

Stabilizing the EW vacuum

Thursday, 13 June 2019 09:15 (50 minutes)

Although the electroweak vacuum is not absolutely stable, when only Standard Model interactions are considered its lifetime T turns out to be much larger than the age of the Universe. However, T is extremely sensitive to the presence of unknown high energy new physics: the latter can enormously lower T . This poses a serious problem for the stability of our Universe. In this talk I discuss physical mechanisms that “naturally” stabilize the electroweak vacuum.

Presenter: BRANCHINA, Vincenzo (CT)