Contribution ID: **208**   Type: **Sectional**

Modern SQL and NoSQL database technologies for the ATLAS experiment

Thursday 28 September 2017 09:00 (30 minutes)

Structured data storage technologies evolve very rapidly in the IT world. LHC experiments, and ATLAS in particular, try to select and use these technologies balancing the performance for a given set of use cases with the availability, ease of use and of getting support, and stability of the product. We definitely and definitively moved from the "one fits all"(or "all has to fit into one") paradigm to choosing the best solution for each group of data and for the applications that use these data. This talk describes the solutions in use, or under study, for the ATLAS experiment and their selection process and performance.

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Session Classification: Plenary

Track Classification: Non-relational Databases and Heterogeneous Repositories