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QCD phase diagram and magnetic fields

Friday 12 May 2017 18:30 (30 minutes)

We examine possible effects of an external magnetic field on the phase diagram structure of QCD. The study is performed using NJL-type models. We focus on the influence of a magnetic field on the chiral and deconfinement phase transitions. Possible consequences of the Inverse Magnetic Catalysis effect on the QCD phase diagram at both finite chemical potential and temperature is analyzed. We devote special emphasis on how the location of the Critical-End-Point (CEP) changes in a magnetized medium.

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Session Classification: Friday Afternoon (20min talks + 10min discussions)