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【343】 Characterisation of multi-channels Silicon Photomultipliers

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For the LHCb detector upgrade in 2019, the large scale scintillating fibre tracker will be readout with customised 128 channel Silicon Photo-Multiplier SiPM arrays from Hamamatsu. The first production batch of 500 detector arrays have been delivered in May 2017 and first results from the characterisation are shown. The technology provides a high photon detection efficiency, low optical cross-talk, dense packaging and insures fully operational conditions after a neutron fluence of $6 \cdot 10^{11}$ neq/cm².

The techniques employed to electrically and functionally characterise the devices will be presented.

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