

Gain Stability Evaluation of 50 cm Diameter Photomultiplier Tubes for Hyper-Kamiokande with Optimizing the Voltage Ratio

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Hyper-Kamiokande (HK), scheduled to start construction in 2020, will be the next generation water Cerenkov experiment in Japan. 50 cm Diameter Box & Line Photomultiplier Tubes (R12860 made by Hamamatsu) were evaluated. The dynamic range of the output was improved by optimizing the voltage dividing ratio between dynodes. The linearity and rate tolerance of the gain were also evaluated.

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