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Parity solution to the strong CP problem and leptogenesis

Tuesday, May 16, 2023 9:30 AM (25 minutes)

I discuss parity solutions to the strong CP problem which do not need an axion. It is implemented within the context of left-right symmetric models with minimal Higgs content and the universal seesaw mechanism using vector like fermions to generate quark and lepton masses. I discuss a way to understand the origin of matter-anti-matter asymmetry in these models using Affleck-Dine (AD) mechanism. The model has Dirac neutrinos whose small masses arise via the Dirac seesaw. I discuss some phenomenological implications of the model.

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