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Critical endpoint in the continuum limit and critical endline at $N_t = 6$ of the finite temperature phase transition of QCD with clover fermions

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We investigate the critical endpoints of the finite temperature phase transition of QCD at zero chemical potential. We employ the renormalization-group improved Iwasaki gauge action and non-perturbatively O(a)-improved Wilson-clover fermion action. The critical endpoints are determined by using the intersection point of kurtosis, employing the multi-parameter, multi-ensemble reweighting method. We present results for the critical endline at N_t = 6 and the continuum extrapolation for the critical endpoint of the SU(3)-flavor symmetric point including newly generated data at $N_t = 12$.

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