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The impact of energy frontier DIS measurements on future hadron collider physics (HL-LHC and FCC-hh)

Wednesday 4 May 2022 09:20 (20 minutes)

In this talk we discuss the impact of the physics programme at the LHeC and FCC-he on the respective hh ones, the HL-LHC and the FCC-hh, and the synergies between both collision modes. We address precision SM measurements, Higgs physics, high-mass searches, parton densities, small-x physics and heavy ion physics with eA input, extending the discussions in the 2020 LHeC Conceptual Design Report update [1].

[1] P. Agostini et al. (LHeC Study Group), The Large Hadron-Electron Collider at the HL-LHC, J. Phys. G 48 (2021) 11, 110501, e-Print: 2007.14491 [hep-ex].

Submitted on behalf of a Collaboration?

Yes

Authors: ARMESTO PEREZ, Nestor (Universidade de Santiago de Compostela (ES)); BRITZGER, Daniel (Max-Planck-Institut für Physik München)

Presenter: BRITZGER, Daniel (Max-Planck-Institut für Physik München)

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