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## **Lepton number symmetry as a way to testable leptogenesis**

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We propose a minimal and motivated extension of the Standard Model characterised by an approximated lepton number conservation, which is able both to generate neutrino masses and to account for a successful baryogenesis via leptogenesis. The sterile fermions involved in the leptogenesis process have masses at the GeV scale.

We determine the viable parameter space that complies with both the neutrino and baryogenesis phenomenology, and analyse the different regimes for the generation of a lepton asymmetry in the early Universe (weak and strong washout) in order to determine their testability in future experimental facilities.

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**Classification de Session:** Heavy Flavours

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