

Metric Diophantine approximation and Hausdorff dimension on manifolds

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1. Introduction

In this paper we discuss homogeneous Diophantine approximation of points on smooth manifolds M in \mathbb{R}^k . We begin with a brief survey of the notation and results. For any $\mathbf{x}, \mathbf{y} \in \mathbb{R}^k$, let

$$\mathbf{x} \cdot \mathbf{y} = \sum_{i=1}^k x_i y_i, \quad \|\mathbf{x}\|_2 = (\mathbf{x} \cdot \mathbf{x})^{1/2}, \quad \|\mathbf{x}\|_\infty = \max \{|x_i| : i = 1, \dots, k\}.$$

For convenience, when there is no risk of confusion, we will usually write $\|\mathbf{x}\|$ rather than $\|\mathbf{x}\|_\infty$. For any set $X \subseteq \mathbb{R}^k$, $\dim X$ will denote its Hausdorff dimension and $|X|$ its Lebesgue measure or, when $X \subset M$, its induced Lebesgue measure on M . For any $t \in \mathbb{R}$, let $\|t\| = \inf\{|t - p| : p \in \mathbb{Z}\}$. Throughout, \mathbf{q} will denote an integer vector in \mathbb{Z}^k . For each \mathbf{x} in \mathbb{R}^k we denote by $w(\mathbf{x})$ the supremum of all positive w such that the inequality

$$\|\mathbf{q} \cdot \mathbf{x}\| < |\mathbf{q}|^{-w}$$

has infinitely many solutions \mathbf{q} in \mathbb{Z}^k . It follows from Dirichlet's pigeonhole principle that $w(\mathbf{x}) \geq k$ for all \mathbf{x} in \mathbb{R}^k (see [7, 17]) and from Groshev's extension of Khintchine's Theorem (see [19], p. 33) that $w(\mathbf{x}) = k$ for almost all \mathbf{x} in \mathbb{R}^k (in the sense of Lebesgue measure). Points \mathbf{x} for which $w(\mathbf{x}) > k$, are called *well approximable*; clearly the set of well approximable points has measure zero. To refine the notion of well approximable points let

$$W(r) = \{\mathbf{x} \in \mathbb{R}^k : w(\mathbf{x}) \geq r\}, \quad W^*(r) = \{\mathbf{x} \in \mathbb{R}^k : w(\mathbf{x}) = r\}$$

for all $r \in \mathbb{R}$. By the above results, $W(r) = \mathbb{R}^k$ for $r \leq k$, $|W(r)| = 0$ for $r > k$, $W^*(r) = \emptyset$ for $r < k$, $|W^*(r)| = 0$ for $r > k$ and $W^*(k)$ has full measure. When $r > k$, the Hausdorff dimension of $W(r)$ is $k - 1 + (k + 1)/(r + 1)$; the case $k = 1$ was proved by Jarnik [12] and Besicovitch [5] and the case $k > 1$ is treated in [6] and [8] (the sets considered in these papers differ slightly from $W(r)$ and $W^*(r)$ but the dimensions are the same).

In this paper we consider the Diophantine approximation of points \mathbf{x} lying on a submanifold of \mathbb{R}^k . A manifold M in \mathbb{R}^k is said to be *extremal* when, in the induced measure on M , almost all points in M are not well approximable. Thus \mathbb{R}^k is extremal.

Metric Diophantine Approximation On Manifolds

RJ Alexander



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Dzmitry Badziahin, Alexander Gorodnik, Norbert Peyerimhoff, 2016-11-10 Written by leading experts this book explores several directions of current research at the interface between dynamics and analytic number theory Topics include Diophantine approximation exponential sums Ramsey theory ergodic theory and homogeneous dynamics The origins of this material lie in the Dynamics and Analytic Number Theory Easter School held at Durham University in 2014 Key concepts cutting edge results and modern techniques that play an essential role in contemporary research are presented in a manner accessible to young researchers including PhD students This book will also be useful for established mathematicians The areas discussed include ubiquitous systems and Cantor type sets in Diophantine approximation flows on nilmanifolds and their connections with exponential sums multiple recurrence and Ramsey theory counting and equidistribution problems in homogeneous dynamics and applications of thin groups in number theory Both dynamical and classical approaches towards number theoretical problems are also provided Metric Theory of Diophantine Approximations Vladimir Gennadievich

Sprindzhuk, 1979 This monograph is a systematic presentation of a branch of number theory known as the metric theory of Diophantine approximation The main emphasis is on extremal problems i e problems involving approximations that are best in a certain sense **Pure and Applied Mathematics Quarterly** ,2008 *Mathematical Reviews* ,2006 *Reviews in*

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