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Evaluation C14 background in the SNO+ detector

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SNO+ is a neutrino detector where the active medium is a liquid organic scintillator (LAB). It is important to understand the backgrounds in detail. C14 is a source of background events in the SNO+ detector. C14 decays can be observed homogeneously throughout the LAB in the detector. The detector is now completely filled with LAB and the process of adding a wavelength shifter (PPO) is ongoing. This leads to mixing effects and possibly uneven distribution of the wavelength shifter. Changes in these effects over time and position are therefore important to monitor. This presentation will show this analysis for recent data.

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