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Online event classification in JUNO

The Jiangmen Underground Neutrino Observatory (JUNO) has been primarily designed to determine the neutrino mass ordering by measuring the energy spectrum of neutrinos from two nuclear power plants, utilizing its exceptional energy resolution. JUNO employs a 20 kton liquid scintillator as the target substance in the central detector, with tens of thousands of 20-inch PMTs applied to achieve high photocathode coverage. Waveform from PMTs is a huge amount of data to deal with. Online event classification is necessary to reduce the data volume pressure. In this talk we will introduce the general design and selection strategy of online event classification.

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