

Abstract Submitted  
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**Optical Systems for MicroBooNE** BENJAMIN JONES, MIT — MicroBooNE is a 170 ton liquid argon TPC neutrino experiment which is planned to begin running at Fermilab in 2012. As well as measuring charge deposited by ionizing particles in the TPC volume, the experiment will measure the light produced by scintillating charged particles in the liquid argon. The MicroBooNE optical systems comprise of two rows of PMT's mounted behind wavelength shifting plates and will form a component of both the triggering and reconstruction processes. A significant R&D program to optimize the layout, manufacturing methods and simulation algorithms for the MicroBooNE optical systems is underway. I will present on the current status of all three aspects.

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