



Contribution ID: 40

Type: **not specified**

Heavy Twin Higgs Axion

Heavy axions address the strong CP problem in a robust way, less susceptible to high scale corrections to their potential. We outline a framework for producing a GeV scale axion while simultaneously addressing the other naturalness issue of the Standard Model: the electroweak hierarchy problem. This is done by modifying the twin Higgs framework so that the twin sector has a larger color group while preserving its natural aspects. We also comment on the experimental signatures that can be used to probe this construction.

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Session Classification: Non-SUSY extensions of the Standard Model

Track Classification: Non-SUSY extensions of the Standard Model