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## **【311】 Production and Qualification of the Vertex Detector for the Mu3e Detector**

*Tuesday 10 September 2024 16:30 (15 minutes)*

The Mu3e experiment aims to detect charged lepton flavor violation through the decay chain  $\mu^+ \rightarrow e^+ e^- e^+$ . With sensitivities of  $10^{-15}$  in its initial phase and  $10^{-16}$  in the final phase, it improves upon prior experiments by four orders of magnitude. The innovative experimental concept is based on a tracking detector built from novel ultra-thin silicon pixel sensors and scintillating fibres and tiles.

The upcoming discussion will spotlight the production of the Vertex detector and the qualification of Mupix 11 pixel sensor modules. It will delve into the challenges associated with data transmission, particularly concerning connections via micro-twisted pair cables.

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