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Atmospheric Neutrino Selection and Reconstruction in JUNO

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The Jiangmen Underground Neutrino Observatory (JUNO) is a multi-purpose neutrino experiment located in southern China, featuring a 20-kton liquid scintillator detector with excellent energy resolution and large target mass. JUNO has been collecting full liquid scintillator data since August 2025. While primarily designed to determine the neutrino mass ordering (NMO) using reactor antineutrinos, JUNO offers unique potential for atmospheric neutrino measurements, which can provide independent and complementary sensitivity to the NMO. This poster presents the latest progress towards the first atmospheric neutrino measurement at JUNO. Latest status on fully contained event selection, background rejection, and reconstruction performance are reported.

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