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Type: **Parallel Talk**

Data Analysis with PROOF

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In this talk we describe the latest developments in the PROOF system. PROOF is the parallel extension of ROOT and allows large datasets to be processed in parallel on large clusters and/or multi-core machines. The recent developments have focused on readying PROOF for the imminent data analysis tasks of the LHC experiments. Main improvements have been made in the areas of overall robustness and fault tolerance, multi-user scheduling, generic processing, e.g. Monte Carlo's, and optimizations for many-core architectures. ALICE is deploying PROOF for prompt reconstruction and analysis on the CERN Analysis Facility (CAF) and ATLAS if focusing on Tier-3 deployment.

Primary authors: Dr RADEMAKERS, Fons (CERN); Dr GANIS, Gerardo (CERN); Mr IWASZKIEWICZ, Jan (CERN)

Presenter: Dr GANIS, Gerardo (CERN)

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