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Physics performance of the ATLAS Pixel Detector

The ATLAS Pixel Detector is the innermost detector of the ATLAS experiment at the Large Hadron Collider at CERN, providing high-resolution measurements of charged particle tracks in the high radiation environment close to the collision region. It is the unique 4-pixel detector layers in HEP. The operation and performance of the Pixel Detector at LHC running are described. More than 97% of the detector modules were operational during this period, with an average intrinsic hit efficiency larger than 99 %. The evolution of the noise occupancy is discussed, and measurements of the Lorentz angle, delta-ray production and energy loss presented.

Primary author: Dr TSUNO, Soshi (High Energy Accelerator Research Organization, KEK)

Presenter: Dr TSUNO, Soshi (High Energy Accelerator Research Organization, KEK)