

Geometry, Topology and Dynamics Seminar

Pathology foliations and centralizer of diffeomorphisms

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Abstract: In 1990s, Shub and Wilkinson constructed a famous example of diffeomorphism f with non-absolutely continuous invariant foliation W , i.e. there is a full Lebesgue volume set S which intersects each leaf of W on a zero leaf-measure set (or even a finite set).

In this talk we will show that Shub-Wilkinson example has virtually trivial centralizer, i.e. for any g commutes with f , there exist non zero pair (k, l) such that $f^k g^l = \text{id}$. This is a baby example of the joint work with D. Damjanovic and A. Wilkinson (in preparation).

Monday, October 8 at 3:00 PM in 636 SEO