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Recent Progress in Hamamatsu Large Format PMTs

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Recent activities for large format PMTs in Hamamatsu are shown. First topic is the development of 12 inch PMT. Hamamatsu decided to develop 12 inch PMT for the use of neutrino experiments. As you know, several large-scale neutrino experiments are being considered right now. We would like to offer 12 inch PMT as one of options. Second topic is High QE photocathode. Hamamatsu succeeded to make High QE bialkali photocathode. Available products are still limited, but we are trying to apply this technology to large format PMTs. The latest result is shown. A 13 inch HPD, Hybrid Photo Detector, is being developed right now. This photo detector is made by the combination with solid-state devices and vacuum tube technology. This detector could be also one of options for future neutrino experiments.

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