

Sensitive dependence of Gibbs measures

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In this talk we will discuss the notion of chaotic temperature dependence in deterministic systems. This notion introduced by van Enter and Ruzsel consists in the divergence of the Gibbs states when the temperature goes to zero. We will review some examples of van Enter and Ruzsel, and Chazottes and Hochman which have chaotic temperature dependence. By modifying their constructions, we show that an even stronger phenomenon occurs. Finally we show that some families of quadratic-like maps (perturbations of the quadratic family) display the same phenomenon.