

Yukimura Izawa "S4 flavor model with 3HDM"

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The Standard Model fermions, quark leptons, have a generational structure with different masses (mass hierarchy) and mixing of generations (flavour mixing). The Standard Model only assigns parameters to these generational structures, but does not provide a theoretical explanation. In this study, we construct a flavour model that reproduces the generational structure of leptons using the S4 symmetry and the 3 Higgs doublet model(3HDM).

Session Classification: Short talks