

Newhouse Laminations

Newhouse laminations occur in unfoldings of rank-one homoclinic tangencies. Namely, in these unfoldings, there exist codimension 2 laminations of maps with infinitely many sinks which move simultaneously along the leaves. As consequence, in the space of real polynomial maps, there are examples of:

- Hénon maps, in any dimension, with infinitely many sinks,
- quadratic Hénon-like maps with infinitely many sinks and a period doubling attractor,
- quadratic Hénon-like maps with infinitely many sinks and a strange attractor,
- non trivial analytic families of polynomial maps with infinitely many sinks.