

## Performance and Testing of the JUNO 20-inch PMTs

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The Jiangmen Underground Neutrino Observatory (JUNO) is a 20 kton liquid scintillator detector scheduled to come online in 2024. The scintillator volume is observed by approximately 17 000 large 20" PMTs and 25 000 small 3" PMTs. The performance of the PMTs is essential to reach the scientific goals, especially for oscillation physics. I will review the system of the large PMTs. Prior to installation, the PMTs have gone through intensive tests. I will describe the tests and the performance expected from the tests.

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