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Tracking and vertexing using the ATLAS detector

Run-2 at the LHC is nearing its end, and has already delivered an integrated luminosity of nearly 150 fb^{-1} to ATLAS where the instantaneous luminosity exceeded $2 \times 10^{34} \text{ cm}^{-2} \text{ s}^{-1}$.

The high instantaneous luminosity challenged the ATLAS track and vertex reconstruction with a peak number of $O(60)$ simultaneous interactions. Effects from radiation damage also start to become visible.

The current performance and evolution of the ATLAS track and vertex reconstruction will be discussed, and prospects for run-3 will be

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