

Abstract Submitted  
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**Critical behavior in mean-field hadronic transport**<sup>1</sup> AGNIESZKA SORENSEN WERGIELUK, University of California, Los Angeles, VOLKER KOCH, Lawrence Berkeley National Laboratory — We develop a relativistic density functional parameterization of the QCD equation of state and use it in a hadronic transport simulation. We investigate the behavior of nuclear matter in a number of scenarios, including initialization within the spinodal region and in the vicinity of a critical point of the QCD phase transition. In particular, we analyze the time evolution of experimentally accessible observables sensitive to the existence of the QCD critical point.

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