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Lyapunov exponents of area preserving endomorphisms

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We consider a family of area preserving non-invertible maps on the two-torus, which is the composition of the well-known Chirikov standard family (s,r) with a linear expansion E . If E is an homothety then our family can be seen as a “randomized” version of the standard family. We show on one hand that the Lyapunov exponents are different for all small values of r . On the other hand, for large enough expansion and values of the shear parameter r , we also obtain lower bounds for the difference between the two Lyapunov exponents.

We will discuss some possible generalization.

This is joint work with Martin Andersson, Pablo Carrasco and Jiagang Yang.

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