

Leptogenesis: A non-relativistic study

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1 Introduction

2 Outline of baryogenesis

One way to describe the observed baryonic asymmetry is by postulating, that the universe has been in an asymmetric state just from the beginning and that the matter and antimatter is concentrated in big domains throughout the universe, which come into contact just at their outer borders.

2.1 Sakharov Conditions

2.2 Baryogenesis in the Standard Modell

2.2.1 Electroweak baryogenesis

2.2.2 Failures of the SM

3 Outline of leptogenesis

3.1 Expandig the SM

4 Non-relativistic leptogenesis