# גאומטריה אלגברית ותורת המספרים

ביום רביעי, *14 ביוני, 2017*

**בשעה** *15:10 – 16:30*

**ב***Math -101*

ההרצאה

# tiling and subshfits for cohomology and Cocycles spaces

תינתן על-ידי

(BGU) Meyerovitch Tom

תקציר:

**Ben Gurion University – Mathematics**

**Algebraic Geometry and Number Theory Seminar**

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| *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 |

*Abstract*

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)