



ID de Contribution: 1

Type: Non spécifié

Mapping out the direct connection between leptogenesis and CP violation at low energies

mercredi 29 mars 2023 10:15 (15 minutes)

With the help of the exact seesaw formula and a complete Euler-like parametrization of the (3+3) active-sterile neutrino mixing, we establish the most explicit connection between the 18 original seesaw parameters and the 9 derivational parameters associated with the light Majorana neutrinos. Then we explore how thermal leptogenesis responsible for the matter-antimatter asymmetry of the Universe can be directly or indirectly related to CP violation in neutrino oscillations and to some other lepton-number-violating and lepton-flavor-violating processes at low energy scales.

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Classification de Session: High Energy Astrophysics & Particle Physics

Classification de thématique: Particle Physics