

CALICE software status

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20 May 2011



CALICE test beam

- CALICE test beam:
 - W-AHCAL test beam at CERN 2010
 - SiW ECAL + DHCAL + TCMT test beam at FNAL 2010/2011
- Data backup
 - All data have been upload onto DESY dCache
 - Duplicated to Lyon GRID storage element

Converter status

- Converter has been updated, and works for both test beam data
- The raw binary data have been converted into slcio format (raw data)
- The new raw binary data from last month, which are for the combined SiW-ECAL and DHCAL test beam data.
- Few runs have been converted for checking the data, reconstruction, condition database, grid scripts tools... (commissioning)

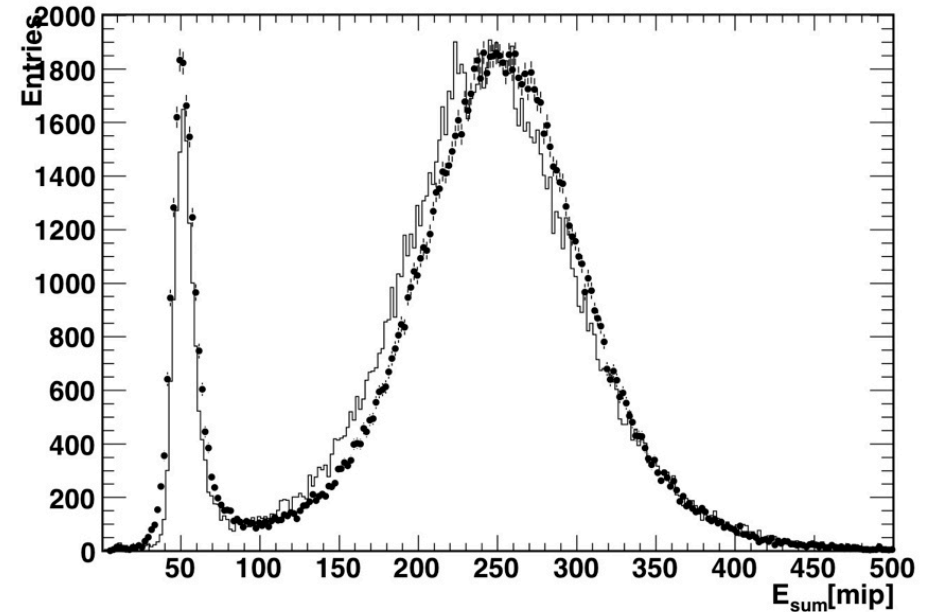
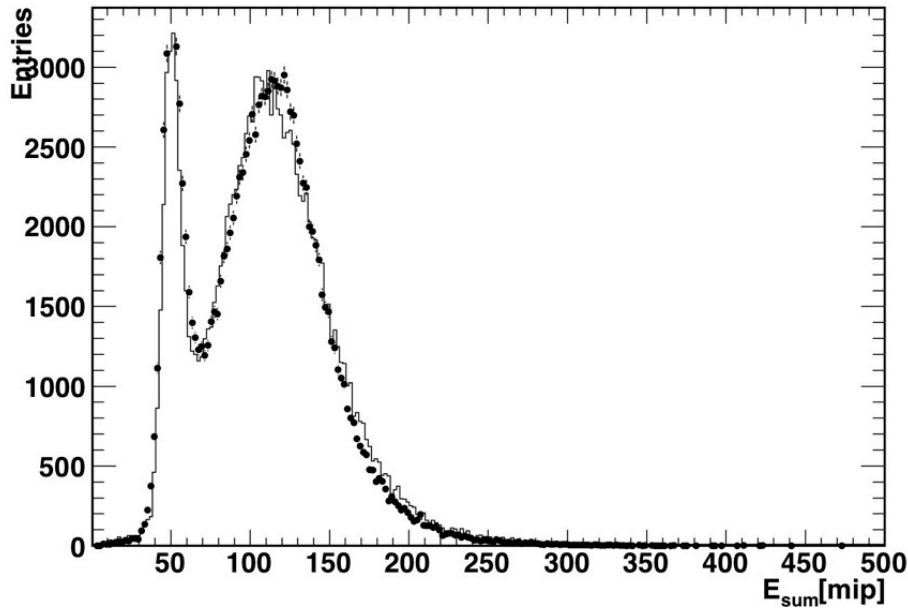
Reconstruction status

- W-AHCAL test beam at CERN 2010
 - Conditions database have been built
 - Reconstruction has been updated, and the data have been reconstructed
- SiW ECAL + DHCAL test beam at FNAL 2010/2011
 - Conditions database have been created
 - SiW-ECAL reconstruction commissioning
 - US DHCAL integration to CALICE reconstruction is in progress (Jacob)

Simulation and Digitization

- W-AHCAL test beam at CERN 2010
 - The new Mokka model has been created for W-AHCAL test beam
 - Simulation and digitization work
- SiW ECAL + DHCAL test beam at FNAL 2010/2011
 - Local simulation with GEANT4 works
 - Adapt to the Mokka framework in the future

W-AHCAL CERN 2010



- 4 GeV: MC (curve) - Run360774 (dot) (left)
- 9 GeV: MC (curve) - Run360823 (dot) (right)
- MIP calibration of 2010, Temperature corrected by -1.9%
- MPV ~ 817 MeV \rightarrow same as Steel simulation

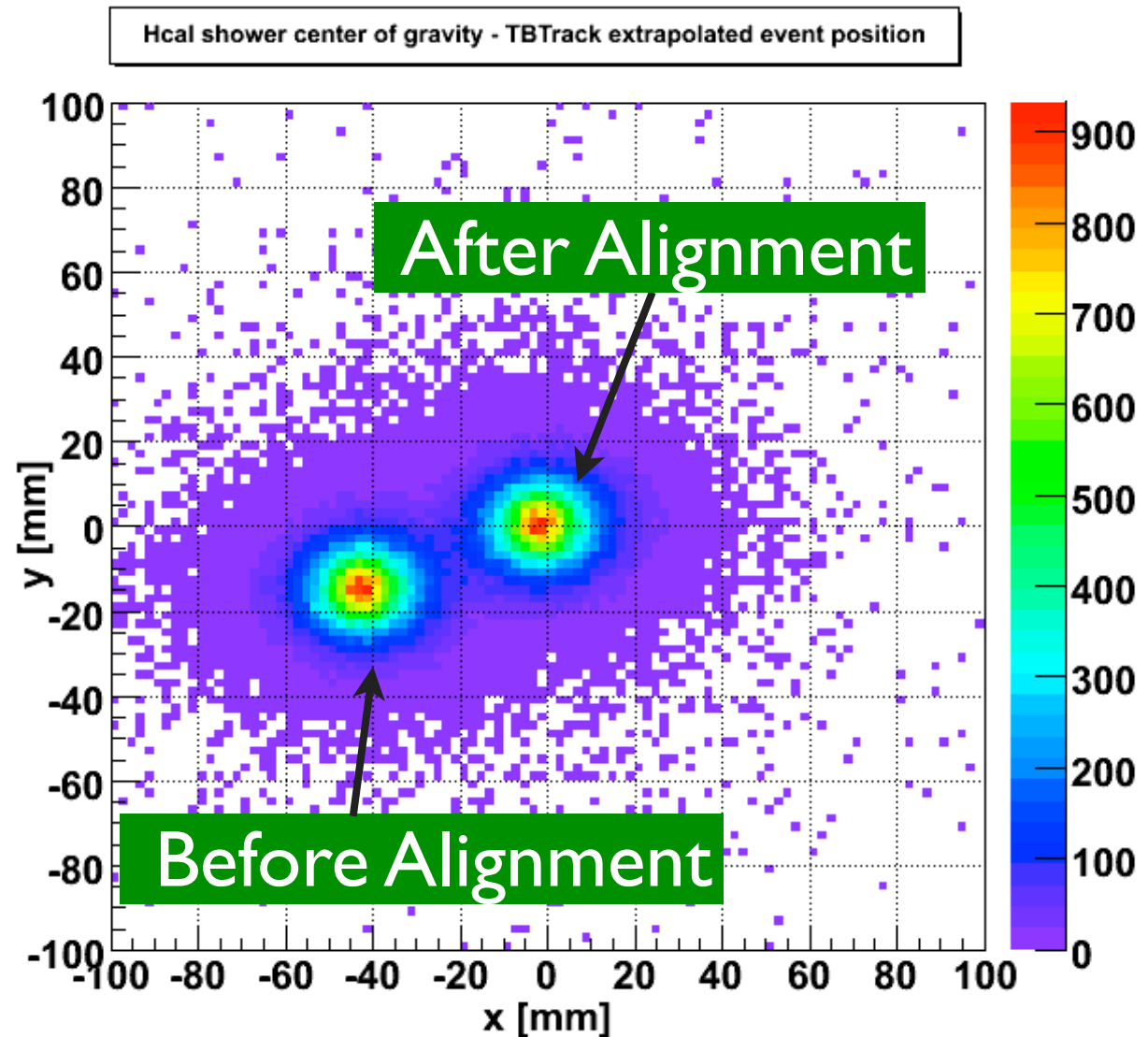
Both simulation and reconstruction software
work for W-AHCAL test beam 2010

TBTrack status

- TBTrack conditions data format class has been modified.
 - The multiple scattering depends on the beam momentum
 - To improve the fit, beam momentum was taken into account
 - A virtual layer was set too at the front of ECAL
- Both new codes and database constants folder are ready now for CERN 2007.
- For others run period, the conditions data need to be checked.
- In progress: alignment and drift velocity

AHCAL Alignment

- CERN 2007
- New alignment constants from Sebastian Weber (Univ. Wuppertal)
- In database: HEAD
- Available for run 330xxx 331xxx



Outlook

- Adapt to ilc v01-11, and working for a new release version of CALICE software.
- To complete the integration of ScECAL (TB FNAL 2008/2009)
 - More details in Katsu's talk
- Integration of DHCAL (TB FNAL 2010/2011)
 - To initialize the marlin processor for reconstruction
- SDHCAL status will be report by Ran & Gerald