JARNIK-BESICOVITCH TYPE THEOREMS FOR SEMISIMPLE ALGEBRAIC GROUPS

Speaker: Cheng Zheng

Shanghai Jiao Tong University

Time：Thursday, March 21, 2024, 14:30-15:30

Venue：Room 102, Shanghai Center for Mathematical Sciences

Abstract ： The Jarnik-Besicovitch theorem in the metric theory of Diophantine approximation states that for any $\gamma \geq 1$ the set of γ approximable numbers has Hausdorff dimension $2/(1 + \gamma)$. In this talk, we discuss a recent result about Jarnik-Besicovitch type theorems for semisimple algebraic groups from the representation-theoretic point of view.