



PMD Status
Offline week, June 22-25,2009

Basanta K. Nandi
IIT Bombay

Tasks:

Geometry:

Finalization of the detector geometry according to installation

Simulation:

Handling of the time information from hits during digitization

Accounting for detector response in the time information stored in digits

Implementation of track references

Verification of the event merging procedures

Correct treatment of the detector signal in the sdigits for event merging

Verification of the embedding procedures

Verification of Reco Params for cosmic, high flux, low flux and calibration

Calibration:

Implementation of the new object for calibration (hot channels + n. of events)

QA:

Implementation of run type

Implementation of simulation in QA checker

Implementation of reconstruction in QA checker

Implementation of reference data

Geometry

- Put all the electronics, cables and support structures
- more modular
- Can be switched on/off any uninstalled modules from “config.C” file

Status - complete

Simulation

- Handling of the time information from hits during digitization
- Accounting for detector response in the time information stored in digits
 - ❖ **Not yet implemented**
 - ❖ **Trying to complete it by July 15, 2009**

- Implementation of track references
 - ❖ **Completed**

Simulation

- Verification of the event merging procedures
- Correct treatment of the detector signal in the sdigits for event merging
- Verification of the embedding procedures
 - ❖ Not yet checked
 - ❖ Trying to finish it by July 30, 2009

- Verification of Reco Params for cosmic, high flux, low flux and calibration
 - ❖ Implemented in the program

Calibration:

Online:

- Hot channel search is implemented in DA code
- 1st RUN is used to find out the hot channels
- This information is being used for a set of runs
 - ❖ To be checked and validated
 - ❖ Will be completed by end of June, 2009
 - ❖ Preprocessor is appropriately modified.

Offline:

During the reconstruction, isolated cell search algorithm is implemented and kept in the PMD.Recpoint.root file. Once the framework is ready, we will develop booking the histos, extracting parameters and calculating the relative Gains.

QA:

- Implementation of run type
 - Implementation of simulation in QA checker
 - Implementation of reconstruction in QA checker
 - Implementation of reference data
-
- ❖ Not yet done
 - ❖ Need more time (Aug 15, 2009)