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Leptogenesis in neutrinophilic Higgs doublet models

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We show that in a class of two Higgs doublet model, where one Higgs doublet generates masses of quarks and charged leptons whereas the other Higgs doublet with a tiny vacuum expectation value generates neutrino Dirac masses.

Thermal leptogenesis suitably works at low energy scale.

Its supersymmetric generalization also will be discussed.

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