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Deconfinement transition in QCD near the heavy quark limit

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We study the order of the deconfinement phase transition in QCD with Wilson quarks near the heavy quark limit.

We identify the transition from the shape of an effective potential computed from the histogram of the plaquette.

We find that the first order transition of the heavy quark limit gets weaker as the quark mass decreases and turns into a crossover at a finite quark mass.

We estimate the end point κ_{ep} of the first order phase transition.

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talk

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