



Contribution ID: 469

Type: **Presentation**

## Current Status and Commissioning of the SNO+ Experiment

*Thursday, 3 August 2017 14:42 (18 minutes)*

The SNO+ experiment will use a 780-ton liquid scintillator detector, loaded with 1.3 tons of  $^{130}\text{Te}$ , to search for neutrino-less double beta decay (0nbb). The detector has reached a major milestone after filling the detector with ultra-pure water in early 2017. Initial data-taking with a water-filled detector will continue through liquid scintillator filling in the fall of 2017. This talk will give a brief overview of the commissioning of the SNO+ detector and the physics goals leading up to  $^{130}\text{Te}$  loading. The predicted backgrounds and sensitivities to 0nbb will also be presented.

**Primary author:** Prof. GRANT, Christopher (Boston University)

**Presenter:** Prof. GRANT, Christopher (Boston University)

**Session Classification:** Neutrino Physics

**Track Classification:** Neutrino Physics