Contribution ID: **1684** Type: **Oral**

JUNO's Sensitivity to Neutrino Mass Ordering

Wednesday 30 October 2024 16:45 (15 minutes)

The Jiangmen Underground Neutrino Observatory (JUNO) is a 20 kton liquid scintillator detector that is under construction in southern China. One of the main goals of the experiment is to determine the neutrino mass ordering. For this measurement, JUNO will use electron antineutrinos from eight nuclear reactors located at an optimized baseline of 52.5 km. To resolve fast oscillatory pattern in the spectrum and determine the neutrino mass ordering, JUNO will need energy resolution σ of 3% at 1 MeV and energy scale uncertainty lower than 1%. This talk will cover the details of JUNO's sensitivity analysis for neutrino mass ordering.

Primary author: ДОЛЖИКОВ, Дмитрий

Presenter: ДОЛЖИКОВ, Дмитрий

Session Classification: High Energy Physics

Track Classification: High Energy Physics