

Geometry and computability at zero temperature

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In this talk we discuss the geometry and computability (in the sense of computable analysis) of certain thermodynamic invariants at zero temperature. In particular, for subshifts of finite type we present some recently obtained computability results for the residual entropy (roughly speaking the maximal entropy at zero temperature) and the geometric structure of the space of local constant potentials in terms of their zero-temperature measures. The results presented in this talk are joint works with Michael Burr and Yun Yang.