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Reducing Fine Tuning in Composite Higgs Models

Thursday, 5 October 2017 17:00 (20)

Composite Higgs models (CHMs) are a popular solution to the SM hierarchy problem. However, they typically require an unsatisfying degree of fine tuning to reproduce the observed SM Higgs and top masses. I will present an overview of typical CHMs, including where their sources of fine tuning can be found. To analyse the interdependencies between observables in models such as these, a more sophisticated measure of fine tuning will be introduced. This new measure will be applied to several recent CHMs, which have been developed from either higher dimensional arguments, or from fundamental interactions. Some strategies for producing a natural Composite Higgs will be discussed.

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