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Lattice simulation of QC_2D with $N_f = 2$ at non-zero baryon density

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We present the results of lattice simulation of QC_2D with two flavors of staggered fermions and non-zero chemical potential (μ_q). Dependencies of the Polyakov loop, chiral condensate and baryon number density on μ_q were studied. We found, that raising of the baryon chemical potential leads to the chiral symmetry restoration. At small μ_q our results for the baryon density agree with ChPT predictions.

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