

Abstract Submitted
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Antineutrinos in scintillator at SNO+ LOGAN LEBANOWSKI, University of Pennsylvania, SNO+ COLLABORATION — SNO+ is a multipurpose neutrino experiment located 2 km underground in a Canadian mine. The primary goal is a high-sensitivity search for neutrinoless double beta decay, however SNO+ is also measuring antineutrinos from nuclear reactors and the local terrain. The nearest reactor complex is located 240 km away and comprises the most powerful set of reactors currently active. At present, the SNO+ detector is approximately half-filled with 370 tonnes of scintillator. We expect to measure the neutrino mass splitting Δm_{21}^2 with a precision comparable to that of KamLAND, and make the first measurement of a U/Th geo neutrino flux in the Western Hemisphere.

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