

המחלקה למתמטיקה, בן-גוריון

הסתברות ותורה ארגודית

ביום שלישי, 8 בנובמבר, 2016

בשעה 10:50 – 12:00

ב-Math 101

ההרצאה

Remarks on the set of values of ergodic sums of integer valued functions

תינתן על-ידי

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תקציר: For (X, \mathcal{B}, μ) a system dynamical preserving measure ergodic an For μ , B , \mathcal{A} $(X, \text{system dynamical preserving measure ergodic an For } \mu, B, \mathcal{A})$ consider we \mathbb{Z} , in values with f function measurable a and T $f(T^n x) = \sum_{k=0}^{n-1} f(T^k x)$ $S_n(x) := \sum_{k=0}^{n-1} f(T^k x)$ sums ergodic the of values of set the X $\in x$ $1 \leq n$ (from set this of properties several, $0 < \mu(f)$ with integrable is f If of consequences simple are sets) arithmetic or recurrence of view of point the (1989) results Bourgain's squares many infinitely contains $\{S_n(x) : 1 \leq n\}$, set the example, For a by shown as fail, may property this integrable, not is f If x . a.e. for integrable an of counter-example a also give We Boshernitzan. M. of construction regular non is $(1 \leq n) S_n(x)$, cocycle the which for f function centered fails. property the and