

Structure of Feigenbaum Henon maps

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Feigenbaum Henon maps are infinitely renormalizable quadratic automorphisms of the real or complex 2D space. Over the past 20 years a rich theory of strongly dissipative maps of this class has been developed. Some of their features are similar to the 1D counterparts but some are strikingly different. We will give an overview of this theory, including recent results (joint with Artur Avila) on the existence of wild attractors. Towards the end we will mention the current work in progress (joint with Sylvain Crovisier, Enrique Pujals and Jonguk Yang) on the axiomatic non-perturbative theory of "unimodal Henon maps".