

Characterization of the Hyper-Kamiokande 50-cm Photomultiplier Tubes

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The Hyper-Kamiokande (HK), which is scheduled to start operation in 2027, is a gigantic water Cherenkov detector designed to observe a wide range of physics phenomena including neutrino oscillations and proton decay. Currently, the mass production of 50 cm diameter photomultiplier tubes (PMTs) for HK is in progress. A series of measurements are being conducted to evaluate the performance characteristics, identify variations, and ensure the long-term stability of the PMTs. Dark count rates, gain, timing resolution, after pulse, etc. are evaluated by processing signals generated at several kHz per PMT. An overview of these measurements and the resulting performance data of the PMTs will be reported.

Do you need a VISA letter for traveling to Canada ?

No

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