

Fluctuation Phenomena in Dense quark Matter

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We investigate quark matter in the pre-critical fluctuation region of the QCD phase diagram. The soft collective mode of the quark pair field is derived using the time-dependent Ginzburg-Landau functional with random Langevin forces. We calculate the electrical conductivity, sound absorption and bulk viscosity at nonzero density and moderate temperature. This regime will be realized in future experiments at NICA and FAIR.

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