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Relic density and baryogenesis from natural SUSY with mixed axion-higgsino dark matter

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We describe an eight-coupled-Boltzmann equation calculation of the mixed axion-higgsino dark matter scenario which is expected from natural SUSY. Typically the relic density is axion dominated unless late decaying axinos or saxions feed the WIMP abundance. While thermal leptogenesis is barely viable, non-thermal and Affleck-Dine leptogenesis remain robust scenarios to generate the matter-anti-matter asymmetry.

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