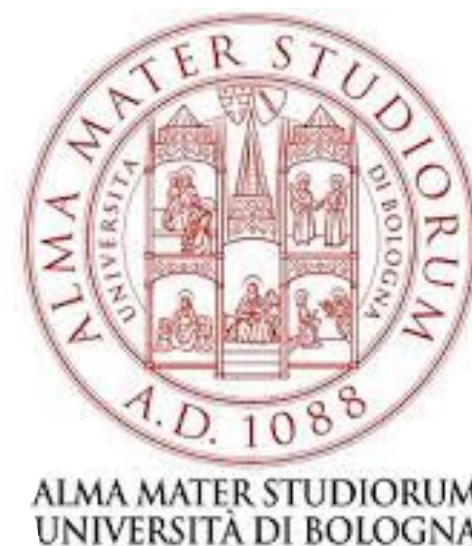




Updates from Reconstruction

Matteo Franchini



SHOE



- Documentation **update**

<http://arpg-serv.ing2.uniroma1.it/twiki/bin/view/Main/FOOTReconstruction>

- Currently 3 branch projects:

Shoe_geoDeveloping_v12.4	5 5
↳ 14db04c6 · add genfit · 6 days ago	
digitizer_v1.0	6 30
↳ 92da890b · Change method name accordingly to TAVTparGeo class (not used for the moment) · 5 days ago	
master default protected	
↳ a6eb9396 · add magnetic field testing function · 6 days ago	

Main and official version with the most stable and tested code.

SHOE



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Developing the digitisation and clustering for the vertex detector.

Christian Finck will present his work on this.

SHOE



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Developing a common interface and code between Simulation and Reconstruction to simulate the FOOT geometry.

Bologna & Milano
teamwork.

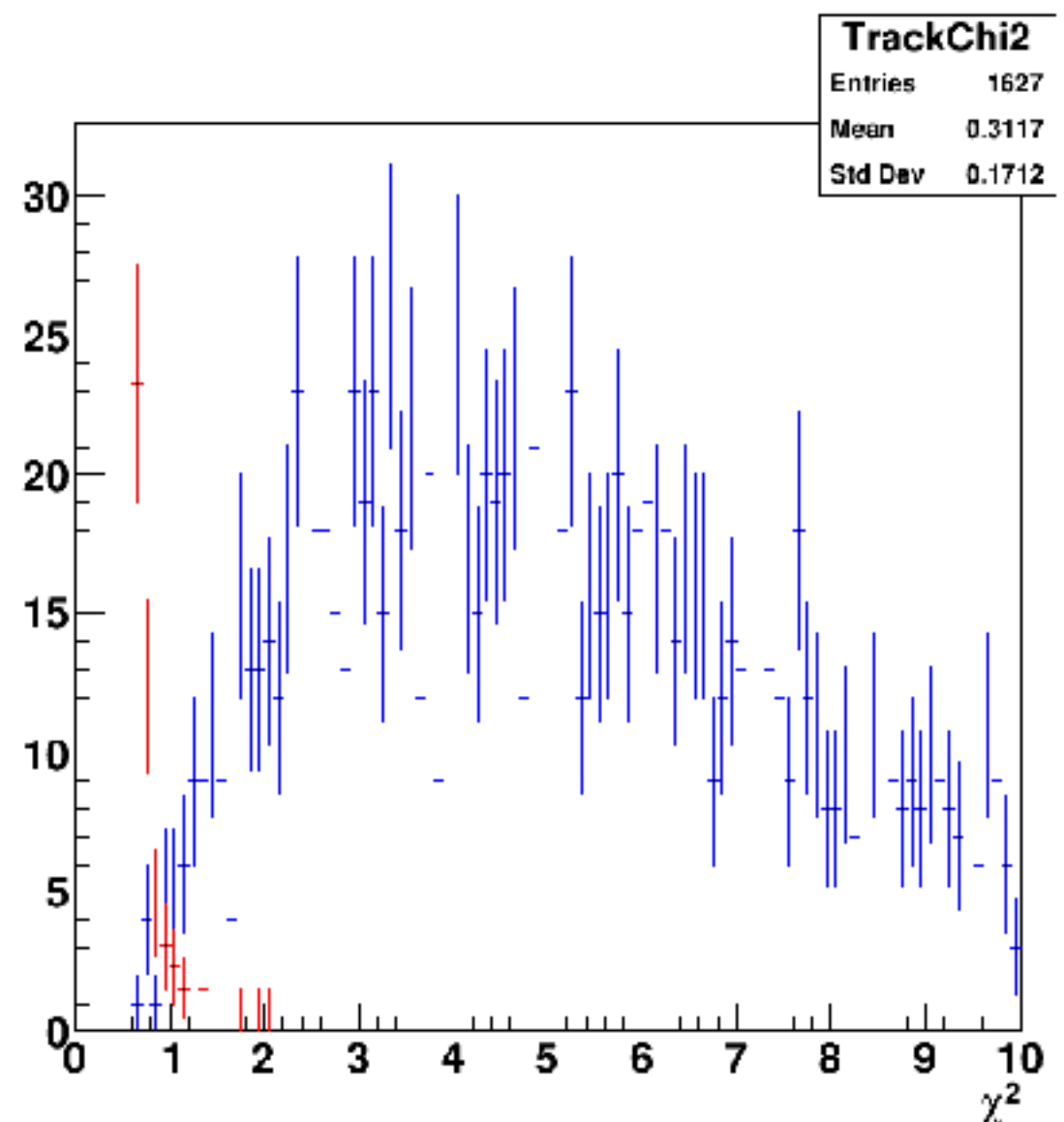
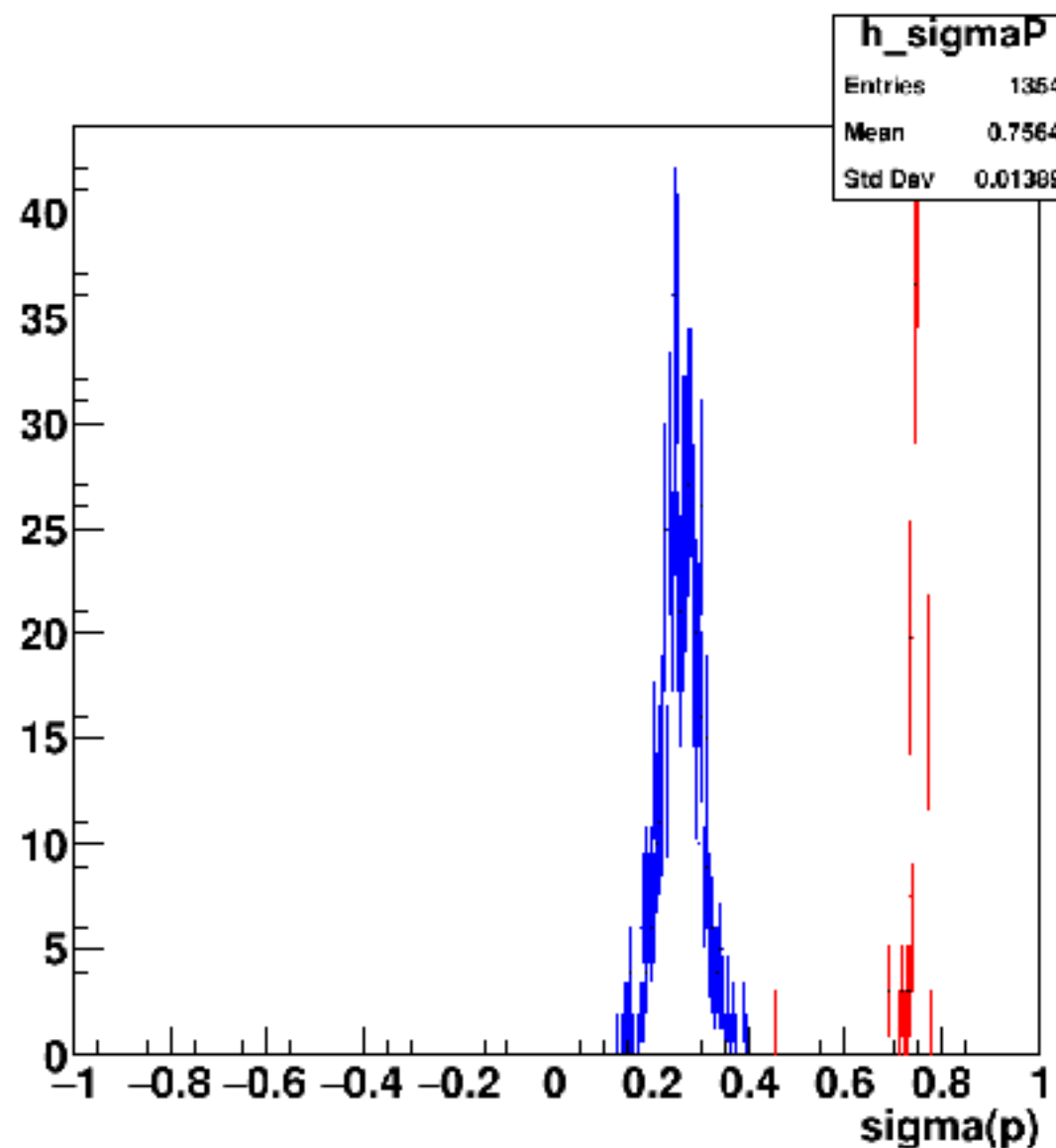
Geo Harmonisation

- **Goal:** reduce the probability of errors and mismatch in the geometry definition between simulation and reconstruction;
- **Strategy:**
 - Geometry described by SHOE objects;
 - One for each part of the detector;
 - SHOE object are able to generate the input parameter files needed by FLUKA (foot.geo, foot.inp, ecc...)
 - Material simulation is included as well.



Kalman Status

- Control plots comparison of different setup: Searching for basic optimisation.
- Example: **with** and **without** *Microstrip detector hits*.



Keep going !!!

