Universität Hamburg, Department Mathematik

AG Dynamische Systeme

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MODELLING MINIMAL FOLIATED SPACES WITH POSITIVE ENTROPY AND GEOMETRIC THEORY OF PDES

The theory of foliations began in the 1940s with the work of C. Ehresmann and G. Reeb who created a geometric theory for better understandung the solutions of PDEs. In the talk we construct minimal actions of groups of homeomorphisms of some classical fractals (the Sierpiński carpet and its generalizations, and the Menger sponge) with positive entropy. Suspending these group actions we get minimal foliated spaces which have positive geometric entropy and are modelled on these fractals.

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