

## **Finiteness of measures maximizing the entropy for surface diffeomorphisms**

Sylvain Crovisier, University of Paris

Newhouse has shown that smooth surface diffeomorphisms have ergodic measures maximizing the entropy. With Jérôme Buzzi and Omri Sarig we prove that their number is finite. This is a consequence of a generalization of the coding and of the spectral decomposition into basic sets known for hyperbolic diffeomorphisms.