TB data 2000-2001
 - Geant4.9.x vs. CTB2004 EMEC/HEC/FCAL
 - Geant4.9.1 vs. FCAL
 - Geant4.9.1 vs. CTB2004 LAr+Tile, mixed beam pions+protons according to the measured share
 - Geant4.9.[1|2] vs. Tile standalone, pions and protons separately
 - Geant4.9.3beta, testing new physics lists with pions

Introduction (2)

- Several variants of physics list investigated:

- QGSP (old default)
- QGSP+BERT (new default)
- FTFP (+BERT)
- QGSP/FTFP + BIC

- Comparisons performed in terms of

- response and resolution/RMS
- longitudinal and lateral hadronic shower profiles

