

Chua, Wan Zhen; Ding, Qianhang; Wang, Yi; Zhou, Siyi
Imprints of Schwinger effect on primordial spectra. (English) Zbl 1415.85004
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Summary: We study the Schwinger effect during inflation and its imprints on the primordial power spectrum and bispectrum. The produced charged particles by Schwinger effect during inflation can leave a unique angular dependence on the primordial spectra.

MSC:

- 85A40 Cosmology
- 83F05 Cosmology
- 83C25 Approximation procedures, weak fields in general relativity and gravitational theory
- 85A15 Galactic and stellar structure
- 83C47 Methods of quantum field theory in general relativity and gravitational theory

Keywords:

cosmology of theories beyond the SM; nonperturbative effects

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