

Global smooth rigidity for toral automorphisms

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Suppose f is a diffeomorphism on torus whose linearization A is weakly irreducible. Let H be a conjugacy between f and A . We prove the following:

1. if A is hyperbolic and H is weakly differentiable
2. if A is partially hyperbolic and H is C^1 -holder. Then H is C^∞ . Our result shows that the conjugacy in all local and global rigidity results for irreducible A is C^∞ .

This is a joint work with B. Kalinin and V Sadovskaya.

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