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Results from the Commissioning of the ATLAS Pixel Detector with Cosmic data MASAYUKI KONDO, University of Texas at Dallas, ATLAS COLLABORATION — The ATLAS Pixel Detector is the innermost detector of the ATLAS experiment at the Large Hadron Collider at CERN with approximately 80M electronic channels, designed to be high-acceptance, high-resolution, low-noise tracking performance providing the desired refinement in charged track pattern recognition capability in order to meet the stringent track reconstruction requirements of ATLAS. Being the last sub-system installed in ATLAS by the end of June 2007, Pixel Detector was successfully connected, commissioned, and tested in situ while meeting an extremely tight operations schedule, and is ready to take data upon the projected turn-on of the LHC. UTD group has successfully deployed and commissioned the environmental controls crucial for stable detector operation. Since fall 2008, Pixel Detector was included in the combined ATLAS detector operation, collecting physics data with cosmic muons. Details from the Pixel Detector calibration procedures and the results obtained with collected cosmic data, are presented along with the current detector status summary.

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