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The ATLAS experiment and the high luminosity LHC program. Detector upgrade and Physics expectations

This talk would present the HL-LHC upgrade program of the ATLAS detector. High luminosity constraints and expected performances will be covered. A review of the planned upgrades for the Tracking system (ITK), the muon spectrometer, level-0 and HLT trigger and the new high granularity timing detector (HGTD). Finally, expectations on SM and Higgs boson measurements as well as searches for new physics (Dark matter, SUSY, beyond SM processes) will be presented.

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