



Contribution ID: 312

Type: parallel talk

The Z2 Breaking in Twin Higgs

Monday, 8 May 2017 15:15 (15 minutes)

In original twin Higgs model, vacuum misalignment between electroweak and new physics scales is realized by adding explicit Z_2 breaking term. Introducing additional twin Higgs could accommodate spontaneous Z_2 breaking, which explains the origin of this misalignment. I will talk about scenarios on realising the vacuum misalignment in a natural two Higgs double model framework: explicit Z_2 breaking, radiative Z_2 breaking, tadpole-induced Z_2 breaking, and quartic-induced Z_2 breaking. I will address on the radiative Z_2 breaking, in which the Z_2 symmetry is spontaneously broken and the Higgs potential is fully radiatively generated.

Summary

Primary authors: Dr YU, Jiang-Hao (University of Massachusetts Amherst); Dr YU, Jiang-Hao (UMass Amherst)

Presenters: Dr YU, Jiang-Hao (University of Massachusetts Amherst); Dr YU, Jiang-Hao (UMass Amherst)

Session Classification: BSM I