



Contribution ID: 127

Type: **Parallel**

The LHCb Data Management System

Monday, May 21, 2012 2:45 PM (25 minutes)

The LHCb Data Management System is based on the DIRAC Grid Community Solution. LHCbDirac provides extensions to the basic DMS such as a Bookkeeping System. Datasets are defined as sets of files corresponding to a given query in the Bookkeeping system. Datasets can be manipulated by CLI tools as well as by automatic transformations (removal, replication, processing). A dynamic handling of dataset replication is performed, based on disk space usage at the sites and dataset popularity. For custodial storage, an on-demand recall of files from tape is performed, driven by the requests of the jobs, including disk cache handling.

We shall describe all the tools that are available for Data Management, from handling of large datasets to basic tools for users as well as for monitoring the dynamic behaviour of LHCb Storage capacity.

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Session Classification: Distributed Processing and Analysis on Grids and Clouds

Track Classification: Distributed Processing and Analysis on Grids and Clouds (track 3)