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The onset of the baryonic density in HD-QCD at low temperature

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We use the heavy dense approximation of QCD (HD-QCD) at next-to-leading order (NLO) in the hopping expansion, keeping the full Yang-Mills action. We perform simulations at low temperatures, in the region below $1/3 T_c(\mu=0)$, and at large μ , μ/T above 5. We analyse the structure in the baryonic density and other quantities at the onset. We present data from reweighting (RW) and complex Langevin equation (CLE) calculations for 2 flavours of Wilson fermions, and discuss the results.

Primary author: STAMATESCU, Ion-Olimpiu (Inst. Theor. Physik, Universitaet Heidelberg)

Co-authors: JAEGER, Benjamin (Physics Dept., Swansea University); SEXTY, Denes (Inst. Theor. Physik, Universitaet Heidelberg); SEILER, Erhard (Max Planck Inst. f. Physik, Muenchen); AARTS, Gert (Physics Dept., Swansea University)

Presenter: STAMATESCU, Ion-Olimpiu (Inst. Theor. Physik, Universitaet Heidelberg)

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