

Radiation detectors and photo detectors

Date:	16/06/2016
Technology:	Design of Radiation Detectors and Front End Electronics for photodetector readout and radiation detection.
TRL:	The original application is not a space project. At LHC/CTA level probably TRL8-TRL9 equivalent
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Original Application:	Astrophysics, High Energy Physics, Medical Imaging, Neutron Detectors
Projects:	CTA, LHC, PET
Key points:	<ul style="list-style-type: none"> - Experience in scintillators and semiconductor detectors - Applications in calorimetry, tracking, medical imaging and neutron detectors - High speed (10 ps time resolution), high dynamic range (15 bit) and low noise front end electronics - Solid experience in single photon detectors (SiPM, PMTs, etc)
Potential Space Science Applications:	<ul style="list-style-type: none"> - Missions or satellites requiring radiation and particle detectors. - Missions or satellites requiring low light level fast photodetectors.
Potential Applications:	Radiation Detectors for Homeland Security, Nuclear Experiments, Material Inspection, Bio-Medical Applications, Nanosats, Space Missions