

Synchronized analysis of testbeam data with the Judith software

Tuesday, September 3, 2013 12:00 PM (20 minutes)

The Judith software performs pixel detector analysis tasks utilizing two different data streams such those produced by the reference and tested devices typically found in a testbeam. This software addresses and fixes problems arising from the desynchronization of the two simultaneously triggered data streams by detecting missed triggers in either of the streams. The software can perform all tasks required to generate particle tracks using multiple detector planes: it can align the planes, cluster hits and generate tracks from these clusters. This information can then be used to measure the properties of a particle detector with very fine spatial resolution. It was tested at DESY in a KarTel telescope with an ATLAS Diamond Beam Monitor module as a DUT.

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Track Classification: Pixels (including CCD's) - Charged particle tracking