

## **R&D studies of new photosensors for the Hyper-Kamiokande detector**

Hyper-Kamiokande is the next upgrade of the currently operating Super-Kamiokande experiment. It is a large water Cherenkov detector with a fiducial volume which will be approximately 20 times larger than its precursor. Fundamental elements for this experiment are large aperture, high sensitivity photosensors able to detect the weak Cherenkov light generated by neutrino interactions or proton decay, therefore many efforts are focused on study and R&D for these detectors.

In Super-Kamiokande, 50cm-diameter photo-detectors are already used, but new developments are dedicated for Hyper-Kamiokande, as some examples 20" Hybrid Photo-Detector (HPD) with an avalanche diode or multi-Photomultiplier Tubes (mPMTs) within acrylic vessels with inside 3" photo-detectors which will briefly be presented.

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