Actions of Large Groups, Geometric Structures, and the Zimmer Program

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## 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^\infty. Our result shows that the conjugacy in all local and global rigidity results for irreducible A is  $C^{\infty}$ . This is a joint work with B. Kalinin and V Sadovskaya.

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