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Electroweak physics at FCC-eh and LHeC

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The potential of the future electron-proton collider facilities LHeC and FCC-eh for electroweak (EW) physics is studied using simulated neutral-current and charged-current DIS cross section data.

These measurements will allow for high precision determinations of the parameters of the EW theory, such as the weak boson masses and the couplings of the light quarks to the Z boson. The potential for precision measurements of the ρ and κ parameters, which are parameters particularly sensitive to additional contributions beyond the Standard Model formalism, are explored.

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