Contribution ID: **209** Type: **Oral**

Lattice investigation of a composite Higgs model

Monday, 20 May 2019 14:20 (20 minutes)

In composite Higgs models, relating the many parameters of the low-energy effective theory to the fundamental UV parameters requires dealing with the underlying non-perturbative interactions responsible for compositeness. Lattice field theory calculations allow this connection to be made numerically, giving significant model constraints. I will present several results from a detailed lattice study of a particular composite Higgs model, based on an SU(4) gauge group with fermions in two different representations.

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Session Classification: Alternatives to Supersymmetry

Track Classification: Alternatives to Supersymmetry