

Abstract Submitted
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QCD Equation of State and Phase Diagram from Holographic Black Holes JOAQUIN GREFA, CLAUDIA RATTI, ISRAEL PORTILLO, University of Houston, ROMULO ROUGEMONT, UFRN, JACQUELYN NORONHA-HOSTLER, JORGE NORONHA, University of Illinois at Urbana-Champaign — By using the holographic model from [1], which reproduces the lattice QCD equation of state for small baryon chemical potential and predicts a critical end point, we locate the first order phase transition line, and obtain the QCD equation of state for a large region in the QCD phase diagram. We calculate the critical exponents for the holographic critical point and compare them with other critical points from the literature. [1] Critelli, R., Noronha, R., Noronha-Hostler, J., Portillo, I., Ratti, C., Rougemont, R. Phys.Rev.D 96 (2017) 9, 096026

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