

Department of Mathematics, BGU

AGNT

On Tuesday, October ,25 2022

At 12:00 – 13:00

In 101-

Nadav Gropper (BGU)

will talk about

Surfaces and p-adic fields

Abstract: The philosophy of arithmetic topology, first established by Mazur, gives an analogy relating arithmetic to lower dimensional topology. Under this philosophy, one gets a dictionary, relating between Number fields and 3-manifolds, primes and knots, and p-adic fields and surfaces. In the talk I will try and explain why these surprising analogies were drawn. I will also outline some recent work of the speaker, which further establishes this connection for the local case, using tools such as graphs of groups and Bass–Serre theory.

Please Note the Unusual Time!