

Performance Studies of the ATLASpix HV-MAPS Prototype for Different Substrate Resistivities

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The ATLASpix_Simple is a high-voltage monolithic active pixel sensor (HV-MAPS), which was initially designed as a candidate for the ATLAS ITk Upgrade and the CLIC tracking detector. In this contribution new results from test-beam campaigns with inclined tracks are presented, in which the performance is compared for different substrate resistivities and the active charge collection depth is determined. These findings are complemented by laboratory energy calibrations using fluorescent x-rays.

TIPP2020 abstract resubmission?

No, this is an entirely new submission.

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