Department of Mathematics, BGU

BGU Probability and Ergodic Theory (PET) seminar

On *Nov ,7 2024*

At *11:10 – 12:00*

In *101-*

Ido Grayevsky (HUJI)

will talk about

Sublinear Distortion and QI Classfiication of Solvable Lie Groups.

Abstract: Cornulier conjectured that two completely solvable Lie groups are quasiisometric fi and only fi they are isomorphic. This is a very dffiicult 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 Cornulier and Tessera on Dehn functions of these groups. Finally, I will present recent results that contribute to their QI classfiication, which are interesting (also) because they are based on a (sublinear) weak form of QI.

Based on joint work with Gabriel Pallier.