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Evolving SWAN towards an Analysis Facility system

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With the HL-LHC, the HEP community will experience orders of magnitude more data at a multi-exabyte scale. To prepare for such unprecedented scientific data collection, the different research sites are combining their diverse resources into integrated Analysis Facilities' systems.

SWAN, CERN's Service for Web based ANalysis, is following this approach, evolving from a plain notebook-based service into a fully fledged Analysis Facility. This allows it to serve as a simple to use, single entry point to the multiple and heterogeneous storage, software and computational resources provided to CERN's research community.

This presentation will focus on the challenges of integrating such different resources and the future direction of the service, including the increasing role of sync&share in the scientific workflows.

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