

New Trends in High-Energy Physics



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The ATLAS experiment. Status and prospects

The ATLAS experiment is currently taking data (Run 2) at an energy in the center of mass of 13 TeV. The large statistic integrated in the last 3 years has allowed for both precise measurements in the Standard Model sector, in particular for the Higgs bosons, and searches for new physics. Highlights on achieved results are reported. The experiment is also preparing for the next two phases of the detector upgrade, in 2019-2020 (phase 1) and 2024-2026 (HL-LHC), in order to cope with growing harsh environment in future data taking periods.

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