



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

Contribution ID: 2129

Type: Oral (Non-Student) / Orale (non-étudiant(e))

The SNO+ Calibration Program

Thursday 14 June 2018 14:45 (15 minutes)

With a 6 km water equivalent overburden in the Canadian Shield, SNO+ plans to make a competitive measurement of neutrinoless double beta decay in Tellurium doped liquid organic scintillator. Additionally, the detector has the capacity to make measurements of reactor, supernova, solar and geoneutrinos. Since December 2016, the detector is taking data as a water Cherenkov detector to set limits on nucleon decay and determine the external backgrounds. SNO+ requires a detailed calibration program to determine the optical and energy response of the detector. This presentation will describe the calibration hardware as well as the calibration program in the water phase of SNO+ and how these calibrations affect the systematics of upcoming measurements.

Author: BAYES, Ryan (Laurentian University)

Presenter: BAYES, Ryan (Laurentian University)

Session Classification: R3-3 Particle Physics X (PPD) | Physique des particules X (PPD)

Track Classification: Particle Physics / Physique des particules (PPD)