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Leptogenesis: status, recent ideas and perspectives

Friday, 20 September 2013 10:00 (25 minutes)

Leptogenesis from the decay of very heavy neutrinos ($M > 10^8$ GeV) is arguably the most attractive explanation to the origin of the cosmological baryon asymmetry. However this scenario cannot be proved in foreseeable experiments. Therefore we will give an overview of leptogenesis with emphasis on testability vs. plausibility of different models. In connection with this, we will present some results on mass bounds for thermal baryogenesis from particle decays.

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