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Bjoern Bringmann* (bringmann@math.ucla.edu). *Invariant Gibbs measure for the three-dimensional wave equation with a Hartree nonlinearity.*

In this talk, we discuss the invariance of the Gibbs measure for the three-dimensional wave equation with a Hartree nonlinearity. The most interesting aspect is the singularity of the Gibbs measure with respect to the Gaussian free field. The singularity has several consequences in both measure-theoretic and dynamical aspects of our argument. Most importantly, we rely on a novel adaptation of Bourgain's globalization argument. (Received September 02, 2020)