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QCD Rotator with Light Quarks up to NNL Order

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We consider 2-flavour QCD with light quark masses in a small spatial box, where the low lying excitations are that of an O(4) rotator. This problem can be treated in chiral perturbation theory (δ -regime). Up to NNL order the final result depends only on a few low energy constants F, Λ_1 , Λ_2 and B. Comparing these results with that of numerical simulations in QCD should help to measure these low energy constants to good precision.

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talk

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