

המחלקה למתמטיקה, בן-גוריון

הסתברות ותורה ארגודית

ביום שלישי, 22 בדצמבר, 2015

בשעה 10:50 – 12:00

ב-101 Math

ההרצאה

OF CONVERGENCE OF RATES ON REMARKS CONTRACTIONS OF POWERS

תינתן על-ידי

(BGU) Cohen Guy

תקציר: We prove that if T is a contraction on a Hilbert space, then $\|T^n(I-T)\| \leq O(1/n^\beta)$ for $\beta = \frac{1}{2}$ is sufficient and necessary. Another condition is that T is normal. For $\beta = \frac{1}{2}$, the condition $\|T^n(I-T)\| \leq O(1/n^\beta)$ is sufficient and necessary. For $\beta > \frac{1}{2}$, the condition $\|T^n(I-T)\| \leq O(1/n^\beta)$ is sufficient and necessary. For $\beta < \frac{1}{2}$, the condition $\|T^n(I-T)\| \leq O(1/n^\beta)$ is not sufficient. For $\beta = \frac{1}{2}$, the condition $\|T^n(I-T)\| \leq O(1/n^\beta)$ is sufficient and necessary. For $\beta > \frac{1}{2}$, the condition $\|T^n(I-T)\| \leq O(1/n^\beta)$ is sufficient and necessary. For $\beta < \frac{1}{2}$, the condition $\|T^n(I-T)\| \leq O(1/n^\beta)$ is not sufficient. When $\beta = \frac{1}{2}$, the condition $\|T^n(I-T)\| \leq O(1/n^\beta)$ is sufficient and necessary. When $\beta > \frac{1}{2}$, the condition $\|T^n(I-T)\| \leq O(1/n^\beta)$ is sufficient and necessary. When $\beta < \frac{1}{2}$, the condition $\|T^n(I-T)\| \leq O(1/n^\beta)$ is not sufficient.

contraction positive a general in that shows example An L_2 . $\forall n \in \mathbb{N}$ every for
 $= \lim_{n \rightarrow \infty} \frac{1}{\sqrt{n}} \sum_{k=1}^n T_k / \log k \limsup$ with $0 \leq f_n$ an have may L_2 on T
a.e.