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# Dark Matter and 2-Steps Leptogenesis in a UV completion of the Inverse Seesaw

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We present a UV-completion of the Inverse-Seesaw model for the Neutrino masses, where 3 right-handed Neutrinos and one extra Higgs doublet are added to the Standard Model. Through the addition of two extra scalar fields, the model provides a natural mechanism for the generation at of the Baryon Asymmetry of the Universe and for thermal Dark Matter. A Global U(1) spontaneously broken explains the smallness of Neutrino masses and strongly constraints the model.

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