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Reactor Antineutrino Oscillations and Geoneutrinos in SNO+

Friday, 21 June 2024 17:30 (2 hours)

SNO+ is a neutrino detector located 2 km underground in SNOLAB, Canada, whose main goal is to search for neutrinoless double-beta decay. In addition, being about 240 to 350 km away from three large nuclear power plants, it is well situated to measure neutrino oscillation parameter Δm_21^2. Analyses of antineutrino signals, including the observation of geoneutrinos in SNO+ (first measurement in the Western Hemisphere and in the North American plate), are underway. This poster presents an overview of the oscillation analysis being performed at SNO+, with projections for the sensitivities to Δm_21^2,theta_12, and the geoneutrino flux.

Poster prize

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