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Some results of test beam studies of Transition Radiation Detector prototype at CERN.

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Operating conditions and challenging demands of present and future accelerator experiments result in new requirements on detector systems. There are a lot of ongoing developments and searches for new technologies to improve the properties of existing particle detectors and to develop devices based on some new principles. Several detector prototypes were studied in a test beam at the SPS accelerator at CERN. In this report we show some experimental results obtained with tested Transition Radiation Detector (TRD) prototype. TRD performance depending on transition radiation radiators used and on operation conditions, particularly - gas pressure, are presented and discussed.

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