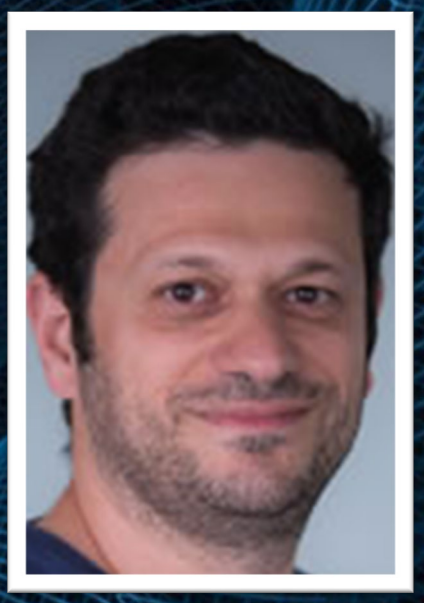
TECHNION
Israel Institute of Technology

Department of **Mathematics**

TECHNION MATH COLLOQUIUM



"Sum-product phenomenon for sets of positive density in the integer lattice."

Speaker: **Alexander Fish (University of Sydney)**

16.12.24, 15:30, Amado 232

Abstract:

We will present a refinement, developed in collaboration with Bjorklund, of Furstenberg's ergodic-theoretic approach tailored to addressing the problem of identifying 'twisted infinite patterns' in positive-density subsets of the integer lattice. These patterns correspond to an infinite structure within the 'sum-products' formed by such sets. The talk is based on joint work with Bjorklund, Bulinski, and Skinner.