TEL AVIV UNIVERSITY אוניברסיטת תל-אביב

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

Thursday, 15/12/11, 15:10—16:30
in **Schreiber 309**

The speaker is

Yaniv Ganor (TAU)

What is the Borsuk—Ulam Theorem?

Required knowledge: basic topology.
Upon request, the lecture will be given in English.
There will be some snacks and drinks.

You are all invited!

Abstract

The Borsuk-Ulam Theorem states that every continuous map $S^n \to \mathbb{R}^n$ maps some pair of antipodal points to the same point. It is a theorem similar in spirit to the Brouwer fixed point theorem, and in fact implies it.

In this lecture we will see a relatively elementary proof, and corollaries such as the Ham Sandwich theorem, as well as some applications to combinatorics.

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