

***DENSITY OF SHAPES OF PERIODIC TORI II: THE
GENERAL CASE***

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Time: Wednesday, Apr. 22th, 15:30

Venue: Room 102, SCMS

Abstract:

Consider the action of unimodular diagonal matrices on $SL(n, \mathbb{R})/SL(n, \mathbb{Z})$. A compact orbit for this action is called a periodic torus. For each periodic torus of this action, we define a shape point to be the point in $SL(n-1, \mathbb{R})/SL(n-1, \mathbb{Z})$ that defines the lattice of periods of the periodic tori. We consider all the possible shapes that can be obtained from periodic tori and show that this set is dense in $SL(n-1, \mathbb{R})/SL(n-1, \mathbb{Z})$.