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Curvature of the pseudo-critical line in QCD: comparison of analytic continuation and Taylor expansion methods

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We study the curvature of the pseudo-critical line in $N_f=2+1$ QCD through numerical simulations performed using the tree-level Symanzik gauge action and the stout-smearred staggered action. The location of the phase transition is determined from the inflection point of the renormalized chiral condensate and the curvature coefficient is calculated using the Taylor expansion adopting various definitions. We also compare our findings with previous results available in the literature.

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