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Core-Collapse Supernova Neutrino Observation in JUNO

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The Jiangmen Underground Neutrino Observatory (JUNO) is a multi-purpose neutrino experiment currently being constructed in China. Its main physics goal is to determine the neutrino mass ordering and achieve precision measurements of oscillation parameters by utilizing a liquid scintillator detector with a target mass of 20 kilotons. JUNO is capable of recording a significant amount of data on the neutrinos produced during and before the next Core-Collapse Supernova (CCSN) burst. This talk will include the performance of the CCSN monitoring system and the potential of the reconstruction of energy spectra of all CCSN neutrino flavours via detecting various interactions in JUNO.

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