

## **GeV neutrino mass generation: Experimental reach vs theoretical predictions**

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We discuss the parameter space reach of future experiments searching for heavy neutral leptons (HNLs) at the GeV scale. We focus on two classes of models: Generic assumptions (such as random mass matrices or the Casas-Ibarra parameterization) and flavor symmetry-generated models. We demonstrate that the generic approaches lead to comparable parameter space predictions, which tend to be at least partially within the reach of future experiments. On the other hand, specific flavor symmetry models yield more refined predictions, some of these can be more clearly excluded. We also highlight the importance to measure the flavor-dependent couplings of the HNLs as a model discriminator.

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