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Detection of supernova neutrinos with JUNO

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The Jiangmen Underground Neutrino Observatory (JUNO) is a multi purpose neutrino experiment, currently under construction in China, whose main detector consists in a spherical tank filled by 20 kt of liquid scintillator. Beside the determination of the neutrino mass hierarchy, JUNO can be operated to study astrophysical phenomena that presume the emission of a huge number of neutrinos, such as supernova (SN) explosions. JUNO can detect all the flavors of the supernova neutrinos via different interaction channels, and then it will be able to locate SN, to explore the SN nucleosynthesis and to observe the diffuse supernova neutrino background.

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