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Chiral and Large N_c limit of QCD

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We present preliminary results for a lattice study of the chiral and continuum limit of pseudoscalar mass and decay constant for $SU(N_c)$ gauge theory with $N_c = 3, 4, 5$ colors and $N_f = 2$ degenerate fermions. Clover fermions are used. We fit these observables to predictions of Wilson chiral perturbation theory. Model-averaging is used to determine an appropriate range of quark masses for the fits. We extrapolate our results to large N_c . The goal is to produce continuum numbers for the large N_c limit of QCD, and to compare our results with other approaches to this limit

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