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Measurement of shower development and its Molière radius with a four-plane LumiCal test set-up

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A prototype of a luminometer, designed for a future e^+e^- collider detector, and consisting at present of a four-plane module, was tested in the CERN PS accelerator T9 beam. The objective of this beam test was to demonstrate a multi-plane operation, to study the development of the electromagnetic shower and to compare it with MC simulations. In addition, the effective Molière radius of this configuration is extracted.

Experimental Collaboration

FCAL

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Session Classification: Detectors and data handling

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