

Table of Contents

Calorimeter Detector Description.....	1
Identifiers.....	1
Reconstruction geometry.....	1
Simulation geometry.....	1
As built detector geometry.....	2

Calorimeter Detector Description

Return to the AtlasCalorimeter page.

This page describes the Identifiers and Detector Description used by the calorimeter simulation and reconstruction software.

Identifiers

Contact Persons : Fabienne Ledroit, Arnaud Lucotte

Identifiers contain the knowledge about the local organization of a readout in a compact form. There are many kinds of identifiers. They include Offline Identifiers, Online Identifiers, HV Identifiers etc. There are associated tools that various services using the knowledge within an identifier. This includes:

- fast navigation between the various kinds of identifiers
- cell neighbors (for this the contact person is Sven Menke). The use of cell neighbors is best explained by looking at example usage in TopologicalClustering.

Follow the link below for more information on:

- Offline Identifiers [↗](#)
- Online Identifiers [↗](#)
- LAr High Voltage Identifiers [↗](#)
- Package structure :
 - ◆ All offline Identifiers and Helpers (including Tiles) are grouped in the package Calorimeter/CaloIdentifier [↗](#)
 - ◆ The hardware identifiers and the Cabling service are LAr specific and therefore located in : LArCalorimeter/LArIdentifier [↗](#)(helpers) and LArCalorimeter/LArTools [↗](#)(CablingService)

Reconstruction geometry

Contact Person : Joe Boudreau

- all the interface to the calorimeter reconstruction goes via the CalorimeterDetectorDescription package
- behind the scene, the geometry is built by the LArDetectorDescription and TileDetectorDescription packages
- for combined track reconstruction, the CombinedReconstructionInterface was implemented (release 11)

Simulation geometry

Contact Person : Joe Boudreau

- simulation page [↗](#)

As built detector geometry

Contact Person : Joe Boudreau

- The requirements were presented at the 1rst meeting. Slides are here [↗](#)

Major updates:

-- Main.cbourdar - 17 May 2005

%RESPONSIBLE% SriniRajagopalan

%REVIEW%

This topic: AtlasArchive > CaloDetectorDescription

Topic revision: r13 - 2008-04-28 - StephenHaywood



Copyright &© 2008-2020 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.

Ideas, requests, problems regarding TWiki? Send feedback