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Searches for new phenomena in leptonic final states using the ATLAS detector

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Many theories beyond the Standard Model predict new phenomena, such as Z, W bosons, KK gravitons, or heavy leptons, in final states with isolated, high-pt leptons (e/mu/tau) or photons. Searches for new physics with such signatures, produced either resonantly or non-resonantly, are performed using the ATLAS experiment at the LHC. This includes a novel search that exploits the lepton-charge asymmetry in events with an electron and muon pair. The most recent 13 TeV pp results will be reported.

In-person participation

Yes

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