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ID: 3808 Measuring Emittance with the MICE Scintillating Fibre Trackers

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Abstract The Muon Ionization Cooling Experiment (MICE) aims to measure a 10% reduction in a muon beam emittance to within 0.1%. To achieve this two scintillating fibre trackers will be placed within a 4T solenoidal field. The trackers utilize fibres with a diameter of 350 microns to provide a position resolution of less than 0.5 mm. Details of the tracker hardware, electronics and its calibration and reconstruction methods will be presented, along with the measured performance under cosmic ray tests and the simulated performance in MICE.

Funding Agency

Type of Presentation Poster

Main Classification 06 Beam Instrumentation and Feedback

Sub Classification T03 Beam Diagnostics and Instrumentation

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