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Reactor anti-neutrino search in the SNO+ water phase

Reactor anti-neutrinos are most likely to be detected via inverse beta decay (IBD) reaction in hydrogen-rich detectors. However, they have never been detected in pure water Cherenkov detectors due to the low detection efficiency and poor reconstruction of the neutron events, and the first detection would be quite interesting. A reactor anti-neutrino search using the SNO+ detector during the water-fill phase will be presented.

Mini-abstract

A reactor anti-neutrino search in the SNO+ water phase will be presented.

Experiment/Collaboration

SNO+ Collaboration

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