

Department of Mathematics, BGU

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# BGU Probability and Ergodic Theory (PET) seminar

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**On** *Thursday, December 5, 2024*

**At** *11:10 – 12:00*

**In** *101-*

Aiden Young (BGU)

will talk about

## **Mixed ergodic optimization**

Abstract: We introduce an ergodic optimization problem inspired by information theory, which can be presented informally as follows: given topological dynamical systems  $(X, T)$ ,  $(Y, S)$ , and a continuous function  $f \in C(X \times Y)$ , what can be said about the extrema  $\sup_{y \in Y} \inf_{x \in X} \lim_{k \rightarrow \infty} \frac{1}{k} \sum_{j=0}^{k-1} f(T^j x, S^j y)$ ?