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Alignment of the Inner Detector of the ATLAS Experiment

SOPHIO PATARAIA, Max Planck Institute for Physics, Munich, Germany, ATLAS COLLABORATION — The ATLAS Experiment is a general purpose detector that will operate at the Large Hadron Collider at CERN in Geneva, Switzerland. In order to achieve its physics goals, the ATLAS tracking requires that the position of the silicon detector elements have to be known to a precision better than about 10 micrometers. This precision can only be achieved by track based alignment algorithms. In this presentation the startup plans for the ATLAS Inner Detector are presented. This includes the implementation of the alignment algorithm in the overall computing model as well as tests of misaligned detector setups using simulated data.

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