

Scalars 2015

Contribution ID : 9

Leptogenesis during the reheating era

Content :

We propose a novel leptogenesis scenario at the reheating era. Our setup is minimal in the sense that, in addition to the standard model Lagrangian, we only consider an inflaton and higher dimensional operators. After the decay of an inflaton, the model is described within the standard model with higher dimensional operators which induce the violation of the lepton number and the CP violation. It is found that the successful baryogenesis is realized for the wide range of parameters, the inflaton mass and reheating temperature, depending on the cutoff scale.

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Session classification : --not yet classified--

Track classification : --not yet classified--

Type : --not specified--