

利用推广的 NJL 模型研究高密物质

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We propose a new theoretical framework to investigate the properties of baryonic matter, quark matter, and their mixed phases based on an extended Nambu-Jona-Lasinio(eNJL) model, where the Dirac sea, the spontaneous chiral symmetry breaking, and the quark degrees of freedom are considered by extending the SU(3) NJL model and treating baryons as clusters of quarks. The eNJL model can then be readily adopted to examine the matter states ranging from baryonic matter to quark matter in a unified manner, which will be illustrated in this talk.

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