

Plans and Preparation Status of the Sanmen Reactor Neutrino Laboratory

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The Sanmen Reactor Neutrino Laboratory is currently being under construction as the CEvNS experimental platform, which is located at the Sanmen nuclear power plant in Zhejiang, China. In this laboratory, two different detector technologies: high-purity germanium detector technology and liquid xenon detector technology, will be used to jointly measure the reactor neutrino CEvNS at multiple experimental sites. The far site is located at about 22 m distance from the 3.4 GWth reactor core, while the near site has a distance about 10 m. This means the advantage of large neutrino flux and the convenience of operation brought by being located outdoors for the far site. This talk will introduce the plans and preparation status of the Sanmen Reactor Neutrino Laboratory.

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