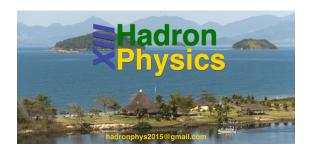
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Phase structure of cold magnetized color superconducting quark matter

The phase diagrams for cold color superconducting quark matter are obtained in the frame of SU(2)_f NJL model in the presence of magnetic field and chemical potential. Two sets of parameters and different values for the quark-quark and quark-antiquark couplings ratios were considered to study how the phase diagram is modified.

The regularization procedure is discussed, showing that dimensional regularization removes in a natural way the unphysical oscillations in the order parameters with respect to other regularizations types discussed in the literature.

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