

# Scalars 2019



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## Lepton number violation from right-sneutrinos through the heavy Higgs portal

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### Content :

We explore the possibility of observing lepton number violation originating from the sneutrino sector at the LHC. In the NMSSM extended with right-handed neutrinos the right-sneutrinos can have a tiny decay width so that the lepton number violating terms can generate a sizable effect before the sneutrino decays. We explore the possibility to produce the right-sneutrinos through the heavy Higgs portal and generate a same-sign dilepton + MET signature.

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