

Double scattering polarimeter for the P2 experiment at MESA

Monday 14 September 2015 16:25 (25 minutes)

The P2 Experiment at the new Mainz Energy-recovering Superconducting Accelerator (MESA) aims at measuring the Weinberg-angle θ_w at low Q^2 with high precision. Therefore the polarization of the incident electron beam has to be known with a very high accuracy ($< 0.3\%$). A conventional Mott-polarimeter requires a lot of effort and expenses in calibration to be able to achieve this goal, if at all possible. The Double Scattering Polarimeter (DSP) promises to be able to meet the requirements with comparably small effort.

In the talk I will discuss the principles of the DSP and present first measurements.

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Session Classification: Session 3