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Type: Long talk (25min. + 10min. Q/A)

Cutting-Edge Machine-Learning Advancements at JUNO

Monday 27 October 2025 16:10 (25 minutes)

The Jiangmen Underground Neutrino Observatory (JUNO) is the world's largest 20-kiloton liquid scintillator (LS) detector in south China. It will 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. This talk reviews the advancements in event reconstruction of JUNO with an emphasis on cutting-edge machine-learning developments.

Presenter: XU, Benda

Session Classification: Experiments - JUNO