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Detector and Electronics R&D for picosecond resolution, single photon detection and imaging

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Photek, in collaboration with the University of Leicester space research centre, are pursuing a number of R&D projects aimed at developing systems for detection of single photon events with time resolution of the order of 10 ps. This involves the development of new detectors and accompanying electronics, utilising the HPTDC and NINO chips developed at CERN. An overview of R&D efforts will be presented, including results from a new multi-anode detector, jitter measurements on MCP-PMTs and current development progress on a benchtop HPTDC module.

Primary author: Dr MILNES, James (Photek Ltd)

Presenter: Dr MILNES, James (Photek Ltd)

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