

The spectral norm, rigidity and all that

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The spectral norm is an important invariant of a Hamiltonian diffeomorphism and its properties have recently found numerous non-trivial applications to dynamics. We will explore the behavior of the spectral norm under iterations of a Hamiltonian diffeomorphism and some related phenomena. This feature is closely related to the existence of invariant sets (the Le Calvez-Yoccoz type theorems), Hamiltonian pseudo-rotations, rigidity and the strong closing lemma. The talk is based on joint work with Erman Cineli and Viktor Ginzburg.