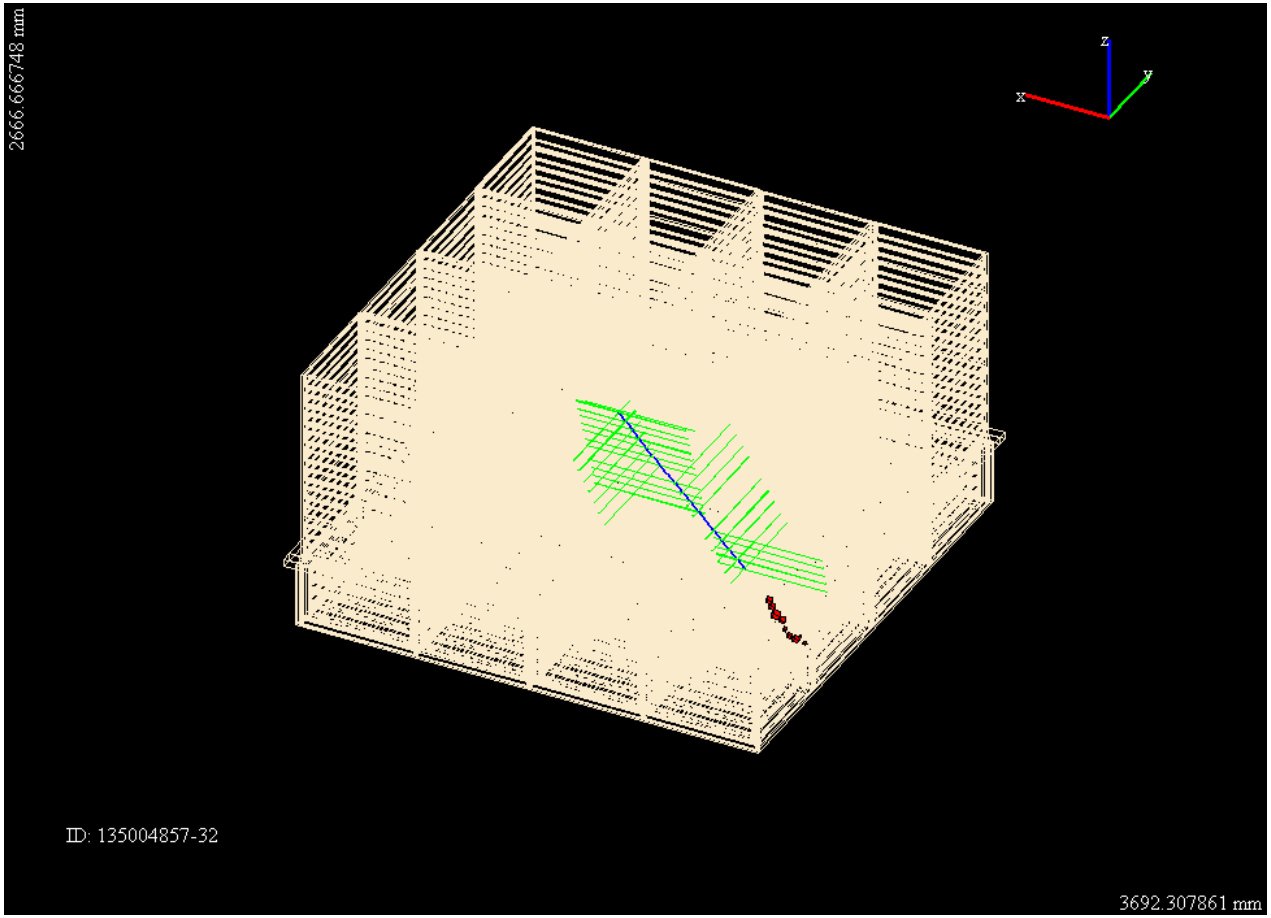
Data Taking And The Full LAT



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Science
Verification,
Analysis and
Calibrations
and
Physics
Verification and
Optimization
in the
Instrument
Science
Operations
Center

Data Taking Plans For The Full LAT

- December data taking:
  - Will happen late December
  - Calibrated data for analysis in early January
  - MC samples are available now!
  - Making new ones as the software evolve
    - But it's pretty stable now! Unless you are looking at ToT in Tower 15 ....
    - No excuse for waiting!
- January runs for the record with FSW:
  - Same hardware as in December
  - Different software!
- SLAC is busy with infrastructure work:
  - Need your help to do analysis!
  - Big Thanks to Nico and Monica!

We have 10 Italians at SLAC right now! :-)

Analysis Tasks I

- ACD:
  - New ACD SVAC variables:
    - Lots of new variables ....
      - » Useful for learning about the ACD
      - » And all at the ntuple level. No need for RootTree Analysis!
    - Are any useful variables missing?
    - Starting looking at the MC now will give us a heads up!
  - Learn how to use ROI as vetos:
    - Different thresholds in different tiles?
  - Mapping out the tile geometry with data
  - Tomography:
    - PHA signal vs location in a tile
  - ACD (in)efficiencies
  - Lots of things to do with the TKR-ACD intersection information!
    - Already available in the SVAC ntuple!
  - See also Eric's talk about the ACD!

Analysis Tasks II

- Alignment:
  - Inter-tower
  - Preliminary code in cvs from Tracy and Hiro:
    - AlignmentContainer
- CAL MIP finder:
  - Define MIPs in the CAL without using the tracker
  - Nice sample for TKR studies
  - .....
- Photon sample etc etc .....
- Baseline analyses for FSW:
  - Final runs for the record in January:
    - Same hardware as in December
    - Different software
  - Should define baseline analyses to make sure FSW works!
    - Science quantitites should not change with FSW!