

# XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



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## Determination of the Parton Densities in the Proton at the LHeC

*Wednesday, 14 April 2021 10:50 (18 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 LHeC Conceptual Design Report update [1].

[1] LHeC Collaboration and FCC-he Study Group, P. Agostini et al., e-Print: 2007.14491 [hep-ex].

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