



Beitrag ID: 27

Typ: **Talk**

## **Constraining Color-superconducting Low-energy Model from First Principle QCD**

*Mittwoch, 17. September 2025 17:00 (15 Minuten)*

In this talk I will show how the functional renormalization group (FRG) can be used to constrain low energy model for quark-matter, with a focus on color superconductivity. Working in vacuum, I will explain how the FRG can be used describe both the non-perturbative behavior of the glue sector, and how low-energy degrees of freedom (in particular the sigma, pion and scalar diquark) can be included. I will explain why this approach is valuable at finite temperature and densities, and give outlooks regarding applications at asymptotic chemical potentials.

**Autor:** MIRE, Ugo (University of Giessen)

**Vortragende(r):** MIRE, Ugo (University of Giessen)

**Sitzung Einordnung:** Talks