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Models of partial compositeness in four dimensions

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We review models of partial compositeness based on underlying four dimensional gauge theories with fermionic matter.

The matter content is chosen in such a way as to give rise to a Higgs boson as a pseudo-Nambu–Goldstone boson as well as a Dirac-like partner to the top quark. We discuss recent lattice results (by other groups) and their relevance to these constructions.

We conclude by presenting one universal aspect of the phenomenology of these models, namely the presence of axion-like particles at relative low mass, and discuss their experimental signatures.

Author: FERRETTI, Gabriele

Presenter: FERRETTI, Gabriele

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