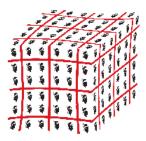
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Contribution ID: 181 Type: not specified

Results for light pseudoscalar mesons

Tuesday, 15 June 2010 10:30 (20 minutes)

We present results from the MILC collaboration's analysis of the light pseudoscalar meson sector. All of our asqtad staggered ensembles with 2+1 dynamical quark flavors have now been completed and analyzed, including lattice spacings down to 0.045 fm, and light quark masses down to 0.05 times the strange mass. We compare the results from SU(3) and SU(2) chiral perturbation theory; both sets of fits include the continuum NNLO chiral logarithms. We obtain results for decay constants, quark masses, NLO and NNLO low energy constants, and the condensates in the two- and three-flavor chiral limits.

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talk

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Session Classification: Parallel 24: Chiral symmetry

Track Classification: Chiral symmetry