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The Roberge-Weiss endpoint in (2+1)-flavor QCD with background magnetic fields

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In this work we discuss our results on the Roberge-Weiss (RW) transition at imaginary chemical potentials and in the presence of background magnetic fields. We perform lattice QCD simulations on $N_t = 6, 8$ lattices with 2+1 flavors of stout-staggered fermions at physical quark masses and the tree-level Symanzik improved gauge action. We determine the location the RW endpoint at finite magnetic fields and we study the order of the transition.

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