

Axion potential-a solution to Higgs mass and gravitational wave signals

The axion potential is characterized by a slowly decaying potential with multiple periodic barriers due to non-perturbative effect. By controlling the motion of the axion(-like) field it could provide a natural solution to the Higgs mass. In this talk I will discuss the dynamics of vacuum annihilation and gravitational waves produced from the axion potential, providing a new test of the relaxion mechanism.

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