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The Jiangmen Underground Neutrino Observatory (JUNO) is a multi-purpose underground experiment and the largest liquid scintillator (LS) detector going for neutrino mass hierarchy, precise neutrino oscillation parameter measurement and studies of other rare processes which include but not limited to solar neutrino, geo-neutrino, supernova neutrinos and the diffuse supernova neutrinos background. The R&D of the detector system is going, including central detector, LS, water Cherenkov veto, PMT system, top track etc. In this talk, we will try to overview the latest progress of the JUNO project in physics and hardware development.

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