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Operation and Performance of the CMS outer tracker

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The CMS outer silicon strip tracker with its more than 15000 silicon modules and 200m2 of active silicon area is in its ninth year of operation at the LHC. We present the performance of the detector in the LHC Run 2 data taking. Results for signal-to-noise, hit efficiency and single hit resolution will be presented. We review the behavior of the system when running at beyond-design instantaneous luminosity and describe challenges observed under these conditions. The evolution of detector parameters under the influence of radiation damage will be presented and compared to simulations.

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