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Liquid scintillator for search of double beta decay with Tin

Tin-124 is one of the double beta decay isotopes where no measurement of the double neutrino decay rate has been performed. The abundance of the isotope is 5.79%, fairly low, however it can be compensated for by the high loading potential of the natural isotope up to 10% into liquid scintillator without light quenching. This work presents results of LAB based Tin loaded liquid scintillator stability, light yield and possible purification technique.

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