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Search for heavy resonances decaying to long-lived neutral particles in the displaced lepton channel with the CMS detector

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A search is performed for a heavy resonance decaying to two long-lived massive neutral particles that each decay to dileptons. The process is detected experimentally via a distinct topological signature consisting of a pair of oppositely charged leptons originating at a vertex significantly displaced from the LHC beam spot. This talk will summarise the results of the search conducted on data collected by the CMS detector at the LHC during pp collisions at $\sqrt{s} = 7$ TeV. An updated search using data collected at $\sqrt{s} = 8$ TeV is underway and results are expected soon.

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