

Abstract Submitted
for the APR20 Meeting of
The American Physical Society

Spectrometer Optics Calibration for PRex-II Experiment SIYU

JIAN, NILANGA LIYANAGE, Univ of Virginia — Neutron density as a fundamental parameter is important in neutron star structure, heavy iron collision, and atomic parity violation experiment. However, the measurement of neutron density is much harder in electron scattering since neutron is an uncharged particle. PRex-II experiment measuring the neutron density by measuring the parity-violating in electron scattering since neutron weak charge is much large than that of a proton. The PRex-II experiment was performed from Jun to September 2019. In this report, I will give a preliminary Spectrometer Optics Calibration result for the PRex-II experiment.

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Date submitted: 10 Jan 2020

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