Overview of software activities

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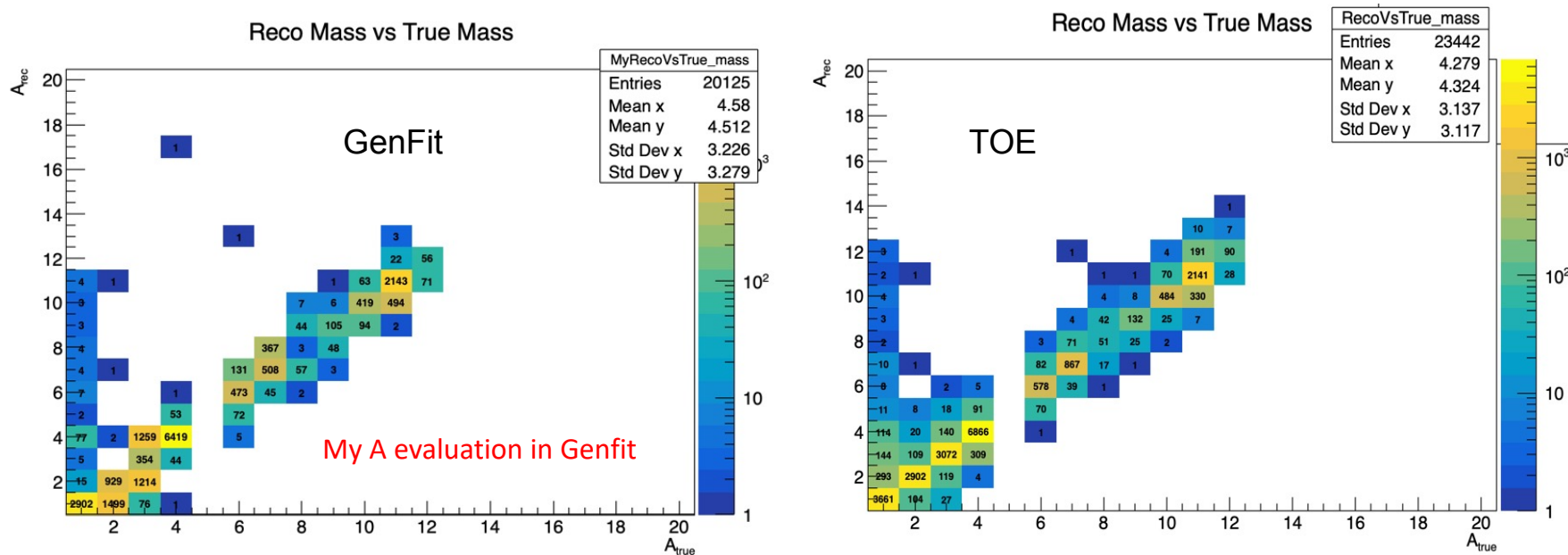
XII FOOT Collaboration Meeting

The last months..

➡ .. have been "still" busy …

– Global reconstruction either with TOE **_or_** GenFit

(or *TAGactNtuGlbTrackS* action)

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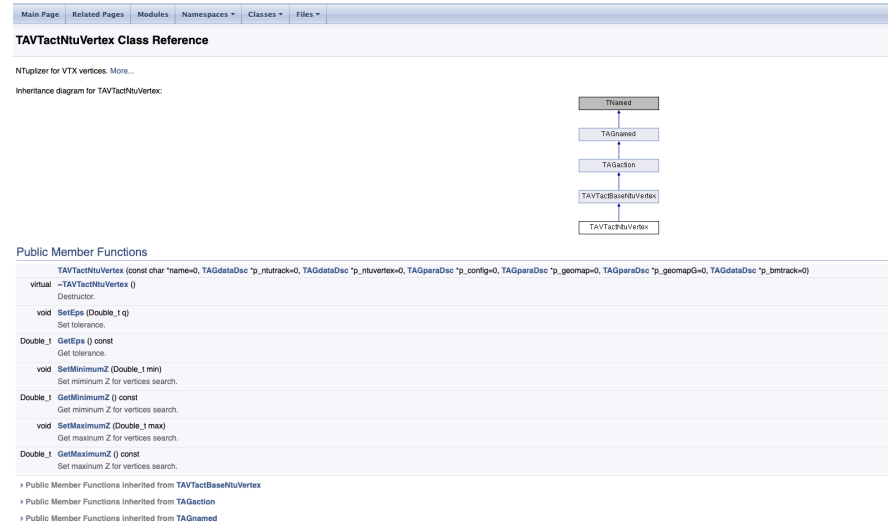
– Many bug fixes and code improvements

Status (i)

➡ We are near the Goal:

- All detectors are in shoe with all the interfaces

- Global framework can be used regardless the methods

- The development on the detector side

  • still need to compute calibration parameters for some campaigns
    (e.g.: TW for GSI2021)

  • still no "real" alignment for some detectors
    (e.g.: MSD for GSI2021)

  • still need improvements in some algorithms
    (e.g.: CAL clustering)

- Still no global alignement strategy (see last talk)

Status (ii)

➡️ Oxygen documentation ongoing, server hosted in Roma (ST, MSD, TW and CAL, not yet done)

➡️ Ready for global analysis mainly assess by MC data

➡️ Ready for GSI2021 analysis, but …
- still needing alignment for MSD (and dead map)
- still needing the calibration for TW

'final' considerations

Global Reconstruction is now available:

➡ Please using the latest version (master or newgeom) for reconstruction:

- Helping a lot for debugging and make the code more stable (many thanks to Yun, Giuseppe, Roberto Z…. who are our Beta testers)

➡ Please push your changes in the newgeom branch to make them available for everybody

➡ Avoid standalone executable (outside the framework) does not ease the integration in shoe

Pb of recurrent man power

What's ahead of us..

➡ Improve documentation:

- We still need to update the twiki page
  - http://arpg-serv.ing2.uniroma1.it/twiki/bin/view/Main/FOOTSoftware

- We still need to update the Doxygen documentation
  - http://arpg-serv.ing2.uniroma1.it/FOOTshoe/shoe/html/index.html

➡ Analyse GSI2021 data:

- still pending issues

➡ Prepare HIT2022 data taking

- Define the minimal expected setup for physics run (w or w/o trackers)
- Define MC simulations accordingly
- Dedicated session at the end of the meeting

Thanks for your attention