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Fermionic UV Completions of Composite Higgs Models

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We present some four-dimensional purely fermionic gauge theories that
give a UV completion of composite Higgs models. We start at the group theoretical level, addressing the necessary (but not sufficient) conditions for the viability of these models, such as the existence of top partners and custodial symmetry. We then study the dynamics of one of the most promising models, based on a SU(4) hyper-color group in more detail.

Work based on JHEP 1403 (2014) 077 [arXiv:1312.5330] and JHEP 1406 (2014) 142 [arXiv:1404.7137]

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