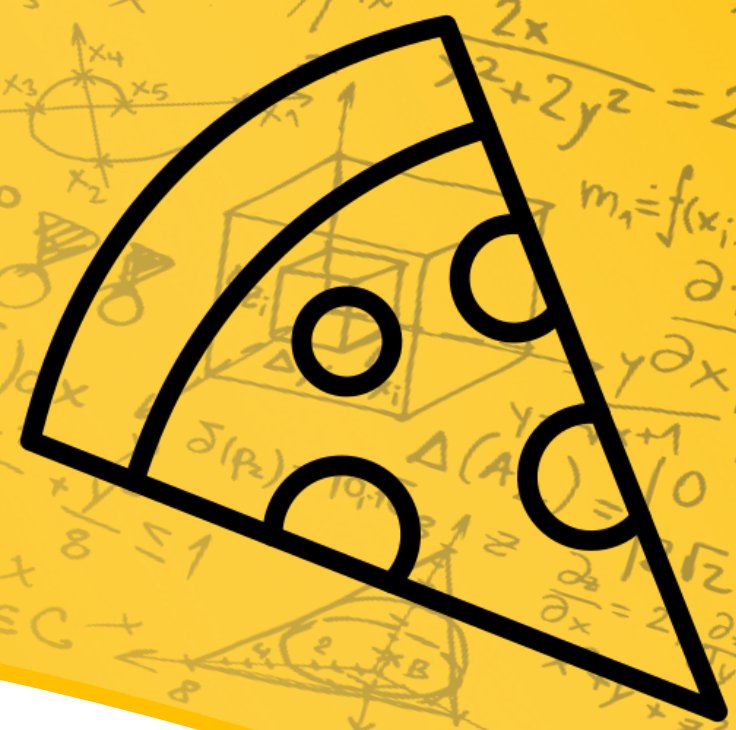
הטכניון
מכון טכנולוגי לישראל

הפקולטה למתמטיקה

The Faculty of Mathematics
Invites you to the

Pizza seminar



Time & Wednesday, August 14, 13:30
8th floor lounge, Amado bldg

Title **Arithmetic Dynamics**

Speaker **Angelot Behajaina (Technion)**

Abstract

Arithmetic dynamics is an exciting field that blends number theory with dynamical systems. It involves exploring the number-theoretic properties of self-maps, such as those defined by polynomials over the field of rational numbers. In this talk, I am going to focus on the concept of ``Arboreal Galois representations". This framework offers tools to investigate questions like the density of prime divisors in sequences defined by polynomials: $a_0 \in \mathbb{Z}$ **and** $a_{n+1} = f(a_n)$ **, where** $f \in \mathbb{Z}[x]$.