



Contribution ID: 311

Type: **not specified**

## UV Complete Technicolor and Natural Low Scale Supersymmetry

*Sunday, 28 August 2011 11:15 (20 minutes)*

In this talk, I will briefly review the mechanism of dynamical electroweak symmetry breaking, and show that a class of models that feature a supersymmetric UV completion and use this mechanism can produce a viable mass spectrum with no fine tuning. I will then present an explicit supersymmetric UV complete technicolor model able to pass the precision tests while producing a phenomenologically viable mass spectrum featuring a composite Higgs scalar. I will finally show that present experimental constraints favor supersymmetry at a scale of a few TeVs, and discuss the potential of LHC to observe signals predicted by this supersymmetric technicolor model.

**Presenter:** DI CHIARA, Stefano (CP3-Origins, Southern Denmark University)

**Session Classification:** Parallel Session 1