
ANDREW TOMS, Purdue University

The homotopy type of Cuntz classes in real rank zero C^ -algebras*

Roughly speaking, the Cuntz semigroup generalizes the Murray-von Neumann semigroup for projections to the broader setting of positive elements. Introduced by Cuntz in 1978, it has enjoyed a resurgence since the mid 2000s and has become an important tool in the structure and classification theory of nuclear separable C^* -algebras. In this talk we examine the homotopy type of Cuntz classes in real rank zero C^* -algebras, and identify their homotopy groups completely for a class that includes AF and irrational rotation algebras.