

Flavor hierarchies from dynamical scales

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One main obstacle for any BSM scenario solving the hierarchy problem is its potentially large contributions to electric dipole moments. An elegant way to avoid this problem is to have the light SM fermions couple to the BSM sector only through bilinears. This possibility can be neatly implemented in composite Higgs models by dynamically generating the fermion Yukawa couplings at different scales and relating larger scales to lighter SM fermions. In this way, all flavor and CP-violating constraints can be easily accommodated for a BSM scale of few TeV, without requiring any extra symmetry. Contributions to B physics are mainly mediated by the top, giving a predictive pattern of deviations in flavor observables that could be seen in future experiments.

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