

环面上矩阵变换的收缩靶问题

Speaker: Lingmin Liao
Wuhan University

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Abstract: We study matrices with real coefficients as transformations on the d -dimensional torus. The shrinking target problem concerns the sets of the points whose orbits under a fixed matrix transformation fall into a family of shrinking subsets infinitely often. A zero-one law for the Lebesgue measure of such sets is proved. A Hausdorff dimension formula is also given for the diagonal matrix transformations. This is a joint work with Bing Li, Sanju Velani and Evgeniy Zorin.