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Flavor Leptogenesis During Reheating Era

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We have shown that the process of non-instantaneous reheating during the post-inflationary period can have a sizeable impact on the charged lepton equilibration temperature in the early Universe. This suggests a relooking into the flavor effects of leptogenesis where the production and decay of right-handed neutrinos take place within this extended era of reheating. We observe that the decay of the lightest RHN in the set-up not only provides a platform to study flavor leptogenesis during reheating, but also an interesting paradigm of quasi-thermal leptogenesis emerges.

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