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Fermilab

**Induced Electroweak Symmetry Breaking and the Composite (Twin) Higgs**

Induced electroweak symmetry breaking provides an alternative IR structure for a Standard Model-like Higgs in which the SM-like vev is triggered by a small hidden sector electroweak symmetry breaking tadpole. This structure decouples the physical Higgs mass from the quartic term in the Higgs potential, leading to interesting possibilities in UV completions of the Higgs sector as a composite pseudo-nambu goldstone boson (PNGB). This framework can allow the minimal $\sim v^2/f^2$ tuning of some models to be evaded, and is particularly appealing in the case of the composite twin Higgs where neutral top partners cut off the leading contributions to the PNGB potential.

**Wednesday, March 2, 2016**

2:00pm

401 Physical Sciences Building