

Searching for nucleon decay in JUNO

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JUNO is a multi-purpose 20 kton liquid scintillator neutrino detector under construction in the southeast of China at a baseline of 52.5 km from eight nuclear reactors. The experiment will have a rich program in neutrino oscillation physics using reactor antineutrinos, as well as in the study of neutrinos from a variety of natural sources including the Sun, the Earth, and supernovae. The experiment's design, large size, and low threshold will also make it an excellent ground to search for proton decay, particularly via the kaon decay mode. This talk will provide an overview of the JUNO experiment with a focus on its potential for nucleon decay searches.

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