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The pseudocritical temperature of QCD in a magnetic background

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We study the effect of an external static magnetic field of strength comparable with the QCD scale $\Lambda_{QCD} \sim$ 200 MeV on the deconfinement/chiral restoration transition. Lattice simulations have been carried out with $2 + 1$ flavours, Symanzik three-level improved gauge action and stout improved rooted staggered fermions. In particular, the dependence of the pseudocritical temperature T_c on the magnetic field strength has been investigated. The pseudocritical temperature has been measured through different fermionic observables such as the renormalized chiral condensate and chiral susceptibility.

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