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Neutrino non-standard scenarios in cosmology

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We discuss the phenomenology of neutrino decoupling in the early universe, by summarising the details of the calculation in standard and non-standard scenarios. We show how non-standard physics can affect the amount of neutrinos that exist in the universe and how we can adopt cosmological observations in order to constrain neutrino properties such as their mass, effective number, interactions, and non-standard cosmological evolution. Implications for Big Bang Nucleosynthesis are also briefly discussed.

Abstract

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