

Department of Mathematics, BGU

BGU Probability and Ergodic Theory (PET) seminar

On Thursday, November 7, 2024

At 11:10 – 12:00

In 101-

Ido Grayevsky (BGU)

will talk about

Sublinear Distortion and QI Classification of Solvable Lie Groups.

Abstract: Cornuier conjectured that two completely solvable Lie groups are quasiisometric if and only if they are isomorphic. This is a very difficult and very open problem. In this talk I will present some of the structure theory of solvable Lie groups and focus on the importance of sublinear distortions to this theory. I will review some of the important work of Cornuier and Tessera on Dehn functions of these groups. Finally, I will present recent results that contribute to their QI classification, which are interesting (also) because they are based on a (sublinear) weak form of QI.

Based on joint work with Gabriel Pallier.