

A SURF Low Background Module (SloMo)

Tuesday, May 14, 2024 5:20 PM (20 minutes)

With radiopurity controls and targeted design modifications a kton-scale liquid argon time projection chamber similar to DUNE could be used for enhanced low energy physics searches. This includes improved sensitivity to supernova and solar neutrinos, and other rare event searches. This talk will present simulation studies to evaluate physics sensitivities of such a module. It will also discuss R&D to develop large-scale radiopurity controls necessary to construct such a detector.

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