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The effective number of neutrinos: towards a precise calculation in the SM

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The effective number of neutrinos (N_{eff}) is an important cosmological parameter that measures the amount of radiation in the early Universe. Its precise value is necessary to put constraints to models beyond the SM that require extra radiation in the Universe. In the recent years, the progress made in the knowledge about the relevant physical processes that affect the calculation of N_{eff} have allowed the development of a new code for its precise calculation. I will discuss the results of such calculation, focusing on the remaining uncertainties and the improvements made with respect to previous computations.

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