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Progress on the development of the science case and simulation of nuSTORM

The Neutrinos from Stored Muons, nuSTORM, facility has been designed to provide intense neutrino beams with well-defined flavour composition and energy spectra. By using neutrinos from the decay of muons confined within a storage ring, a beam composed of equal fluxes of electron- and muon-neutrinos can be created for which the energy spectrum can be calculated precisely. The case for the nuSTORM facility rests on three themes: precision neutrino scattering studies; searches for new physics; and its role as a test bed for the development of high energy muon beams of high brightness. The status of the development of the physics case for nuSTORM will be described along with a summary of progress on the design and simulation of the facility.

Secondary track

T13 - Accelerators for HEP

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