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Towards the continuum limit of the critical endline of finite temperature QCD

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We report on preliminary results for the critical endpoint of finite temperature phase transition of $N_f = 3$ QCD at $N_t = 10, 12$ and the critical endline of $N_f = 2 + 1$ QCD at $N_t = 6$ around the SU(3)-flavour symmetric point.

We employ the renormalization-group improved Iwasaki gauge action and non-perturbatively $O(a)$ -improved Wilson-clover fermion action.

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