

Status and Astrophysical Neutrinos with the JUNO experiment

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The Jiangmen Underground Neutrino Observatory (JUNO) is a multipurpose observatory under construction in China. The JUNO detector consists of a 20 kton liquid scintillator target monitored by about 18k 20-inch Photomultiplier Tubes (PMTs) and about 26k 3-inch PMTs. This detector is strategically located 53 km from the Taishan and Yangjiang Nuclear Power Plants in order to primarily determine the neutrino mass ordering and to precisely measure several oscillation parameters. In this talk,

In this talk, after a short introduction on the detector design and the construction status, I will discuss the experiment's physics potential with a focus on astrophysical neutrinos and multi-messenger observations.

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