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Introduction to Monte Carlo Simulation at JUNO

The Jiangmen Underground Neutrino Observatory (JUNO) is a 20 kton liquid scintillator detector of unprecedented 3%/sqrt(E) energy resolution, currently under construction in the south of China. JUNO is a multipurpose neutrino experiment designed to determine neutrino mass hierarchy and precisely measure oscillation parameters by detecting neutrinos from reactors. The Monte Carlo simulation plays a crucial role in designing the detector and predicting the detector performance. A Geant4-based full detector simulation software has been built under the SNiPER framework. This poster will describe details of the implementations on Monte Carlo Simulation and studies of the expected detector performance at JUNO.

Authorship annotation

for the JUNO collaboration

Session and Location

Monday Session, Poster Wall #157 (Ballroom)

Poster included in proceedings:

yes

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Track Classification: Poster (not participating in poster prize competition)