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SNO+ Tellurium Loading for Neutrinoless Double Beta Decay

Authorship annotation

For the SNO+ Collabarotion

Session and Location

Monday Session, Poster Wall #54 (Auditorium Gallery Right)

Abstract content

SNO+ will be a kilo-tonne scale liquid scintillator based experiment located at the SNOLAB underground facility in Sudbury, Canada. The major physics goal of the collaboration is to search for neutrinoless double beta decay of ^{130}Te. With a target mass of 260 kg of the isotope in the fiducial volume, the half-life sensitivity is projected to reach ~1.96×10^{26} years after 5 years of data acquisition. In this poster, I will present the techniques that have been developed by the SNO+ collaboration to allow for natural tellurium to be added to the scintillator liquid with high light yield and transparency, and describe the status of implementation of those techniques in SNO+.

Poster included in proceedings:

yes

Primary author(s) : Dr. MANECKI, Szymon (Queen's University)

Presenter(s) : Dr. MANECKI, Szymon (Queen's University)

Session Classification : Poster Session Monday

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