



MEETING OF THE AMERICAN PHYSICAL SOCIETY DIVISION OF PARTICLES AND FIELDS

Contribution ID: 235

Type: **Presentation**

Spectroscopy of lattice SU4 gauge theory with fermions in multiple representations

Tuesday, 1 August 2017 10:45 (16 minutes)

We study the spectroscopy of an SU(4) gauge theory with dynamical fermions in both the fundamental and the two-index antisymmetric representations.

Such theories are of interest in the study of Physics Beyond the Standard Model, specifically in the context of partial compositeness. We discuss the spectrum of this theory and its implications.

Primary author: Dr AYYAR, Venkitesh (University of Colorado, Boulder)

Co-authors: Prof. SVETITSKY, Benjamin (Tel Aviv University); HACKETT, Daniel (University of Colorado, Boulder); Prof. NEIL, Ethan (University of Colorado, Boulder); Prof. DEGRAND, Thomas (University of Colorado, Boulder); Mr JAY, William (University of Colorado, Boulder); Prof. SHAMIR, Yigal (Tel Aviv University)

Presenter: Dr AYYAR, Venkitesh (University of Colorado, Boulder)

Session Classification: Beyond Standard Model

Track Classification: Beyond Standard Model