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Measuring light distribution of LED sources for Hyper-Kamiokande detector calibration

Wednesday, 8 June 2022 14:30 (15 minutes)

The Hyper-Kamiokande experiment uses water-Cherenkov detectors to study neutrino oscillation and CP violation with high precision. To reduce systematic errors, multi-photomultiplier tube modules (mPMTs) that comprise the detectors will include LED light sources for calibration purposes. This talk describes how the LEDs are incorporated into mPMT design, how the distribution of LED light is measured, and discusses how the LEDs will be used for the experiment calibration upon detector completion.

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