SEMINÁŘ OTF ÚJF, ŘEŽ

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PNJL model: reconciling confinement with chiral symmetry breaking

Abstrakt

I will review the phenomenological approach to confinement and chiral symmetry breaking in QCD, based on augmenting the Nambu–Jona-Lasinio model with an order parameter for (de)confinement: the Polyakov loop. I will outline the construction of the PNJL model and point out its virtues as well as limitations. If time permits, I will also discuss the application of this model to QCD-like theories, where lattice simulations at high density are available and may thus provide a useful insight into the behavior of strongly-interacting cold and dense matter.

Seminář se koná v pondělí 2. 11. 2009 v 15:00 hod.
v zasedací místnosti ÚJF Řež

A. Cieplý/otf