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Deconfined phase transition in dense and hot QCD at large N ARIEL ZHITNITSKY, University of British Columbia — We conjecture that the confinement- deconfinement phase transition in QCD at large number of colors N and $N_f \ll N$ at $T \neq 0$ and $\mu \neq 0$ is triggered by the drastic change in θ behavior. The conjecture is motivated by the holographic model of QCD. The conjecture is also supported by a number of numerical lattice results. Based on papers: Phys.Rev.D78:125002,2008, Nucl.Phys.A813:279-292,2008.

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