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Search for a heavy neutrino and right-handed W of the left-right symmetric model with CMS detector

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The left-right (LR) symmetric model explains the origin of the parity violation in weak interactions and predicts the existence of additional heavy right-handed W and Z' gauge bosons. In addition, heavy right-handed neutrino states arise naturally within the LR symmetric model. These neutrinos can be partners of light neutrino states, related to their non-zero masses through the see-saw mechanism. This makes the searches of heavy right-handed W and neutrino interesting and important. This talk is about the first search for signals from the heavy W and N production with the CMS Experiment at the LHC.

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