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ATLAS Upgrades for the HL-LHC

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The ATLAS detector upgrade for the HL-LHC, scheduled to begin operation in 2029, is an ambitious program to extend the LHC physics program of discoveries and measurements with a record luminosity of high-energy parton collisions. Canadian institutions are playing a leading role in designing, building, and commissioning the upgraded detector, including the charged-particle Inner Tracker, the Liquid Argon Calorimeter, and the Muon Spectrometer. A snapshot of these projects is presented, describing their new cutting-edge technologies, progress on their construction, and how the ATLAS Collaboration is preparing for their physical & software integrations.

Keyword-1

ATLAS

Keyword-2

HL-LHC

Keyword-3

Particle Physics

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