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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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