Contribution ID: **433** Type: **Poster**

Data Quality Monitoring System for the JUNO Experiment

Friday 19 July 2024 20:40 (20 minutes)

The Jiangmen Underground Neutrino Observatory (JUNO) is located in southern China, in an underground laboratory with a 650 m rock overburden. The primary scientific goal of JUNO is to determine the neutrino mass hierarchy.

Data Quality Monitoring (DQM) system is crucial to ensure the correct and smooth operation of the experimental apparatus during data taking of an experiment. The DQM system at JUNO will reconstruct raw data directly from JUNO Data Acquisition (DAQ) system, produce performance plots and use visualization tools on website to show the detector performance to guarantee high quality data taking. The strategy of JUNO DQM, including its design, current development and performance, will be presented.

Alternate track

I read the instructions above

Yes

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Session Classification: Poster Session 2

Track Classification: 14. Computing, AI and Data Handling