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Roberge-Weiss transition end points with Wilson and improved KS fermions

Lattice QCD simulation results on the locations of the tricritical points of QCD with imaginary chemical potential are presented. Simulations are carried out with Wilson fermions. The simulations show that the two tricritical points are within the range 0.070–0.080 and 0.120–0.140, respectively. Symanzik improved gauge action and Asqtad fermion action are also being employed to address the location of tricritical points.

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