

CP violating mode of the stoponium decay into Zh

Tuesday, 4 December 2018 17:30 (15 minutes)

We show that a novel decay mode Zh of the bound state of stop-anti-stop pair in the ground state may have a significant branching ratio if the CP violating mixing appears in the stop sector, even after we apply the stringent constraint from the measurement of the electric dipole moment (EDM) of the electron. We show that the branching ratio can be as large as 10% in some parameter space that it may be detectable at the LHC.

Presenter: TSENG, Po Yen

Session Classification: Parallel Session 2