Overview of software activities

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XVI FOOT Collaboration Meeting

The last months..

➡ .. have been "still" busy …

– Many bug fixes and code improvements:

- **Update run file for CNAO2023**

- **New analysis framework**

- **New root geometry framework** (TAGgeometryConstructor: interfaced with Event Display and GenFit)

- **Adding passive material (VTX+ITR+MSD)**

- New interface for python (instead of C++ macros)

Status (i)

➡ We are near the Goal:

- All detectors are in shoe with all the interfaces (finally)

- The developments on the detector side

  • Calibration ongoing for CAL

  • Eta function study ongoing for MSD

➡ Data taking of CNAO2023:

  • Calibration on-going BM, VT, IT, etc…

  • Geometry survey/debugging

  • Updated simulation parameters

  • Alignment of BM, VT, MSD and TW (IT and DI not completed)

Status (ii)

➡ Doxygen documentation ongoing, server hosted in Roma (ST, MSD, CA not done)

➡ Update doc automatically from master branch to baltig site

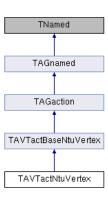➡ Possibility to add the documentation directly in git under study

Status (iii)

➡ Twiki server hosted in Roma (not available anymore

➡ Migration and update of the twiki directly on git

- https://baltig.infn.it/asarti/shoe/-/wikis/
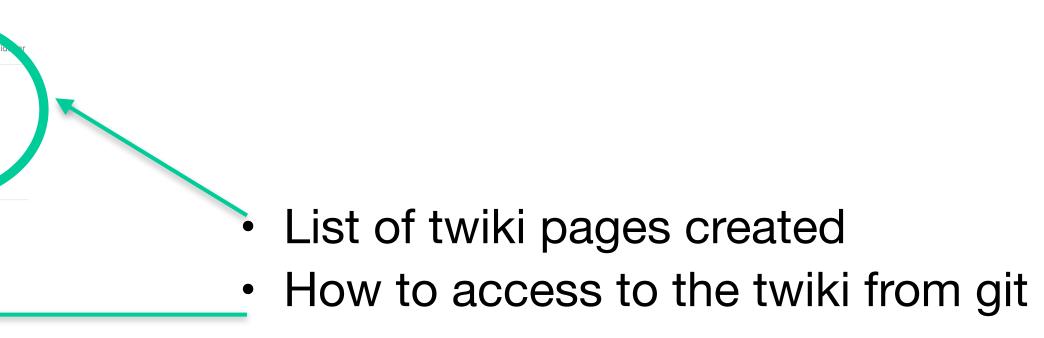- **Possibility for all the shoe developers to modify and update the twiki ([how to do it](#))**
- As for the doxygen documentation, the baltig/git server is more stable than the server in Rome
- The old twiki page is maintained at least until the end of the migration/update

- List of twiki pages created
- How to access to the twiki from git

'final' considerations

Local/Global Reconstruction is available:

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

(N.B.: The configuration/calibration/geometrical parameter files for

CNAO2023 campaign are available only in newgeom)

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

for everybody and advertise the collaboration about relevant changes

Pb of recurrent man power, need at least one guy per detector

Calibration/alignment done by the core team !

What's ahead of us..

➡ Improve documentation:

–   Update the twiki page, now all the shoe developers can do it

–   We still need to update the Doxygen documentation

–   Possibility to export the documentation directly on git under study

   •   http://arpg-serv.ing2.uniroma1.it/FOOTshoe/shoe/html/index.html

➡ Analyse GSI2021 - HIT2022 - CNAO2022/23 data:

–   Alignment of detectors ongoing for HIT and CNAO

–   Example in the new analysis available (see next talk)

Thanks for your attention