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SNO+, from water to scintillator

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The SNO+ experiment is a low background, liquid scintillator neutrino detector with the goal of detecting neutrinoless double beta decay in Tellurium-130. The experiment has been taking data filled with water since early 2017 setting world-leading limits in invisible nucleon decay and a very low background measurement of solar neutrinos. SNO+ is in the process of being filled with liquid scintillator, a phase in which reactor antineutrinos and solar neutrinos will be measured. The Te-loaded phase is expected to start towards the end of the year. The results, status and future of the detector are discussed.

Collaboration name

SNO+ Collaboration

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