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Development of Massive Liquid Argon TPCs for LBNE

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The LBNE experiment will employ liquid argon TPCs for the far detector, representing a major scale-up from the ICARUS and MicroBooNE designs. This talk will describe the progress and plans for the development of the TPC itself, the photon detection system, electronics and the cryogenic systems. Staging plans and strategies for scaling up the design towards the planned 34 kt fiducial mass (50 kt total mass) will be presented. Progress on the development of simulations and reconstruction algorithms will also be presented.

Summary

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Session Classification : Detector RD and Performance

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