Henon Renormalization

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Abstract: There are microscopic geometrical properties of one-dimensional systems which are also observed in higher dimensional dissipative systems. However, this universality phenomenon is not a straightforward generalization of one-dimensional renormalization theory. Some of the differences will be discussed for infinitely renormalizable Henon-like maps. In particular, we will adress for these two-dimensional maps
1) the geometry of the Cantor attractor and rigidity,
2) global topological dynamical properties,
3) aspects of the bifurcation pattern.