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## Qualification and Characterization of Mupix11 sensor modules for the Mu3e Vertex Detector

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The Mu3e experiment aims to detect charged lepton flavor violation through the decay channel  $\mu \rightarrow e e e$ . 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. In this talk, I will present the qualification procedure and test results of Mupix11 pixel sensor modules. Additionally, I will delve into the challenges associated with data transmission, particularly concerning connections via micro-twisted pair cables

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