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Invariant Theory and Leptonic CP Violation

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The invariant theory provides a systematic method to construct quantities that are invariant under group action in terms of model parameters. So far, it has a lot of applications in particle physics. In this talk, I will introduce the basic ingredients of invariant theory and Hilbert series. The application of invariant theory in neutrino physics, and particularly in describing leptonic CP violation, will be discussed.

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