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## The 3-inch PMT system and its progress at JUNO

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About 25 thousand 3-inch PMTs (SPMTs) were designed to install in JUNO detector between the gaps of about 18 thousand 20-inch PMTs (LPMTs) to enhance the detector performance, such as improving energy resolution and nonlinearity, extend JUNO physics like supernova neutrino detection and so on. Currently, all the parts of SPMT system, such as SPMTs, cables, electronics and under water boxes have already been mass produced and delivered to the JUNO site. They are being installed in the JUNO underground detector. The SPMT system and the installation progress will be presented in this talk.

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