



Contribution ID: 32

Type: **Poster**

JUNO's Neutrino Mass Ordering Sensitivity

The Jiangmen Underground Neutrino Observatory (JUNO) is a next-generation neutrino detector under construction in South China. It aims to determine the neutrino mass ordering (NMO) primarily by studying the vacuum-dominated oscillation pattern of reactor antineutrinos. With its 20 kton of liquid scintillator target surrounded by 17612 20" and 25600 3" PMTs, JUNO will be able to probe as well the matter-dominated oscillations of atmospheric neutrinos, complementing the NMO analysis. This poster presents the current status of NMO analysis in JUNO, highlighting the importance of the synergy between reactor and atmospheric neutrino measurements to enhance sensitivity beyond 3σ C.L. within six year

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Session Classification: Poster Session