Contribution ID: **0** Type: **not specified**

Inhomogeneous condensation in dense nuclear matter

Saturday 17 January 2015 17:20 (25 minutes)

We investigate the emergence of inhomogeneous condensation at nonzero density in effective models of QCD. In particular, we present results for the chiral density-wave solution in nuclear matter in the so-called extended linear sigma model, which is an effective hadronic model. Then we test more general forms of inhomogeneous condensation in QCD-ispired models models in 1+1 dimensions (Gross-Neveu model and variants of it) and in 1+3 dimensions (Nambu Jona-Lasinio model).

Primary author: GIACOSA, Francesco (JW Goethe University)

Co-authors: Dr HEINZ, Achim (Goethe Univ. Frankfurt am Main, Frankfurt, Germany); RISCHKE, Dirk (University Frankfurt); WAGNER, Marc (Goethe University Frankfurt)

Presenter: GIACOSA, Francesco (JW Goethe University)

Session Classification: Properties of nuclear matter