

Title: Hyperbolic Dynamics on Heisenberg Nilmanifolds

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Abstract: In this talk, I will construct a family of partially hyperbolic Axiom-A diffeomorphisms on the Heisenberg nilmanifolds, which are all derived from and leaf conjugate to the partially hyperbolic automorphism. Moreover, we will analysis the holonomy map of the stable and unstable foliations, which are the natural transitive but non-minimal quasi-periodically forced circle diffeomorphisms.