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**Polarized Source Setup and Helicity Correlated Beam Asymmetry Results for PREX-2 and CREX**[1] SACHINTHANI PREMATHILAKE, University Of Virginia — Parity-violating electron scattering provides a clean probe of neutron densities that is model independent and free from most of the strong interaction uncertainties. The PREX-2 and CREX experiments that ran at Jefferson lab aimed to measure the nucleon skin thickness in 208Pb and 48Ca via parity violating electroweak asymmetry in the elastic scattering of longitudinally polarized electrons. One of the crucial systematic uncertainty that both of these experiments were sensitive to is the non-parity violating asymmetries that resulted from the helicity-correlated false asymmetries in the polarized electron beam.This talk will describe the polarized source setup and helicity-correlated beam asymmetry results for PREX-2 and CREX.

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