

Jiangmen Underground Neutrino Observatory

Sunday, 8 September 2024 13:30 (25 minutes)

The Jiangmen Underground Neutrino Observatory-(JUNO) is a 20-kiloton liquid scintillator (LS) detector under construction in south China. It is designed to precisely measure the oscillation of reactor antineutrinos from two commercial nuclear power plants 53km away, with the goal of determining the neutrino mass ordering and measuring three oscillation parameters to sub-percent precisions. Upon completion in 2024, JUNO will be the world's largest and most advanced liquid scintillator detector, making it one of the best observatories for natural neutrinos from terrestrial, solar, supernovae, galactic and extragalactic sources. This talk will discuss the construction status and prospect of JUNO.

Primary author: XU, Benda (Tsinghua University)

Presenter: XU, Benda (Tsinghua University)

Session Classification: Underground Nuclear Astrophysics

Track Classification: Underground Nuclear Astrophysics