

Non-perturbative effects of loop-induced mixing: Majorana fields and CP violation

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In the loop-induced mixing of multiple flavors of fields, there exist non-perturbative effects which produce phenomenological effects which have been improperly considered so far especially when the mass differences among flavors are small. In this talk, I will discuss how to correctly handle such effects and their phenomenological implications especially in connection with CP violation. I will explicitly discuss only Majorana fields, but similar effects in cases of scalar and Dirac fields will also be discussed briefly.

Presenter: LEE, Chang-Hun (NCTS)

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