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Study of SNO+ liquid scintillator energy response HOK SEUM WAN CHAN TSEUNG, Center for Experimental Nuclear Physics and Astrophysics, University of Washington — SNO+ is a large-volume underground liquid scintillator detector that exploits the infrastructure of the completed Sudbury Neutrino Observatory experiment. The goals of SNO+ include: (1) an extension of current low-energy solar neutrino measurements by detecting neutrinos from the pep and CNO chains, (2) a study of reactor and geo-neutrinos, and (3) a search for neutrinoless double-beta decay, by adding Nd-150 to the scintillator. A deep knowledge of the scintillator energy scale is crucial for the success of SNO+. This talk will describe our efforts to understand the scintillator response to ionizing particles.

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