13th Beam Telescopes and Test Beams Workshop



Contribution ID: 9 Type: **Tutorial**

The Corryvreckan Test-Beam Reconstruction Framework — Hands-on

Tuesday 20 May 2025 17:00 (2 hours)

Corryvreckan is a software framework dedicated to the analysis of test-beam data. It employs a modular concept, providing algorithms for typical analysis steps like pixel masking, clustering, tracking, alignment and for the reconstruction of commonly investigated observables like hit detection efficiency, spatial and temporal resolution, or material budget. This approach allows for a flexible configuration and adaption to a broad range of setups and devices, and explicitly includes the EUDAQ2 framework and the AIDA TLU. This tutorial provides an introduction to the Corryvreckan framework, the use of different analysis modules and their configuration. A key point of Corryvreckan — the flexible event building mechanism — will be covered for a typical setup, making use of EUDAQ2 and the AIDA TLU. Finally, the use of Corryvreckan as a tool for online monitoring will be covered.

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