

Eugen Mihailescu: Noninvertible dynamics on basic sets

Abstract: We will review several methods and recent results about the dynamics of non-invertible maps on basic sets. Among these are the fibered systems (in particular holomorphic skew products), where we have some type of hyperbolicity. We will study also some dynamically significant invariant measures in the context of conformal attractors, repellers and non-uniformly hyperbolic measures; this can be used then to estimate pointwise dimensions on invariant manifolds.