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Technicolor Assisted Leptogenesis with an Ultra-Heavy Higgs Doublet

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Abstract:

If fermion condensation is a main source of electroweak symmetry breaking, an ultra-heavy Higgs doublet can yield naturally small Dirac neutrino masses. We show that such a scenario can lead to a new leptogenesis mechanism based on the decays of the ultra-heavy Higgs.
We outline how our scenario can also naturally lead to composite asymmetric dark matter. Some potential signals of this scenario are discussed.

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