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JUNO's Sensitivity to Neutrino Mass Ordering

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The Jiangmen Underground Neutrino Observatory (JUNO) is a 20 kton liquid scintillator detector that will be located 650 m underground in the south of China. One of the main goals of the experiment is to determine the neutrino mass ordering. With energy resolution of 3% at 1 MeV, an optimized baseline of 52.5 km, and using electron antineutrino data from eight nuclear reactors, JUNO can determine neutrino mass ordering with a median significance level of 3σ after about six years of data taking. This poster is dedicated to the details of the JUNO neutrino mass ordering sensitivity analysis.

Poster prize

Yes

Given name

Dmitrii

Surname

Dolzhikov

First affiliation

no affiliation (on personal basis)

Second affiliation

Institutional email

ddolzhikov@jinr.ru

Gender

Male

Collaboration (if any)

JUNO

Primary author: DOLZHIKOV, DmitriiPresenter: DOLZHIKOV, DmitriiSession Classification: Poster session and reception 2

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