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Expected performance of the ATLAS Inner Tracker upgrade

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The design of the ATLAS Inner Tracker upgrade is currently underway. This tracking detector, consisting of silicon pixel and strip modules, will replace the current ATLAS Inner Detector in order to successfully reconstruct tracks originating from charged particles produced at the high collision rate expected from the High-Luminosity Large Hadron Collider. The expected performance of the most recent simulated Inner Tracker layouts under consideration is presented.

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