

Abstract Submitted
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The LBNE Photon Detector RYAN WASSERMAN, NORM BUCHANAN, Colorado State University — The Long Baseline Neutrino Experiment (LBNE) is a proposed neutrino oscillation experiment with a goal of measuring the orientation of the neutrino mass hierarchy and δ_{CP} in the lepton sector. The LBNE neutrino beam will be generated at FermiLab and be detected by a 34 kton liquid argon time projection chamber located at the Homestake Mine in South Dakota. In this presentation I will give an overview of the motivation for and progress towards designing a photon detection system for the LBNE far detector that utilizes wavelength shifting light guides and silicon photon multipliers to collect light from neutrino interactions.

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