

Table of Contents

9.1 Introduction to Advanced Tools and Tasks.....	1
Information Sources.....	1
Review status.....	1

9.1 Introduction to Advanced Tools and Tasks

Complete:

Detailed Review status

This chapter presents some of the more advanced tools in CMSSW and tasks involved in analysis.

Common EDM Utilities summarizes the standalone utilities available for checking and searching the components of your CMSSW application.

Common Containers for EDM Objects describes containers for objects produced by CMSSW reconstruction that must be stored according to the Event Data Model (EDM), and inserted into an Event. It covers standard, OwnVector and AssociationMap containers.

Some common data types in CMSSW (GlobalPoint, GlobalVector) summarizes the constructors and functions of two commonly used data types, GlobalPoint and GlobalVector.

Writing your own framework objects to a file is a tutorial which describes how to add data to the event. It covers the steps of creating a package to hold the C++ class for the data, and then how to create an EDProducer which is a framework module that creates the data and then places it into the Event.

Navigating the CMS Detector Geometry discusses the standard configuration files for XML ideal geometry access and points to the POOL Object Relational Access page which provides information on the parameter set variables needed by this means of access.

Application of Alignment and Calibration Constants explains how to simulate the effect of misalignment and miscalibration in Monte Carlo studies. In particular:

- how to misalign the tracker geometry according to misalignment scenarios;
- how to apply custom (mis)alignment to the tracker geometry;
- how to miscalibrate the rechit energies in the ECAL starting from uncalibrated rechits;
- how to miscalibrate the rechit energies starting from already produced rechits;

Finding the Beam Spot describes how to determine the beam spot position in simulated events.

Information Sources

Review status

Reviewer/Editor and Date (copy from screen)	Comments
AnneHeavey - 20 Dec 2006	Created page, provided initial content
JennyWilliams - 08 Jan 2007	Added WorkbookEDMTutorialProducer page to listings

Responsible: SudhirMalik

Last reviewed by: KatiLassilaPerini - 28 Feb 2008

This topic: CMSPublic > WorkbookIntroAdvTools

Topic revision: r15 - 2012-09-20 - KatiLassilaPerini



Copyright &© 2008-2019 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.

Ideas, requests, problems regarding TWiki? Send feedback