

## **Digital curation and preservation of large and complex scientific objects: Research Data Curation - Crafting (Open) Data Services at CERN**

*Friday, 19 June 2015 12:10 (35 minutes)*

The preservation and sharing of research data changes the scholarly communication environment and presents new challenges to both researchers and data librarians. This talk gives an overview of the ongoing data analysis preservation activities at CERN. We present the recently launched CERN Open Data Portal and the Data Analysis Preservation Framework, a tool for long-term preservation of data analyses which is currently under development. The services are being built in close collaboration with the LHC experiments, with the aim of being progressively integrated in scientists' daily research processes and workflows. We point out challenges faced during data modelling, high-level knowledge capture, long-term preservation of captured assets, as well as scenarios for their future reuse. Exchanging the lessons learned during service implementation in the domain of particle physics with similar activities in other scientific disciplines and research environments, we hope, will be mutually beneficial.

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