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Type: **Poster presentation**

2 + 1 flavor quarks thermodynamics in a magnetic field model with chemical potential

Thursday, 7 October 2021 18:45 (5 minutes)

We continue our research work for 2 + 1 flavor quarks with magnetic field cooperating non-zero chemical potential in the thermal mass and magnetic field in the potential of the Lagrangian density. The calculated results of EOS of 2+1 flavor quarks with non zero chemical potential has found to be enhanced from earlier works of others for 2+ 1 flavor quarks at the unmagnetized PNJL model. The result shows an enhancement up to the temperature $T = 2.2T_c$ and a very similar track with lattice beyond $2.2 T_c$. This implies that the introduction of chemical potential and magnetic field plays importance in the calculation of all thermodynamic parameters for 2 + 1 flavor quarks. So, the 2 + 1 flavor quarks PNJL model with the magnetic field and finite chemical potential provides better thermodynamics results.

Is this abstract from experiment?

No

Name of experiment and experimental site

N/A

Is the speaker for that presentation defined?

Yes

Details

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Internet talk

Yes

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