

Department of Mathematics, BGU

Colloquium

On *Tuesday, December ,24 2024*

At *14:30 – 15:30*

In *Math 101-*

Misha Bialy (Tel Aviv University)

will talk about

Integrable billiards and rigidity

Abstract: First I shall discuss various models of mathematical billiards and the notion of integrability. Next I shall focus on the so called Birkhoff-Poritsky conjecture, that the only Integrable billiards are circles and ellipses. I shall present several positive results (joint with A. E. Mironov and D. Tsodikovich) for Birkhoff and other type of billiards. If time permits, applications to spectral rigidity will be discussed.