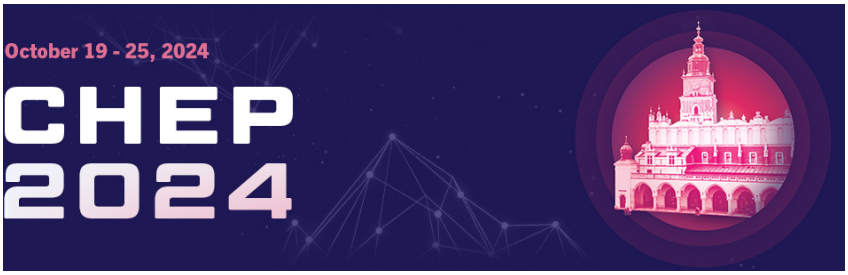

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Efficient metadata management with the AMI ecosystem

Wednesday 23 October 2024 17:27 (18 minutes)

The ATLAS Metadata Interface (AMI) is a comprehensive ecosystem designed for metadata aggregation, transformation, and cataloging. With over 20 years of feedback in the LHC context, it is particularly well-suited for scientific experiments that generate large volumes of data.

This presentation explains, in a general manner, why managing metadata is essential regardless of the experiment's scale. It then presents the different AMI ecosystem's components and their main functionalities, particularly the Web interfaces for searching data based on metadata criteria. Finally, it discusses the deployment of a functional demo, its subsequent scaling up, and how to integrate it into a data production system.

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