



Contribution ID: 1124

Type: Parallel Talk

## Overview of the LHeC and FCC-he accelerator concepts

*Thursday, 7 July 2022 14:45 (20 minutes)*

In this talk the current status and plans are presented on the LHeC accelerator concept, towards the new HEP strategy update in about 5 years time. We review the ERL and the IR including the possibility of a joint  $eh/hh$  interaction region. The talk also covers FCC-he and refers to a separate presentation of the ERL demonstration facility PERLE. It is based on the comprehensive Conceptual Design Report update [1] and the recent work [2].

[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].

[2] K. D. J. Andre et al., An experiment for electron-hadron scattering at the LHC, Eur. Phys. J. C 82 (2022) 1, 40, e-Print: 2201.02436 [hep-ex].

### In-person participation

Yes

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**Session Classification:** Accelerators: Physics, Performance, and R&D for future facilities

**Track Classification:** Accelerators: Physics, Performance and R&D for future facilities