SPEAKER: Hong Wang, UCLA

TITLE: Projection theorems and applications

ABSTRACT: Given a fractal set $E$ on the plane and a set $F$ of directions, can we find one direction $L$ in $F$ such that the orthogonal projection of $E$ along $L$ is large? We will survey some classical and modern projection theorems and discuss their applications. This talk is based on joint work with Pablo Shmerkin.