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Quark susceptibility calculation under one loop correction in the mean-field potential

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We calculate quark susceptibility and thermodynamic parameters with one loop correction in mean field potential. The calculation shows the susceptibility up to the range of temperatures $T = 0.6$ GeV. The susceptibility lies in the range of lattice results.

Moreover the thermodynamic properties like entropy and specific heat also shows similar outputs with the recent calculations and agree with the lattice results.

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