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Timing Upgrades for the Test Beam Telescopes

Timing is becoming more and more critical for particle physics. The EUDET telescopes only provide minimal timing and require an upgrade to keep up with the demands. Currently, two upgrade projects are pursued at DESY. Firstly the TelePix project to provide an ns timestamp combined with a flexible region of interest trigger as well as an LGAD layer for the ultimate time resolution. Both concepts and first results are presented together with an outlook on future developments.

Finally, the application of a timing layer to provide beam diagnostics is showcased to highlight potential synergies within MT.

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