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Radon Emanation at Cryogenic Temperatures

Wednesday, 8 November 2023 17:30 (15 minutes)

Radon is a key problem for many low-background experiments and emanation assays are essential tools to select detector materials and characterize these events. Emanation in cryogenic liquids will be important for coming neutrino and dark matter experiments where both temperature and surface properties will determine the radon level. In this talk a radon emanation bench, taking advantage of ultralow background proportional counters, will be introduced. Work to construct a cryogenic liquid version of this system will be outlined as well as a new simulation tool to model radon emanation in liquid argon.

Early Career

No

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