

# Flavor Invariants and CP Violation in the Leptonic Sector with Majorana Neutrinos

*Tuesday, 17 August 2021 15:40 (15 minutes)*

The flavor invariants, which are invariant under the unitary transformation in the flavor space, turn out to be a powerful tool in studying the CP violation in a model-independent way. In this talk, I will discuss the application of the flavor invariants in constructing the sufficient and necessary conditions of CP conservation in the leptonic sector with Majorana neutrinos. Furthermore, the systematic construction of all the basic invariants using the method of Hilbert series will be briefly introduced.

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**Session Classification:** Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology

**Track Classification:** 4. 中微子物理、粒子天体物理与宇宙学