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End-user data analysis at the LHC

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The Large Hadron Collider (LHC), located at CERN in Geneva, stands as one of the most monumental scientific experiments in human history. This remarkable machine facilitates approximately 40 million particle collisions every second, generating an astronomical amount of data. Even with rigorous filtering of collision events, the data retained for subsequent analysis remains staggering in scale.

In addition to the recorded data, conducting a successful physics analysis demands an extensive set of simulations that can be compared to the recorded events. In this presentation, we will delve into our approach to incorporating external resources, such as the NEMO cluster in Freiburg, into our local batch system. This integration greatly enhances accessibility for the complex workflows required for physics data analyses.

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