Beitrag ID: **37** Typ: **Talk**

Implicit Regularization and medium effects in the NJL model.

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We explore some regularization prescriptions and how they impact the effective potential and the gap equation. We also explore the role of the integration measure/geometry in momentum space in symmetry breaking. We conclude that every regularization prescription and geometry greatly affect the properties of symmetry breaking/restoration. We also propose a modified representation of proper time, that does not interchange divergences in the effective potential. Finally, with this representation we propose a way to include thermal effects that can be extended to other agents like magnetic field and finite volume.

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Sitzung Einordnung: Talks