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The operational experience and performance of the ATLAS SCT during Run-2 and LS2, and the first impression from Run3 operations

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The ATLAS SemiConductor Tracker (SCT) restarted operations in LHC Run-3. 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, challenges 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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