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Integration of an ROI plane in the AIDA telescope

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One key addition to the telescope developed within AIDA is the implementation of a size configurable trigger plane. This plane is realized with a hybrid pixel detector consisting of a sensor bump bonded to the ATLAS pixel readout chip FE-I4. Its masking capability allows the definition of a user-defined region-of-interest (ROI) trigger area, that can be tuned to match the area defined by the device under test (DUT). Such a flexible setup is presented and the operation is demonstrated. The integration of the DUT into the telescope and the online results obtained with it using the ROI trigger will be shown.

Estimated length in minutes

20

Primary author: OBERMANN, Theresa

Presenters: OBERMANN, Theresa (Physikalisches Institut Universität Bonn); Ms OBERMANN, Theresa (Physikalisches Institut Universität Bonn); OBERMANN, Theresa

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