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The operational experience, challenges and performance of the ATLAS Semiconductor Tracker during LHC Run-2

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The Large Hadron Collider (LHC) recently completed its Run-2 operation period (2015-2018) which delivered an integrated luminosity of 156 fb⁻¹ at the centre-of-mass pp collision energy of 13 TeV. This marked 10 years of successful operation by the ATLAS Semiconductor Tracker (SCT), which operated during Run-2 with 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. This talk will summarise the operational experience, challenges and performance of the SCT during Run-2, with a focus on the impact and mitigation of radiation damage effects.

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