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Absolute Measure of Local Chirality and the Chiral Polarization Scale of the QCD Vacuum

Tuesday, 15 June 2010 18:00 (5 minutes)

We champion use of the absolute measure of local chirality since it has a uniform distribution for randomly reshuffled chiral components so that any deviations from uniformity in the associated “X-distribution” are directly attributable to QCD-induced dynamics.

We observe a transition in the qualitative behavior of the absolute X-distribution of low-lying eigenmodes which, we propose, defines a chiral polarization scale of the QCD vacuum.

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poster

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