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Searches for new phenomena in high-pT lepton final states using the ATLAS detector

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Searches for physics beyond the Standard Model are performed in final states with high-pT leptons (including tau final states). We will present results of searches for resonant, and non-resonant phenomena in dilepton final states, searches for new phenomena in lepton + missing momentum and lepton flavour violating final states. These searches target a large range of beyond the Standard Model phenomenology ranging from new massive W' or Z' bosons, Gravitons, extra dimensions, black holes, contact interactions and heavy sneutrinos. The full 2015 LHC proton-proton dataset is combined with the data which has been collected so far during 2016, at $\sqrt{s} = 13$ TeV.

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