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Calibrating the SNO+ Detector

SNO+ is a scintillator experiment at SNOLAB searching for neutrino-less double-beta decay in Tellurium-130, as well as detecting low energy solar neutrinos, and reactor- and geo-antineutrinos. Detailed understanding of our energy response is crucial, especially for the double beta decay measurement. SNO+ will deploy radioactive calibration sources to study the detector's response to different particle types, position and energy reconstruction, and energy resolution at the double-beta endpoint. I will focus on the development and simulation of a new AmBe source and upgrading the existing SNO calibration hardware to a closed, airtight system, both of which are needed to for compatibility with our new LAB-based scintillator.

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