

SCMS Seminar



MULTIPLICATIVE DIOPHANTINE APPROXIMATION ON STRAIGHT LINES AND HOMOGENEOUS DYNAMICS

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Lecture

Time: 16:00-17:00, Tuesday, Nov 20th

Venue: Room 110, Shanghai Center for Mathematical Sciences

Abstract: In this talk, we will discuss multiplicative Diophantine approximation on submanifolds. Using techniques from homogeneous dynamics, we are able to prove the following statement: Given a planar straight line with a natural Diophantine condition, a strengthening of Littlewood conjecture holds for almost every point on the line. This talk is based on an ongoing joint work with Allen, Beresnevich, Chow and Velani.