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Tellurium Preparation for the SNO+ Neutrinoless Double Beta Decay Search

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SNO+ is a kilotonne-scale liquid scintillator neutrino experiment that is currently being constructed at SNO-LAB. One of the primary physics goals of SNO+ will be a search for neutrinoless double beta decay, which will be carried out by loading tellurium metal into the liquid scintillator. This talk will describe the techniques that have been developed to prepare tellurium for use in SNO+, most notably techniques to reduce radioactive impurities in the tellurium to extremely low levels.

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