

Module production for ATLAS Inner Tracker (ITk) upgrade

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In connection with the High Luminosity upgrade of the Large Hadron Collider, the current ATLAS Inner Detector will be replaced by a new all silicon detector - the Inner Tracker ITk. The ITk will use Silicon pixel and microstrip sensor technology across two primary geometries, a central barrel-like structure and two sets of wheels acting as end-caps for the detector. The Scandinavian ITk Cluster, consisting of physicists and engineers from Copenhagen, Lund, Oslo and Uppsala University, will be responsible for producing 10 % of the microstrip modules for the End-cap.

This presentation will give a brief overview of the ITk detector design, and then go into the development of a robot for high precision glue dispensing, to be used in mounting the read-out, powering and control electronics on to the surface of Silicon microstrip sensors.

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