

The LSMq to locate the CEP

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We use the linear sigma model coupled to quarks to compute the effective potential beyond the mean field approximation, including the contribution of the ring diagrams at finite temperature and baryon density and the thermal corrections of the coupling constants. This effective potential is then used to study the fluctuations of the order parameter v . In this work, we specifically localize the critical end point in the baryon chemical potential-temperature plane.

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