



Contribution ID: 284

Type: **Talk**

Glue Condensate, Quark Condensate and Dirac Spectral Density

Thursday 6 November 2025 14:30 (20 minutes)

I derive the regularized formula for glue scalar density (gluon condensate) in terms of Dirac spectral density [arXiv:2509.03509], and elaborate on its uses and meaning. Particular attention will be given to understanding of what this new formula reveals about the relation between glue and quark scalar densities, how it clarifies the distinction between anomalous and spontaneous ways of breaking symmetries, and what it says about the relation between UV and IR in QCD.

Parallel Session (for talks only)

Theoretical developments and applications beyond Standard Model

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Session Classification: Theoretical developments and applications beyond Standard Model