

## The ATLAS Inner Tracker for the HL-LHC

*Saturday, January 6, 2018 5:30 PM (15 minutes)*

The ATLAS Experiment is currently working on a series of upgrades in preparation for the High-Luminosity LHC, which is scheduled to start in 2026. One such upgrade will be to the inner tracking system. The current Inner Detector will be completely replaced with a brand new, all-silicon Inner Tracker consisting of a pixel detector near to the beam line and a large-area strip tracking detector. This talk will present the design, expected performance and current status of the Inner Tracker, with a particular focus on the strip tracking and how the Nordic Institutes are contributing to this project.

### Summary

**Primary author:** WIGLESWORTH, Craig (University of Copenhagen (DK))

**Presenter:** WIGLESWORTH, Craig (University of Copenhagen (DK))

**Session Classification:** Saturday PM

**Track Classification:** Detectors, computing and software