

Minimal Super Conformal Technicolor at the LHC

Thursday 26 August 2010 16:29 (15 minutes)

We study the Minimal Super Conformal Technicolor (MSCT) in the perturbative regime and show that breaking electroweak symmetry solely by Higgs mechanism does not allow MSCT to satisfy the experimental constraints while retaining perturbativity at the LHC scale. We conclude that a dynamical contribution to electroweak symmetry breaking is necessary for the model to be possibly viable at the LHC.

Primary authors: Prof. SANNINO, Francesco (CP3-Origins, Southern Denmark University); Prof. TUOMINEN, Kimmo (CP3-Origins, Southern Denmark University); Mr ANTOLA, Matti (University of Helsinki, HIP); Dr DI CHIARA, Stefano (CP3-Origins, Southern Denmark University)

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

Session Classification: Model Building 26-2 Chair: J. Reuter

Track Classification: Model