



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

Contribution ID: 2710

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

Continuing Prospects of the SNO+ Calibration Program

Monday 3 June 2019 13:30 (15 minutes)

Neutrino physics continues to be a rich and vibrant field. SNO+, situated as it is in the Vale Creighton Mine at 6800 m water equivalent depth, promises to address a number of topics within the subject. To understand the measurements taken by the SNO+ detector, a similarly multifaceted approach is required for its calibration. The different techniques used in the SNO+ calibration will be described here with special focus on the transition from the SNO prototyped water phase calibration measurements to the calibration of the scintillator filled detector. With the heightened requirements for background suppression in SNO+, new materials have been chosen for the construction of the calibration systems. The opportunity has also been taken to design new calibration sources with better characteristics for the new target medium. Early results from newly commissioned calibration systems will be presented in contrast to the old systems with the future prospects for the scintillator calibration program.

Author: BAYES, Ryan (Laurentian University)

Presenter: BAYES, Ryan (Laurentian University)

Session Classification: M2-3 Particles deep underground (PPD) | Particules profondément sous terre (PPD)

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