

Measure doubling for small sets in $SO(3, R)$

Yifan Jing
Ohio State University

Time: September 25th, 14:00 - 15:00

Zoom meeting ID: 897 7119 3045 Password: 121323

Link: [https://zoom.com.cn/j/897 7119 3045](https://zoom.com.cn/j/897%207119%203045)

Venue: Room 106, Shanghai Center for Mathematical Sciences

Abstract:

Let $SO(3, R)$ be the 3D-rotation group equipped with the real-manifold topology and the normalized Haar measure μ . Confirming a conjecture by Breuillard and Green, we show that if A is an open subset of $SO(3, R)$ with sufficiently small measure, then $\mu(A^2) > 3.99\mu(A)$. This is joint work with Chieu-Minh Tran (NUS) and Ruixiang Zhang (Berkeley).