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## **LCG Persistency Framework (POOL, CORAL, COOL) - Status and Outlook**

*Tuesday, May 22, 2012 5:00 PM (25 minutes)*

The LCG Persistency Framework consists of three software packages (POOL, CORAL and COOL) that address the data access requirements of the LHC experiments in several different areas. The project is the result of the collaboration between the CERN IT Department and the three experiments (ATLAS, CMS and LHCb) that are using some or all of the Persistency Framework components to access their data. The POOL package is a hybrid technology store for C++ objects, using a mixture of streaming and relational technologies to implement both object persistency and object metadata catalogs and collections. POOL provides generic components that can be used by the experiments to store both their event data and their conditions data. The CORAL package is an abstraction layer with an SQL-free API for accessing data stored using relational database technologies. It is used directly by experiment-specific applications and internally by both COOL and POOL. The COOL package provides specific software components and tools for the handling of the time variation and versioning of the experiment conditions data.

This presentation will report on the status and outlook in each of the three sub-projects at the time of CHEP2012. It will focus on COOL and POOL, as several new features of CORAL are the subject of other presentations at this conference.

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