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Curvature of the QCD critical line with 2+1 HISQ fermions

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We present results on the curvature of the critical line of QCD with 2+1 HISQ fermions at nonzero temperature and quark density obtained by analytic continuation from imaginary chemical potentials. Monte Carlo simulations are performed by means of the MILC code suitably modified to include a nonzero imaginary baryon chemical potential. We set the chemical potential at the same value for the three quark species, and we work on a line of constant physics with a light to strange mass ratio of 1/20.

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