

Abstract Submitted
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Mini-LENS— Operation of a Prototype Low-Energy Solar Neutrino Spectrometer Underground¹ STEVEN DEREK ROUNTREE, Virginia Tech, LENS COLLABORATION — The Low-Energy Neutrino Spectroscopy (LENS) Collaboration aims to precisely measure the entire low energy spectrum of solar neutrinos, including the pp, pep, ⁷Be decay, and CNO reactions in the sun via real time CC based neutrino capture in ¹¹⁵In. As a prototype for LENS, we are building 410L mini-LENS, which will demonstrate the detector performance and optimize scaling up to the ~200 ton final LENS detector. The mini-LENS detector design, the planned mini-LENS operational phases, and the continued R&D efforts will be discussed.

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