Société Française de Physique

ID de Contribution: **166** Type: **Non spécifié**

Dense matter within RHF approaches

mercredi 26 octobre 2022 12:00 (30 minutes)

Understanding dense matter presents a big challenge at the actual time. On one hand QCD, the fundamental interaction of nuclear matter is known to be non-perturbative at such low energy regimes, and on the other hand relying on numerical approaches to solve QCD, also known as lattice QCD, is blocked by what is known as the “sign problem”.
Thus effective nuclear modeling may be employed to tackle the problem and efforts have been made to connect those descriptions to the fundamental theory of QCD, in particular its chiral properties. In this talk, I present one of those models, the Relativistic Hartree-Fock with chiral symetry and confinement (RHF-CC).

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Classification de Session: Nuclear Physics

Classification de thématique: Nuclear Physics