

Magnetized QCD phase diagram from the point of view of chiral symmetry restoration

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In this talk, we present an analysis performed within the Linear Sigma Model coupled to quarks, where the restoration of the chiral symmetry is studied both at finite temperature and baryon chemical potential in the presence of a constant in time and uniform magnetic field. The features of this transition are studied in the QCD phase diagram. We discuss the modification of the transition lines in the phase diagram induced by the field strength.

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