

Beam Parameter Stabilization for P2 at MESA

Wednesday, 12 September 2018 18:00 (20 minutes)

The P2-experiment will measure the weak mixing angle with an all-time high precision via electron-proton scattering. The measured physics asymmetry and its uncertainty has to be corrected by the apparatusive asymmetry, which is generated by helicity correlated fluctuations of the beam parameters position, angle, intensity and energy. In this talk will be described how the high precision of 0.1\,ppb of the parity violating asymmetry can be provided by the high precision measurements of the parameters position, angle, and intensity.

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