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## Search for massive resonances decaying to charged lepton pairs at CMS

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At the LHC, the production of resonances decaying into pairs of charged leptons can be probed at unprecedented centre-of-mass energies. Results from searches for dilepton resonances at high invariant mass with muons and electrons based on the full dataset of 20/fb taken by the CMS detector in 2012 in proton-proton collisions at a centre-of-mass energy of 8 TeV are presented. The signatures under study arise in theories beyond the Standard Model (SM), such as grand unified theories. In absence of a significant deviation from the expected SM background 95% CL limits are set on model parameters of the theories under study.

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