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Selected Highlights from BSM Searches with the ATLAS Detector

Abstract

Many theories beyond the Standard Model (BSM) have been proposed to address several of the Standard Model shortcomings, such as the origin of dark matter and neutrino masses, the fine-tuning of the Higgs Boson mass, or the observed pattern of masses and mixing angles in the quark and lepton sectors. Many of these BSM extensions predict new particles or interactions directly accessible at the LHC. This talk will present selected highlights on a wide range of searches for new physics, including searches for heavy resonances as well as non-resonant and long-lived signatures.