

MAR13-2012-020325

Abstract for an Invited Paper  
for the MAR13 Meeting of  
the American Physical Society

**Beyond standard model physics using lattice techniques**

ARI HIETANEN, CP3-Origins, University of Southern Denmark

I will review the recent results of beyond standard model lattice calculations. The focus is on the models of dynamical electroweak symmetry breaking, Technicolor, and dark matter. A lot of effort has been devoted to finding out which models are conformal and which exhibit a chiral symmetry breaking. Lately also phenomenologically interesting observables, like mass anomalous dimension, glueball spectrum, and a contribution to scalar meson mass, have been calculated. I will briefly comment about the implications of these calculations to the phenomenology.