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Global constraints on heavy neutrino seesaw mixing (15' + 3')

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We extend the Standard Model with 3 right-handed neutrinos with an approximate lepton number symmetry, which leads to sizeable neutrino mixing while generating the neutrino masses and PMNS matrix measured in oscillation experiments.

Constraints on the right-handed neutrino mixing are derived through a global fit to electroweak precision observables. We analyze explicitly the impact of one-loop corrections on these constraints.

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