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QUANTUM CHROMODYNAMICS AT FINITE TEMPERATURE: THE QCD SUM RULE APPROACH

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Abstract content

The method of QCD sum rules at finite temperature is based on the operator product expansion of current correlators at short distances, and on the concept of quark/gluon-hadron duality. After an introduction to this method, its extension to finite temperature will be discussed, together with several applications. These will include chiral symmetry restoration, and quark-gluon deconfinement, with emphasis on recent results for Charmonium in the vector, scalar, and pseudoscalar channel.

Summary

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