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Neutrino Physics Opportunities at the J-PARC MLF

Monday, 11 November 2019 17:00 (20 minutes)

The J-PARC Material and Life Science Experimental Facility (MLF) is a pulsed spallation neutron source in Tokai, Japan. 3 GeV protons produced by the Rapid Cycling Synchrotron (RCS) are directed onto a mercury target at 25 Hz to produce an intense source of neutrons and decay-at-rest neutrinos. In this talk, I will describe the MLF facility with a particular focus on the neutrino source characteristics. I will also describe an upcoming experiment called JSNS2 which will use the MLF neutrino flux to directly test the LSND anomaly and make various cross section measurements.

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