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Composite versus Elementary Higgs: Problems and Progress

Friday, 19 December 2014 11:30 (1 hour)

I will critically introduce, classify and discuss the fundamental open issues related to either composite or elementary Higgs extensions of the standard model. As for the progress I will exhibit, among other things, our first proof of existence of nonsupersymmetric Gauge-Yukawa theories (structurally identical to the standard model) which are UV finite thanks to the existence of an exact calculable quantum UV fixed point. I will then comment on the possible phenomenological impact of this discovery

Presenter: FRANCESCO SANNINO