

First ECFA WORKSHOP.

Contribution ID: 112

Type: **Parallel session talk**

Higgs Naturalness at a HTE factory

Thursday 6 October 2022 16:00 (20 minutes)

The nature of electroweak symmetry breaking and the Higgs bosons are likely paths to physics beyond the standard model. Neutral naturalness, symmetry based constructions for addressing the electroweak hierarchy problem/puzzle, have garnered increasing interest as LHC bounds on new colored states have increased. These models often predict new electroweak states along with a rich Higgs sector. I provide an overview of ways an HTE factory can explore these scenarios including the direct production of new states and exotic Higgs decays.

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Session Classification: WG 1 - Searches

Track Classification: WG1-SRCH - Physics Potential: Feebly interacting particles, direct low mass searches