

Abstract Submitted
for the APR20 Meeting of
The American Physical Society

Identifying critical behavior in heavy-ion collision observables: a mean-field hadronic transport approach¹ AGNIESZKA WERGIELUK, University of California, Los Angeles, VOLKER KOCH, Lawrence Berkeley National Laboratory — A relativistic density functional parameterization of the QCD equation of state is used in a hadronic transport simulation of nuclear matter. The behavior of the system is analyzed in a number of scenarios, including initialization within the spinodal region of the QCD phase transition. An analysis of the dynamic evolution of observables expected to carry an experimental signal for the existence of the QCD critical point is performed.

¹This material is based upon work supported by the U.S. Department of Energy, Office of Science, Office of Nuclear Physics, under contract number DE-AC02-05CH11231.

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Date submitted: 10 Jan 2020

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