

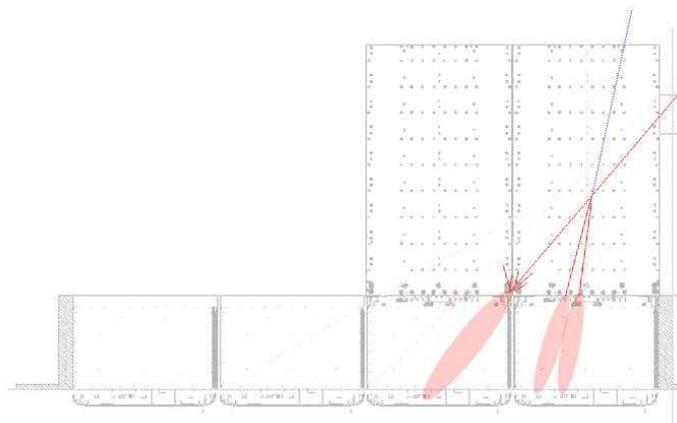
# GLAST CERN 2006 Beamtest



## Beamtest Release Status

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Beamtest Analysis - August 22<sup>nd</sup>, 2007



# History since BTR v6r0925p2

- Main goals
  - △ Synchronized with curren GlastRelease
  - △ Update and review jobOptions
  - △ debug...

# Updates since BTR v6r0925p2

## TKR

- △ Bari algorithms now calls the correct calibration constants for the ToT : TkrDigi
- △ Tkr Alignment : jobOption now calls the alignment when generating the MC
- △ Tkr Alignment : Leon fixed the alignment bug ...TkrDigi, TkrUtil, TkrRecon
- △ Tkr Alignment : jobOption option to use *bugged* or *simple* alignment

## ACD

- △ New jobOption option for Min/Max collection efficiency
- △ Bug fix for the Acd10Ids variable in the BeamtestTuple

# Updates since BTR v6r0925p2

## ● GEANT4

- △ Use recompiled Geant4 libraries
- △ G4HadronSim : bug fix, call correct positron processes when using LowEnergy physics
- △ G4HadronSim : bug fix, call correct path to low energy data files G4EMLOW3.0
- △ G4HadronSim : LowEnergy bug (no positron process !?) **FIXED today !**

## ● beamtest06

- △ committed : CUTower standalone simulation and BtDataBrowser
- △ committed : BtSysTest

# Status and future developments

- Show Stoppers : to be fixed before releasing
  - △ *Bug with the LowEnergy physics : **FIXED today !***
  - △ Memory leak for some events : big jump in the memory , may hide a bug...
  - △ Segfault found today caused by the new `AcUtil::AcGeometrySvc`
- Golden runs - see link
  - △ more beam spots tuned : now have all hadrons at 0degree and electrons at all angles and energy ready
  - △ Retrieve correct Cerenkov pressure for all runs, in particular SPS runs
- Future Developments
  - △ G4HadronSim : activate Auger and Fluorescence process for LowEnergy physics
  - △ beamtest06 : SPS beam line (check again Absorber/Converter and Scintillators)
  - △ upgrade to GEANT4 v9