

Abstract Submitted
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LENS: Prototyping Program¹ S. DEREK ROUNTREE, Virginia Tech, LENS COLLABORATION — The Low-Energy Neutrino Spectrometer (LENS) prototyping program is broken into two phases. The first of these is μ LENS, a small prototype to study the light transmission in the as built LENS scintillation lattice—a novel detector method of high segmentation in a large liquid scintillation detector. The μ LENS prototype is currently deployed and taking data at the Kimballton Underground Research Facility (KURF) near Virginia Tech. I will discuss the Scintillation Lattice construction methods and schemes of the μ LENS program for running with minimal channels instrumented to date ~ 41 compared to full coverage 216). The second phase of prototyping is the miniLENS detector for which construction is under way. I will discuss the overall design from the miniLENS Scintillation Lattice to the shielding.

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