

# Status of 20-inch PMT Instrumentation for the JUNO experiment

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The Jiangmen Underground Neutrino Observatory (JUNO) is a multi-purpose neutrino experiment. The primary physics goal of JUNO is determination of the neutrino mass ordering by detecting the reactor antineutrinos. There will be 20000 20-inch PMTs equipped for JUNO, including 15000 MCP PMTs from NNVT company and 5000 dynode PMTs from Hamamatsu company. To achieve the designed energy resolution of 3%@1MeV, the PMTs need to have high detection efficiency, high optical coverage, and low failure rate during the operation of JUNO. How to instrument these PMTs, including performance test, waterproof potting, implosion protection and installation, was extensively studied in the past several years. By now, the design of the instrumentation methods has been finalized, and mass production has started. Moreover, some parts of the instrumentation work have been finished or close to be finished now. In this talk, the current status of the JUNO 20-inch PMT instrumentation will be introduced.

## TIPP2020 abstract resubmission?

Yes, this would have been presented at TIPP2020.

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