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Search for Nucleon Decay in SNO+ light water MORGAN ASKINS, University of California Davis, SNO+ COLLABORATION — Data from the upcoming water-phase of the SNO+ experiment can be used to constrain the lifetime for nucleon decay to invisible modes such as $n \to \nu\bar{\nu}\nu$. The results will be an improvement on the previous SNO results due to the decreased background from solar neutrino neutral current reactions on deuterium, which are not present in the SNO+ light water. Simulations predict a sensitivity of $\tau_n > 1.25 \times 10^{30}$ s and $\tau_p > 1.38 \times 10^{30}$ s at 90

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