## Abstract Submitted for the APR21 Meeting of The American Physical Society

Measuring the Weak Charge Radius of Pb<sup>208</sup> with PREX-II<sup>1</sup> BRENDAN REED, CHARLES HOROWITZ, Indiana Univ - Bloomington, PREX-II COLLABORATION — Parity-violating electron scattering is a strong tool that can be used to probe the elusive neutron density in atomic nuclei. Recently, the parity-violating electron scattering experiment PREX-II made measurements of the weak charge radius of Pb<sup>208</sup>. This measurement is a strong improvement over the results of the PREX experiment, now measuring the weak charge radius with an uncertainty of 1.4

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