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JSNS2: A sterile neutrino search in Japan

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A set of possible observations of neutrino oscillations at short distances may be indicative of a new neutrino. The resolution of these anomalies with explanation has been identified by the neutrino community as one of its most important near/mid-term goals. The J-PARC Sterile Neutrino Search at the J-PARC Spallation Neutron Source (JSNS2) experiment will directly address these anomalies and will also be able to make precision measurements of monoenergetic muon neutrinos from charged kaon decay-at-rest for the first time. The experiment, which will employ 50 tons of liquid scintillator, will also provide much needed research and development relevant for a number of next generation projects. This talk will introduce JSNS2 and present the status of the experiment on the way to first data in late-2018.

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