

Precision QCD at the LHeC and the FCC-eh

Tuesday, 28 July 2020 18:30 (30 minutes)

The LHeC and the FCC-eh are the cleanest, high resolution microscopes that the world can build in the nearer future. Through a combination of neutral and charged currents and heavy quark tagging, they will unfold the parton structure of the proton with full flavour decomposition and unprecedented precision. In this talk we will present the most recent studies on the determination of proton parton densities as contained in 2020 White Paper on the LHeC. We will also demonstrate the prospects for a per mille accuracy determination of the strong coupling constant, both through scaling violations in inclusive DIS and jet production, as well as their combination.

I read the instructions

Secondary track (number)

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