

Mobius disjointness for analytic skew products

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Abstract

Sarnaks Mobius disjointness conjecture states that the Mobius function is disjoint to every topological dynamical system of zero entropy. In this talk, we will explain why this is true for every analytic skew product map on the two torus over a rotation of the circle of arbitrary rotation number. If time allows, we will also discuss some progress in the case of smooth skew products.