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Leptogenesis in natural low-scale seesaw mechanisms

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We consider the possibility of simultaneously explaining Dark Matter and the Baryon Asymmetry of the Universe using different low-scale seesaw realisations involving sterile fermion states (such as right-handed neutrinos), among them minimal realisations of the Inverse seesaw and/or the Linear seesaw. In particular, we discuss the possibility of obtaining a successful leptogenesis in the presence of pseudo-Dirac neutrino pairs, while accommodating all experimental and observational constraints (dark matter, neutrino data, laboratory constraints, etc).

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