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Leptogenesis via a first-order phase-transition

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Sterile Neutrinos are an attractive explanation for the masses of Standard Model neutrinos. They may also explain the asymmetry between matter and antimatter in our Universe. We will discuss a scenario in which these sterile Neutrinos acquire a time-dependent (Majorana) mass during a first-order phase-transition. This out-of-equilibrium process may lead to matter-antimatter asymmetry in the lepton sector, which is converted into baryon asymmetry via sphalerons.

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