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Dynamics of nonhomogeneous chiral condensates

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Content

We present results on a study of the dynamics of the formation of nonhomogeneous phases of the chiral transition transition in QCD. The possibility of the formation of a spatially modulated chiral condensate in the final stages of a heavy-ion collision is investigated assuming a Ginzburg-Landau-Langevin time evolution, using a free energy functional motivated by the Nambu—Jona-Lasinio model. Time scales for the formation of nonhomogeneous condensates are contrasted with the expansion rate of the medium, modelled in the present wortk by one-dimensional Bjorken flow.

Session

Proton structure, small and large x physics

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