

## New 50-cm diameter photodetectors

*Monday 21 July 2014 13:10 (20 minutes)*

We have been developing 50-cm diameter Box&line PMTs and Hybrid Photo-Detectors (HPDs) for Hyper-Kamiokande.

Both have excellent performance compared with Super-Kamiokande PMT.

We present the principle and basic performance (typical waveforms, timing response, dark count rate, linearity and response uniformity) and the result of the pre-calibration for a test in a 200-ton water Cherenkov detector (EGADS tank).

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