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Event reconstruction and background rejection in the SNO+ experiment

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The SNO+ experiment, which will begin operations this year, is designed to confront a broad range of physics topics. These include: neutrino-less double beta decay, solar neutrinos, geo-neutrinos, reactor neutrinos, supernova neutrinos and unusual modes of nucleon decay. In order to address these goals, the detector will undergo several phases of operations in which the inner volume will, in turn, be filled with water, pure scintillator and then metal-loaded scintillator. Each phase and physics topic poses different challenges for event reconstruction and relevant background rejection algorithms. This talk will describe the current state of development for such algorithms.

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