

# AXIOM A FLOWS AND ANOSOV REPRESENTATIONS

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## ABSTRACT

In a joint work with B. Delarue and A. Sanders, we construct Axiom A flows on locally homogeneous manifolds associated to Anosov representations into a real semi-simple Lie group  $G$ , generalising the geodesic flow of a hyperbolic manifold in the case of  $G = \mathrm{SO}(n, 1)$ . We will see examples for which these flows can be interpreted as geodesic flows on pseudo-Riemannian symmetric spaces, such as  $G = \mathrm{SO}(2, 2)$  (studied in joint work with B. Delarue and C. Guillarmou), and others for which there is no such interpretation.