

12th Beam Telescopes and Test Beams Workshop



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The AIDA-Innova TLU. A Trigger/Timing Logic Unit for Beam-lines

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In beam-lines providing particles to test High Energy Physics detectors there is a need to provide a way of synchronizing the “device under test” with instrumentation such as a beam telescope installed in the beam-line.

In order to ease use of beam test facilities the EU funded EUDET,AIDA,AIDA-2020 and now AIDA-Innova projects have developed Trigger/Timing Logic Units (TLUs) that aim to simplify integration.

We describe the TLU being developed as part of AIDA-Innova. The precision for tagging beam particles will be improved from O(1ns) in previous generations to TLU to O(100ps).

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