

Part II

Dimension Theory

This part is dedicated to the dimension theory of hyperbolic flows, both for invariant measures and invariant sets. In Chap. 5 we study the dimension of a locally maximal hyperbolic set for a conformal flow in terms of the topological pressure. The arguments use Markov systems. Chapter 6 is dedicated to the study of the pointwise dimension of an arbitrary invariant measure sitting on a locally maximal hyperbolic set for a conformal flow. The pointwise dimension is expressed in terms of the local entropy and the Lyapunov exponents. We also describe the Hausdorff dimension of a nonergodic measure in terms of an ergodic decomposition and we establish the existence of invariant measures of maximal dimension.