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Hadronic effects in parity-violating electron-proton scattering at low energies (I)

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Precision low-energy experiments in electroweak electron-proton interactions are a vital complement to direct tests of the Standard Model. They also give information about the structure of the proton. In parity-violating electron-proton scattering, recent results reported by the Qweak collaboration, and the proposed Møller experiment at Jefferson Lab, have the potential to give constraints on physics beyond the Standard Model, provided that critical hadronic radiative corrections involving the strong interaction are under control. In this talk I will give an overview of recent theoretical progress in our understanding of these important corrections, and of the future opportunities to exploit measurements to calibrate the theoretical predictions.

Author: Prof. BLUNDEN, Peter (University of Manitoba)

Presenter: Prof. BLUNDEN, Peter (University of Manitoba)

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