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The conformal window in theories beyond QCD

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Fixed points in gauge theories with fermions have been studied for a long time, and their presence or absence has been mapped out quite thoroughly in the so-called conformal window. However, by adding scalar particles to the theory, many more things can happen as the Yukawa and quartic interactions greatly influence the running of the couplings. We will discuss the structure of fixed points in gauge-Yukawa theories, and see how dramatic features can occur as a result of including scalars. The question of how trustworthy these new features are is of the utmost importance, and one we will thoroughly address.

<http://arxiv.org/abs/arXiv:1205.6157>

<http://arxiv.org/abs/arXiv:1303.1525>

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