NNN25

International Workshop on Next Generation Nucleon Decay and Neutrino Detectors

October 1-3, 2025

SNOLAB sudbury

Contribution ID: **57** Type: **Plenary Talk**

SNO+: Progress and Prospects

Wednesday, October 1, 2025 12:00 PM (25 minutes)

SNO+ is a liquid scintillator detector located 2 km below the Canadian Shield in the Vale Creighton mine. SNO+ has a rich neutrino program that includes the observation of solar neutrinos. Detection of anti-neutrinos from nearby reactors and the Earth have been also been reported upon and leveraged for a nascent supernova detection program. Preparations of the search for neutrinoless double beta decay using Tellurium suspended in the scintillator are well advanced. The new calibration systems are fully commissioned and the first internal source deployment has been performed. This talk will present the latest results from the SNO+ scintillator phases with discussion of near-term physics goals and prospects for neutrinoless double beta decay.

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Session Classification: Plenary Talks

Track Classification: Plenary Talk: Contributed Talk