

Lancaster capabilities and interests

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Sensor technology

Interest in 28nm sensor development; possible link to Quantum Technology Centre (nanotechnology)

Sensor characterisation:

Two Photon Absorption TCT setup available; commissioned as part of a PhD thesis;

diode and sensor characterisation with IV, CV;

Keyence metrology

sources and **test beam analysis**

Integration

Experience with **cooling tubes: thin Ti-pipe bending** and cutting

Interest in carbon fibre space frames

Detector layout simulation / optimisation

Readout

Sensor, module and telescope **readout with Gecco, YARR, Caribou..**

Muon tomography