## A frequentist analysis of three right-handed neutrinos with GAMBIT

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The lightness of the three active neutrinos can be explained by the existence of an equal number of exotic heavy neutral fermions, with a mass ranging from a few MeV to around a TeV. Constraints from different sources such as direct detection, lepton flavour violation and electroweak precision observables, impose strong upper limits on their mixing of these sterile neutrinos to the active neutrinos. We present here the results of a global fit using the GAMBIT tool of a model with three heavy right-handed neutrinos, combining all experimental constraints from collider, precision and cosmological origin.

**Authors:** WENIGER, Christoph (University of Amsterdam); Dr HARZ, Julia (Technical University of Munich (TUM)); CHRZASZCZ, Marcin (Polish Academy of Sciences (PL)); DREWES, Marco (Ecole Polytechnique Federale de Lausanne (EPFL)); KRISHNAMURTHY, Suraj (University of Amsterdam); Dr GONZALO, Tomas (Monash University)

Presenter: Dr GONZALO, Tomas (Monash University)

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