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Time-dependence of primordial power spectrum

Multiple spectator fields are present during inflation, and thus they are expected to interact with the inflaton. We study time-dependent loop corrections to inflationary power spectrum, utilising the Schwinger-Keldysh formalism. We consider a generic interaction between heavy fields and the inflaton, calculate loop corrections to inflaton two-point correlation function, and discuss the effects of such heavy fields on primordial power spectrum.

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