

Search for heavy neutral leptons at CMS

Thursday, 30 July 2020 11:45 (15 minutes)

The smallness of neutrino masses, which together with neutrino oscillations could be pointing to physics beyond the standard model, can be naturally accommodated by the so-called “seesaw” mechanism, in which new Heavy Neutral majorana Leptons (HNL) are postulated. A model providing HNLs that incorporates the seesaw mechanism, while also providing a DM candidate and giving a possible explanation for the baryon asymmetry, is the neutrino minimal standard model (ν MSM). This talk presents searches for HNLs in CMS using the full Run-II data-set collected at the LHC.

I read the instructions

Secondary track (number)

Primary author: VIT, Martina (Ghent Univ.)

Presenter: VIT, Martina (Ghent Univ.)

Session Classification: Beyond the Standard Model

Track Classification: 03. Beyond the Standard Model