

Abstract Submitted
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Liquid Scintillators for Neutrino Detection in Large Scale Detectors ATHENA IEROKOMOS, UC Berkeley and UCLA — Neutrinoless double-beta decay is a rare nuclear process that could be used to determine if the neutrino is a Majorana or Dirac particle. The next generation of experiments will need to instrument more than 1 ton of isotope. Liquid scintillator detectors are a good choice for obtaining this large mass. In this presentation, we compare liquid scintillators for use in these detectors and concentrate on their light yield. This is part of a larger project developing novel scintillators based on quantum dots.

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