



Seminário de Sistemas Dinâmicos da UFF

DYNAMICS OF PARTIALLY HYPERBOLIC AUTOMORPHISMS ON 3-NILMANIFOLDS

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Resumo

In this talk, I will show that all the partially hyperbolic automorphisms on the Heisenberg nilmanifold can be C^1 -approximated by structurally stable C^∞ diffeomorphisms which exhibit one attractor and one repeller. This implies that all these automorphisms are not robustly transitive. Our constructions of attractors and repellers need the analysis of dynamical invariant contact structures and fiber isotopic invariant Birkhoff sections for these automorphisms.