



Contribution ID: 227

Type: **Talk**

Quark-hadron duality at finite temperature : Local Correlators in the hadron resonance gas

Wednesday 1 August 2018 15:20 (20 minutes)

We analyze the role of high spin hadronic states in the correlation functions of conserved charges such as baryon and electric charge and strangeness at finite temperature. The corresponding integrated quantities correspond to (global) thermal fluctuations and their related susceptibilities are well known from lattice QCD. At the local level we conjecture an interesting duality between the correlators at zero temperature, and the fluctuations of integrated quantities at low temperatures.

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Session Classification: Deconfinement

Track Classification: D: Deconfinement