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Neutrino decoupling in standard and non-standard scenarios

Monday 28 August 2023 15:30 (15 minutes)

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 quickly present the state-of-the-art calculation of the effective number of neutrino species in the early universe (N_{eff}) in the three-neutrino case, which gives $N_{\text{eff}}=3.044$, and show how the result can change when non-standard properties (non-standard interactions, non-unitarity) are considered.

Submitted on behalf of a Collaboration?

No

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