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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.

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