

המחלקה למתמטיקה, בן-גוריון

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## הסתברות ותורה ארגודית

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ביום שלישי, 25 באפריל, 2017

בשעה 10:50 – 12:00

ב-101 Math

ההרצאה

### Approximate groups and applications to growth

תינתן על-ידי

Tointon Matthew

תקציר:

Given a set  $A$  in a group  $A^n$ , write the set of products  $x_1 \dots x_n$  each with  $x_i$  belonging to  $A$ .

Remarkably, the understanding of the behaviour of approximate groups allows us to convert information about  $A^k$  for some fixed  $k$  into information about the growth of  $A$ . In particular, as  $n$  tends to infinity, the sequence  $A^n$  has a particular structure.

In this talk I will present various results describing the algebraic structure of approximate groups.