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Study of confinement/deconfinement transition in cold dense matter in QCD-like theories

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In this report we present the results of our studies of confinement/deconfinement transition in cold dense quark matter in QCD-like theories. In particular, we are going to study two-color QCD at large baryon density and three-color QCD at large isospin density. It is known that these theories are free from sign problem what allows us to apply lattice simulation. We found that at sufficiently large baryon density (for two colors) and large isospin density (for three colors) these systems transfer from confinement to deconfinement phase. We also present our results of the study of the properties of these systems in the region of large baryon/isospin densities.

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