第九届中国 LHC 物理年会 The 9th China LHC Physics Workshop (CLHCP2023)

Contribution ID: 24 Type: not specified

Theoretical Motivations for Hidden Light Bosons

Thursday, 16 November 2023 16:40 (20 minutes)

The physics beyond the Standard Model (BSM) could be represented by a hidden sector at relatively low energy scales MeV-GeV and feeble couplings to SM. Their presence in our Universe would be revealed through indirect evidences such as small oscillations of SM parameters, cosmological and astrophysical considerations, and the complementary searches in accelerators. Here, I give an overview of these BSM models including axions and hidden photons.

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Session Classification: Theory