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## EVOLUTION OF QUARK-GLUON PLASMA AND QUARK-HADRON PHASE TRANSITION

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We study the effect of thermal quark mass in the free energy evolution of a quark-gluon plasma using simple statistical model after incorporating the curvature term. In this study, the thermal quark mass is dependent on parametrization factor and temperature. Also a thermodynamic variable like entropy and specific heat show a nature of phase transition. The results are found to produce significant improvements over earlier results

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