TEL AVIV UNIVERSITY אוניברסיטת תל-אביב

The next *What-Is Seminar* talk will be held on

Wednesday, 2/5/12, 11:30—13:00
in **Schreiber 210**

The speaker is

Nadav Yesha (TAU)

What is Uniform Distribution Modulo 1?

Upon request, the lecture will be given in English.
There will be some snacks and drinks.

You are all invited!

Abstract

For an irrational alpha, what can we say about the sequence of the fractional parts $\{n\alpha\}$? Is it dense in the interval $[0, 1)$? How is it distributed there? And what about the sequence $\{n^2\alpha\}$? The theory of uniform distribution modulo 1 addresses such questions. We will define what it means to be uniformly distributed mod 1, and explain Weyl's criterion, discrepancy, the Erdős-Turan inequality and some examples.

For more information visit: http://www.math.tau.ac.il/∼pelegm/whatis