

Abstract Submitted
for the SES11 Meeting of
The American Physical Society

LENS Prototyping – Construction and Deployment of MicroLENS¹ TRISTAN WRIGHT, ZACHARY YOKLEY, Virginia Tech, LENS COLLABORATION — The LENS collaboration's goal is the construction of a low energy neutrino spectrometer (LENS) that will measure the entire solar neutrino spectrum above 115keV. In an effort to reach this goal we have developed a two phase prototype program. The first of these is microLENS, 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 scintillator detector. The microLENS prototype is currently being finished and deployed at the Kimballton Underground Research Facility (KURF) near Virginia Tech. This prototype will be the main topic of this presentation. We will present the detector construction and the methods and schemes of the program during the first phases of running with minimal channels instrumented (~41 compared to full coverage 216). After construction of the microLENS detector we will finalize designs for the miniLENS prototype and have the miniLENS prototype running shortly thereafter.

¹This work is supported by the National Science Foundation and Department of Energy.

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Date submitted: 25 Aug 2011

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