Contribution ID : 90

## QUANTUM CHROMODYNAMICS AT FINITE TEMPERATURE: THE QCD SUM RULE APPROACH

Tuesday, 9 November 2010 16:45 (0:30)

## 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

**Primary author(s) :** Prof. DOMINGUEZ, CESAREO (UNIVERSITY OF CAPE TOWN, DEPART-MENT OF PHYSICS)

**Presenter(s) :** Prof. DOMINGUEZ, CESAREO (UNIVERSITY OF CAPE TOWN, DEPARTMENT OF PHYSICS)

Session Classification : Session I LHC.SM.BSM

Track Classification : LHC physics: Standard Model and Beyond