

报告题目: On Hausdorff dimension of the set of nonergodic directions 报告人:黄炎 (河南大学) 时间: 2020-09-06 星期日 10:00-11:00 地点:腾讯会议 ID: 656 940 706 报告摘要:

In this talk, we show a recent progress about Hausdorff dimension of the set of nonergodic directions. Let X be the resulting surface by gluing two copies of the flat torus along a segment with holonomy vector (lambda,mu) and let q k be the sequence of best simultaneous approximation denominators to (lambda,mu), related to any norm of R^2. If q  $\{k+1\}=O(q k^N)$  for some N>0, then the set of nonergodic dimension 1/2: Hausdorff directions in X has if  $\sum \left( \log \left( \frac{k+1}{2} \right) \right)$  k=infty, then the dimension is 0. This was a joint work with Yitwah Cheung.

> 非线性数学模型与方法教育部重点实验室 中法应用数学国际联合实验室 上海市现代应用数学重点实验室 复旦大学数学研究所