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Running coupling of twelve flavors

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Numerical results are reported on the discrete β -function of $SU(3)$ gauge theory with $N_f = 12$ fundamental fermions in the gradient flow scheme. Controlled continuum extrapolation is performed for $s = 2$ scale change with $c = \sqrt{8t}/L = 0.2$ targeting 3 tuned values of the renormalized coupling, approximately $g^2 = 6.0, 6.2$ and 6.4 . Contrary to a previous claim, no evidence is found for a zero of the continuum β -function.

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