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Higher-order QED corrections to polarized electron-proton scattering

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The planned P2 experiment at MESA aims to measure the weak mixing angle with high precision at low momentum transfer from parity violating electron-proton scattering. In order to match this precision, higher order corrections to the asymmetry have to be taken into account. In this talk I will present the effects of 2nd order QED corrections to the asymmetry and the shift in Q^2 due to these corrections.

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