Liquid argon detectors have been investigated at Fermilab for many years, and the lab has learned many techniques for dealing with the purity levels required for very large TPC style detectors. With the advent of MicroBoone and, ultimately, LBNE, with very large volumes and electronics in the fluid, the demands on performance and reliability will be very high. In addition, Fermilab has been involved in a comprehensive series of experiments to understand low energy nuclear recoil behavior in liquid argon, which speaks to the sensitivities for current and future dark matter searches. This review is an opportunity to consider what progress has been made and how best to build on that for the new challenges. Here is your charge:

1) Briefly summarize the current state of the program, discussing what has been learned and what are the remaining issues.
2) What is the proposed scope of the R&D program for the next two years, and what resources are required for that program?
3) Compare the program with similar programs worldwide. Are we doing leading work in this area?
4) Which parts of the program should be considered generic R&D and which parts should be considered project specific?
5) Will this research likely result in new projects at the lab?

LAr R&D Review 2-14-14 WH7X Order of Business

08:30 - Introduction - S. Pordes (FNAL) - 15 minutes
08:45-- LBNE Light Tests - Stuart Mufson (Indiana) -30 minutes
09:15 -SCENE – Hugh Lippincott (FNAL) -25 minutes
09:40 – Purification of Underground Argon - Henning Back (Princeton) - 25 minutes
10:15 - Break - 15 minutes
10:20- LAPD - Michelle Stancari (FNAL)..what we've learnt and are still learning - 30 minutes
10:50 - HV understanding - Sarah Lockwitz (FNAL) - 20 minutes
11:10 - M.I.T. light program - Matt Toups (M.I.T.) - 45 minutes
11:55 - Summary of resources required/requested. - S. Pordes - 10 minutes ..
12:20 - 1:45 - Working lunch for the reviewers