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Balancing the medium response in minimal warm inflation

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Axion-like inflation models have for long been discussed as the radiative corrections that spoil many single-field models are avoided by virtue of its shift symmetry. In addition, the inflaton can generically have an axion-like coupling to non-abelian gauge bosons. It has been shown that this interaction automatically induces a non-diluting thermal bath during inflation leading to a warm-inflation scenario. The peculiarity of a medium response with two physical origins, vacuum and thermal dynamics, leads into interesting phenomenology to describe the early and later stages of inflation. In this work we will study the conditions where these models satisfy Planck constraints, and possibly generate the amplification of scalar and tensor perturbations at the later stages of inflation whenever the thermal contribution dominates.

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