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A dynamical study of the chirally rotated Schrödinger functional in QCD

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The chirally rotated Schrödinger functional for Wilson quarks allows for finite-volume, mass-independent renormalization schemes compatible with automatic $O(a)$ -improvement. So far, in QCD, the setup has only been studied in the quenched approximation. Here we present first results for $N_f=2$ dynamical flavors for several renormalization factors of quark bilinears. We discuss how such renormalization factors can be easily obtained from simple ratios of two-point functions, and show how automatic $O(a)$ -improvement is at work. We then compare our results with previous Schrödinger functional determinations.

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