

## **openPMD - A Scientific, Community Meta-Data Standard**

*Thursday 4 November 2021 16:40 (25 minutes)*

The open standard for particle-mesh data (openPMD) is a FAIR community standard. openPMD meta-data adds scientific self-description in a machine-actionable format to data sets, which allows sharing data processing frameworks, chaining data through simulations and designing long analysis pipelines. Developed in the open as a FAIR data standard, openPMD is based on portable and scalable file formats such as HDF5 and ADIOS2, among others. In this talk, we will present the community principles, existing implementations, recent research results for file and file-less analysis, and possible integration directions.

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**Session Classification:** Talks