



Contribution ID: 44

Type: Talk (invited speaker only) The talk is invitation only

## **[A09] The operational experience and performance of the SCT during Run-2 and LS2, and the first impression from Run3 operations**

*Monday 24 October 2022 14:05 (30 minutes)*

The ATLAS SemiConductor Tracker (SCT) had been maintained during the long shutdown 2 (LS2) and restarted operations in LHC Run-3. As reported in the previous VERTEX conference, the SCT successfully operated in LHC Run-2 (2015-2018) which came with high instantaneous luminosity and pileup conditions that were far in excess of what the SCT was originally designed to meet. The first significant effects of radiation damage in the SCT were also observed during Run-2. The operation condition of SCT from LHC Run-3 is expected to be the same as those in Run-2. This talk will summarise the operational experience and performance of the SCT during Run-2 and LS2, and the first impression from Run3 operations. Also the observation and prospect of the radiation damage on SCT silicon strip sensors will be presented.

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**Session Classification:** Running Detectors