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Conceptualization of a Scientific Software Innovation Institute for HEP and a Community Roadmap Process for Software and Computing R&D

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Realizing the physics goals of the planned or upgraded experiments in high-energy physics (HEP) over the next 10 years will require the HEP community to address a number of challenges in the area of software and computing. In order to identify and prioritize research and development in scientific software and computing infrastructure, a broad HEP community planning process is currently underway. The aim is to produce a Community White Paper (CWP) which will describe the community strategy and a roadmap for HEP software and computing R&D for the 2020s – an activity organized under the umbrella of the HEP Software Foundation. In this talk, we describe the current status of the CWP process. We also discuss the conceptualization of a possible NSF Scientific Software Innovation Institute for high-energy physics designed to address software and computing challenges for the HL-LHC.

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