

The Timepix Telescope

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A report on the development of a high resolution particle tracking telescope based on the Timepix pixel detector. Using the different modes of operation available in Timepix a Telescope system has been developed that can provide a spatial resolution of under 2 microns and a timing resolution to the order of a nanosecond. This track time tagging ability has been used to incorporate an LHCb/Beetle 40MHz readout to allow an LHC compatible device under test to be operated in an asynchronous beam. Initial results from testbeams with Timepix and other test targets from 2009 and 2010 will be reported.

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