Bottomonium suppression at RHIC and LHC\textsuperscript{1} BRANDON KROUPPA, Kent State University, ALEXANDER ROTHKOPF, Heidelberg University, RADOSLAW RYBLEWSKI, Polish Academy of Sciences, MICHAEL STRICKLAND, Kent State University — Bottomonium suppression has long been discussed as a probe of quark-gluon plasma dynamics in ultra-relativistic heavy ion collisions and has been observed at both the LHC and RHIC particle accelerators. Using a realistic hydrodynamic background, we compute the suppression of bottomonium states and compare to data from STAR 200 GeV/nucleon and CMS/ALICE collisions, both at 2.76 TeV/nucleon and 5.02 TeV/nucleon collision energies. We find that models which incorporate in-medium suppression of heavy quark bound states can explain experimental observations reasonably well and that the level of suppression is incompatible with only cold nuclear matter effects. Recent work incorporates a lattice-vetted heavy-quark potential and regeneration effects on bottomonium states.

\textsuperscript{1}B.K. and M.S. were supported by the U.S. D.O.E., Office of Science (DE-SC0013470). A.R. was supported by the DFG Collaborative Research Centre SFB 1225 (ISOQUANT). R.R. was supported by Polish National Science Center (DEC-2012/07/D/ST2/02125).

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Date submitted: 10 Jan 2018

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