Department of Mathematics, BGU

Algebraic Geometry and Number Theory

On Wednesday, June ,14 2017

At 15:10 – 16:30

In Math 101-

Tom Meyerovitch (BGU)

will talk about

Cocycles and cohomology for subshfits and tiling spaces

Abstract:



Ben Gurion University - Mathematics Algebraic Geometry and Number Theory Seminar

Speaker	Tom Meyerovitch (BGU)
Title	Cocycles and cohomolgy for subshifts and tiling spaces
Date	Wednesday, 14 June 2017
Time	15:10 – 16:30 (starts 15:10 sharp)
Location	Room -101 in Building 58

Group cohomology can be useful when studying combinatorial
properties of certain tilings of Euclidean space. To apply cohomology
one associates to a set of tiles a "tiling space " (or a subshift) and a
natural group action on this space. In this talk I will define and explain
the notions involved in the above statement, and illustrate the
statement for various natural examples such as tilings by dimers. In
particular, we will demonstrate the need to consider cocycles taking
values in non-abelian groups and also higher order cocycles.

(updated 22 May 2017)