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Leptogenesis and low-energy CP violation in a type-II-dominated left-right seesaw model

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Our work deals with a left-right symmetric leptogenesis framework in which light neutrino masses and the generation of a baryon asymmetry in the universe (BAU) are dominated by a type-II seesaw contribution. With an additional SO(10)-inspired relation between neutrino Dirac mass and up-quark mass matrix the model's parameter space can be reduced to a few variables that separate nicely into high and low energy regions. A detailed investigation with flavored Boltzmann equations shows that this simple model can reproduce the correct BAU and underlines its dependence on low-energy neutrino observables.

Collaboration name

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