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Key Moller Polarimetry Systematics for the PREX-II/CREX Experiments ERIC KING, Syracuse University, MOLLER POLARIMETRY TEAM — Over the past few years the Moller polarimeter in Hall A has been upgraded to reduce systematic uncertainties related to target polarization and to allow operation at high energies >10 GeV. The upgraded polarimeter was first commissioned and operated at low energy (1 GeV) for PREX-II creating a special set of challenges. Presented here is an outline of the upgraded polarimeter and a discussion of some of the challenges faced during PREX-II and CREX including reduction of key systematics related to the spectrometer optics. One key systematic uncertainty, the Levchuk effect which arises from broadening due to the Fermi motion of the inner unpolarized target electrons will be particularly addressed.

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