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Provenance model for Lattice QCD

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Workflow management has become an important topic in many research communities. Here, we focus on the particular aspect of provenance tracking. We follow the W3C PROV standard and formulate a provenance model for Lattice QCD that includes the ensemble-generation and the measurement parts of the Lattice QCD workflow. Since many important provenance questions in our community require extensions of this model, we propose a multi-layered provenance approach that combines prospective and retrospective elements.

Topical area

Primary authors: LUDÄSCHER, Bertram; BALI, Gunnar (University Regensburg); KLETTKE, Meike; WEISHÄUPL, Simon; AUGE, Tanja; WETTIG, Tilo (University of Regensburg); SÖLDNER, Wolfgang

Presenter: WETTIG, Tilo (University of Regensburg)

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