

DYNAMICAL SYSTEMS AND SELF-AFFINE SETS

TOM KEMPTON

Self-Affine sets occur as repellers of dynamical systems and are a natural class of fractal object. Until recently they were understood only in very special cases. In the last three years there has been a huge amount of progress in the area, stemming from an understanding of the role that projective linear transformations play in the geometry of these sets. In this talk I will explain how dynamics allows us to understand the dimension theory of self-affine sets, including recent results together with Falconer and with Fraser.