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The H1 data preservation project (H1 Collaboration)

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The H1 data preservation project was started in 2009 as part of the global data preservation in high-energy physics (DPHEP) initiative. In order to retain the full potential for future improvements, the H1 collaboration aims for level 4 of the DPHEP recommendations, requiring the full simulation and reconstruction chain to be available for analysis. A major goal of the H1 project is therefore to provide secure, long-lived and validated access to the H1 data and analysis software, which is realised in collaboration with DESY-IT using virtualisation techniques. By implementing such a system, it is hoped that the lifetime of the unique HERA data will be extended, providing the possibility for novel analysis in the near future. Improvements may come from for example the development of new experimental techniques or the implementation of currently unavailable higher order Monte Carlo corrections. The preservation of data and software is performed alongside a consolidation programme of all (non-)digital documentation since the beginning of the H1 collaboration in the early 1980s. This presentation will introduce idea, structure and status of the H1 data preservation program.

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