



Contribution ID: 211

Type: **not specified**

QCD Rotator with Light Quarks up to NNL Order

Tuesday, 15 June 2010 08:50 (20 minutes)

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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Session Classification: Parallel 23: Chiral symmetry

Track Classification: Chiral symmetry