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Asymptotically Safe QCD

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We discuss the possibility that QCD is not asymptotically free and develops instead an interactive UV fixed point. This can happen if the Standard Model is extended by a set of N_F vector-like fermions that transform non-trivially under $SU(3)_c$, with Yukawa-type interactions mediated by a $N_F \times N_F$ matrix scalar field. We point out that the 750 GeV diphoton excess can be explained within such a framework.

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