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Properties of Quantum-Dot-Doped Liquid Scintillators CHRISTOPHER COY[1], None — Novel scintillators based on semiconducting nanocrystals called quantum dots have unique optical and chemical properties that make them interesting for future neutrino experiments especially those searching for neutrinoless double beta decay. In this talk, we report the results of laboratory-scale measurements for three candidate quantum-dot-doped scintillators. We focus on the key properties required for large-scale neutrino experiments, which are the emission spectrum, the attenuation length and the stability.

[1]I would like to follow the talk by Andrey Elagin on directionality in scintillators and precede Athena Ierokomos' talk on light yield in scintillators.

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None

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