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Case study of data/metadata flow at Laser Particle Accleration as use case of HELIPORT

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Within HELIPORT, providing guidance to scientific projects and workflows according to the FAIR principles within the entire research experiment lifecycle, the domain- and lab-specific workflows need to be embedded. To do so, we have analyzed the established scientific workflow during experiments in the context of laser-driven particle acceleration, with emphasis on data and metadata sources and their respective occurrences. Among the instances where either machines or humans generate or process data, we have identified where human input or interaction is mandatory and will prevail, as well as chances for automation –still under supervision and control by scientists. We present our strategy for a system of inter-connected databases and management software modules, interfacing to HELIPORT.

Type

Talk

Primary authors: PAPE, David (HZDR); SCHLENVOIGT, Hans-Peter (HZDR); TIPPEY, Kristin Elizabeth (HZDR); WAGNER, Nicole (HZDR); KNODEL, Oliver (Helmholtz-Zentrum Dresden-Rossendorf); BOCK, Stefan (HZDR); GRUBER, Thomas (HZDR); HORN, Wolfgang (HZDR)

Presenter: SCHLENVOIGT, Hans-Peter (HZDR)

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