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TITLE: Polarimetries for the Polarized ^3He Target at JLab

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ABSTRACT:

At Jefferson Lab, a Polarized ^3He Target has been used as an effective polarized neutron target for studying nucleon spin structure. For the 12 GeV program at JLab, the first stage upgrade of the target aim to increase factor of three the performance (Figure-of-Merit) and reach a systematic uncertainty of polarimetry below 3%. During the 6 GeV era, the target polarization was measured by two polarimetries: adiabatic fast passage-nuclear magnetic resonance (AFP-NMR) and electron paramagnetic resonance (EPR). With the upgrade, a new polarimetry, Pulse-NMR, is being studied in the lab. In this talk, we will discuss the detail study of AFP-NMR, EPR, Pulsed-NMR measurements and their corresponding systematics.