Contribution ID: 201

Type: Poster

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.

Primary author: Dr CHKVORETS, Oleg (SNOLAB)

Co-authors: FORNER, Julia; KRAUS, Christine; LOZZA, Valentina; ZUBER, Kai (Technische Universitaet Dresden)

Presenter: Dr CHKVORETS, Oleg (SNOLAB)

Session Classification: Poster Session

Track Classification: Neutrinos