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Reconstruction of spectral densities in a composite-Higgs model

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Composite Higgs models are a popular solution to the Naturalness problem in the Higgs sector, where the mass of the Higgs bosons is explained in terms of Goldstone dynamics. We address a composite model described by a $SU(4)$ gauge group with fermions in the fundamental and two index anti-symmetric representations of the gauge group. We will show results from lattice simulations investigating the chiral limit of this theory with a focus on the multi-representation dynamics and the reconstruction of spectral densities from lattice correlators.

Primary author: LUPO, Alessandro (University of Edinburgh)

Co-authors: DEL DEBBIO, Luigi (University of Edinburgh); PANERO, Marco (Università di Torino/ INFN Torino); TANTALO, Nazario (University of Rome Tor Vergata)

Presenter: LUPO, Alessandro (University of Edinburgh)

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