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Neutrinoless Double Beta Decay in the SNO+ Experiment

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SNO+ is a multipurpose neutrino detector located in 2km underground in Sudbury, Canada. The main physics goal of the project is to search for neutrinoless double beta decay in Tellurium-130. For phase I, SNO+ will deploy 4t of natural Tellurium inside the detector volume in the form of Tellurium-loaded liquid scintillator. The detector is currently filled water and taking data. The Tellurium loading is expected to start later this year. I will discuss the requirements for the SNO+ scintillator along with the loading technique. The nature of the signal extraction and the projected sensitivity to neutrinoless double beta decay in SNO+ will also be presented.

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