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Searches for new Physics in events with multiple leptons at the LHC

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Events containing several leptons are useful probes of new phenomena due to the low background from Standard Model processes. We look for anomalous production of prompt like-sign leptons or events with three or more leptons, as well as search for excited leptons, heavy leptons and heavy neutrinos. The searches use data recorded in 2012 at $\sqrt{s}=8$ TeV centre-of-mass energy by the ATLAS and CMS experiments at the LHC.

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