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Cover Story (view full-size image) The dispute regarding the problem of thermalization in a dynamical system of interacting classical atoms began in 1876 It was resolved by dynamical chaos theory with exponential instability of motion. We seek to extend this dispute to the quantum world of cold atoms in an isolated Sinai oscillator trap with single atom eigenstates described by quantum chaos. Here, the dynamical thermalization of many-body quantum system emerges only at interactions above a border given by the Åberg criterion. [View this paper.](#)

