Contribution ID: 10 Type: 口头报告

Correlations and fluctuations in a magnetized PNJL model with and without inverse magnetic catalysis effect

Sunday, 27 April 2025 10:50 (20 minutes)

The correlation $\chi_{11}^{BQ}, \chi_{11}^{BS}, \chi_{11}^{QS}$ and fluctuations $\chi_{2}^{B,Q,S,T}, \chi_{4}^{B,Q,S,T}$ of baryon number B, electric charge Q, strangeness number S and temperature T are investigated in a Polyakov loop extended Nambu-Jona-Lasinio (PNJL) model at finite temperature and magnetic field. The inverse magnetic catalysis (IMC) effect is introduced through the magnetic field dependent parameters G(eB), K(eB) or $T_0(eB)$. We will discuss the effect of external magnetic field on these quantities, and make comparison of the results in the cases with and without IMC effect.

Primary author: Prof. 毛, 施君 (西安交通大学)

Presenter: Prof. 毛, 施君 (西安交通大学)

Session Classification: 分会场一