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Searches for new phenomena with the ATLAS detector

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Many theories beyond the Standard Model (BSM) predict new phenomena accessible by the LHC. Searches for new physics models are performed using the ATLAS experiment at the LHC focusing on exotic signatures that can be realized in several BSM theories, excluding supersymmetry. The results of recent searches on 13 TeV data, with the exception of Dark Matter signatures, and their interplay and interpretation will be presented. Prospects for HL-LHC will also be discussed.

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