

Charge transfer induced by chiral plasma instability

Friday, 3 May 2024 11:30 (1 hour)

It is well known that the weak sphaleron exchanges chemical potentials of left-handed fermions and plays important roles in baryogenesis. In this talk, we will focus on another source of $B + L$ violation, i.e., $U(1)_Y$ Chern-Pontryagin density. We discuss several examples where the charge transfer induced by this term plays a central role in the early Universe.

Primary author: MUKAIDA, Kyohei (KEK)

Presenter: MUKAIDA, Kyohei (KEK)