Contribution ID: 37 Type: Invited Talk

## The ATLAS tracker pixel detector for HL-LHC

Tuesday 27 September 2016 16:30 (22 minutes)

The high luminosity upgrade of the LHC (HL-LHC) in 2026 will provide new challenges to the ATLAS tracker. The current inner detector will be replaced with an entirely-silicon tracker which will consist of a five barrel layer Pixel detector surrounded by a four barrel layer Strip detector. The expected high radiation levels are requiring the development of upgraded silicon sensors as well as new a front-end chip. The dense tracking environment will require finer granularity detectors. The data rates will require new technologies for high bandwidth data transmission and handling. The current status of the HL-LHC ATLAS Pixel detector developments as well as the various layout options will be reviewed.

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Session Classification: B07-Detectors in design and construction

Track Classification: Detectors in preparation