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Primordial Black Holes and Gravity Wave Signatures of Resonant Nonequilibrium ALP dynamics

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In the context of out of equilibrium radial field dynamics during inflation, ALPs can attain resonantly enhanced perturbation amplitudes. We present how such enhanced amplitudes can lead to a boost in primordial dark matter fraction as well as gravity waves observable by existing and future gravity wave detectors. SUSY embeddings of this class of scenarios will also be discussed.

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