

Geometry, Topology and Dynamics Seminar

Hausdorff dimension of Kuperberg minimal sets

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Abstract: In 1994, Kuperberg constructed a smooth flow on a three-manifold with no periodic orbits. It was later shown that a generic Kuperberg flow preserves a codimension one laminar minimal set. We develop new techniques to study the symbolic dynamics and dimension theory of the minimal set, by relating it to the limit set of a graph directed pseudo-Markov system over a countable alphabet.

Monday, April 23 at 3:00 PM in SEO 636