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Rigidity of some higher rank partially hyperbolic actions

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Smooth rigidity of higher rank abelian and lattice actions with some hyperbolicity has been studied extensively. When the manifold is a nilmanifold, results by Rodriguez Hertz, Wang, and Brown, Rodriguez Hertz, Wang show that: If the action contains an Anosov diffeomorphism then the action is globally rigid. I will discuss rigidity of higher rank partially hyperbolic actions on nilmanifolds. In particular, I will discuss global rigidity of abelian and higher rank lattice actions that contain one fibered partially hyperbolic element.

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