

# About the $C^1$ -Density of ergodic symplectomorphisms

Sylvain Crovisier <sup>1</sup>,

<sup>1</sup> Université Paris - Sud

In the space of volume-preserving diffeomorphisms, it is known that the  $C^1$ -generic systems with positive entropy are ergodic and non-uniformly hyperbolic.

In that talk we will discuss how this result can be extended to symplectic diffeomorphisms: the non-uniform hyperbolicity may fail, however the ergodicity still holds. This can be obtained by an approach which is different from the volume-preserving case and which uses a local version of the accessibility property. This is a joint work with A. Avila and A. Wilkinson.