THE DIMENSION DROP PROBLEM FOR SELF-AFFINE SETS AND DYNAMICAL SYSTEMS

Speaker: Bing Li

South China University of Technology

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Abstract：The IFS (iterated function system) is a usual way to generate fractals, for example, self-affine set. The dimension drop problem concerns if the dimensions of self-affine sets are strictly less than the original one when we reduce one function from the affine IFS (assume some separation condition to avoid trivial examples). We will talk some progress on this problem and also corresponding problem for dynamical system.