



Contribution ID: 475

Type: **Oral Presentation**

## Recent progress in vacuum photon detectors from Hamamatsu

*Friday 10 June 2011 16:00 (25 minutes)*

Hamamatsu Photonics has been providing vacuum photon detectors for Neutrino physics experiments and Dark Matter experiments as well as other HEP experiments in many years. For instance, 11,700 pcs of 20-inch PMTs were delivered to Super-Kamiokande experiment in Japan, 5,500 pcs of 10-inch PMTs were delivered to ICECUBE experiment in Antarctica. Recently, we are providing several kinds of unique PMTs for XENON, WArP, ArDM, DAMA experiments in European laboratories.

We developed 12-inch large size PMT for Neutrino physics experiments and 3-inch metal bulb PMT with ultra low radioactive materials for Dark Matter experiments. Their features and the evaluation result will be shown in this presentation.

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**Session Classification:** Photon Detectors

**Track Classification:** Photon Detectors