

## 1 Publications

- D. Damjanović, A. Wilkinson, D. Xu, Pathology and asymmetry: Centralizer rigidity for partially hyperbolic diffeomorphisms, *Duke Math J.* (2021), to appear.
- A. Brown, D. Damjanović, Z. Zhang,  $C^1$  actions on manifolds by lattices in Lie groups, *Compositio Mathematica*, (2021), to appear.
- D. Damjanović, J. Tanis, Transversal local rigidity of discrete abelian actions on Heisenberg nilmanifolds, *Ergodic Theory and Dynamical Systems*, (2021) 1-41. doi:10.1017/etds.2021.79.
- D. Damjanović, J. Tanis, Z. Wang, On globally hypoelliptic abelian actions and their existence on homogeneous spaces, *DCDS* (2020), 40(12): 6747-6766.
- D. Damjanović, D. Xu, On classification of higher rank Anosov actions on compact manifold, *Israel Journal of Mathematics* (2018) 238(2).
- D. Damjanović, D. Xu, Diffeomorphism group valued cocycles over higher rank abelian Anosov actions. *Ergodic Theory and Dynamical systems* (2018), 1-25.
- D. Damjanović, B. Fayad, On local rigidity of partially hyperbolic affine  $\mathbb{Z}^k$  actions. *Journal für die reine und angewandte Mathematik* (Crelles Journal). 1435-5345 (2016).
- D. Damjanović, Abelian actions with globally hypoelliptic leafwise Laplacian and rigidity, *Journal d'Analyse Mathématique* Volume 129, Issue 1, 139–163 (2016).
- D. Damjanović, J. Tanis, Cocycle rigidity and splitting for some discrete parabolic actions, *Discrete and Continuous Dynamical Systems - Series A*, Vol 35, no. 7 (2015).
- D. Damjanović, Perturbations of smooth actions with non-trivial cohomology. *Communications on Pure and Applied Mathematics*, Vol. LXVII, 1391–1417 (2014).
- D. Damjanović, Hamilton's theorem for smooth Lie group actions. *Ergodic Theory and Dynamical Systems: Proceedings of the Ergodic Theory Workshops at University of North Carolina at Chapel Hill, 2011-2012*, de Gruyter publications.
- D. Damjanović, A. Katok, Local Rigidity of Parabolic Homogeneous Actions: I. A Model Case, *Journal of Modern Dynamics*, Vol. 5, no. 2, 203-235 (2011).
- D. Damjanović, A. Katok, Local Rigidity of Partially Hyperbolic Actions. II. The geometric method and restrictions of Weyl chamber flows on  $SL(n, \mathbb{R})/\Gamma$ , *International Mathematics Research Notices*, Dec 3 (2010).
- D. Damjanović, A. Katok, Local Rigidity of Partially Hyperbolic Actions of  $\mathbb{Z}^k$  and  $\mathbb{R}^k$ ,  $k \geq 2$ . I. KAM method and actions on the Torus, *Annals of Mathematics*, Vol. 172, No. 3, 1805-1858 (2010).
- D. Damjanović, Central extensions of simple Lie groups and rigidity of some abelian partially hyperbolic algebraic actions, *J. Modern Dyn.* 1, 665–688 (2007).
- D. Damjanović, A. Katok, Periodic cycle functionals and cocycle rigidity for certain partially hyperbolic  $\mathbb{Z}^k$  actions, November (2005) *Discrete and Continuous Dynamical Systems* 13(4).

## 2 Submitted

- Q. Chen, D. Damjanović, B. Petkovic, On simultaneous linearization of certain commuting nearly integrable diffeomorphisms of the cylinder.

## 3 In preparation/preprints

- D. Damjanović, D. Xu, On conservative partially hyperbolic abelian actions with compact center foliation, (2017) arXiv:1706.03626.
- D. Damjanović, A. Wilkinson, D. Xu, On partially hyperbolic actions with compact center foliation II.
- D. Damjanović, A. Wilkinson, D. Xu, Centralizer classification for perturbations of certain partially hyperbolic maps on 2-step nilmanifold.
- D. Damjanović, B. Fayad, M. Saprykina, Local rigidity for classes of parabolic abelian actions on the torus.

## 4 Permanent preprints

- D. Damjanović, B. Fayad, R. Krikorian, Reducibility of  $SL(n, \mathbb{R})$ -valued cocycles over simultaneously Diophantine rotations. (2005), permanent preprint.