Contribution ID : **38** Type : **not specified**

QCD phase transition for various number of flavours

среда, 10 ноября 2021 г. 11:30 (30)

We discuss thermal QCD phase transition for various number of flavours. We review the results for the transition from $N_f = 3$ to larger values. We discuss the universality class for $N_f = 2$, along the critical line for two massless light flavours and a third flavour whose mass serves as an interpolator between $N_f = 2$ and $N_f = 3$. We identify a possible scaling window for the 3D O(4) universality class transition and its crossover to a mean field behaviour.

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Session Classification : Morning session 5

Track Classification : Lattice Simulations for Hadron Phenomenology