

HACETTEPE ÜNİVERSİTESİ MATEMATİK BÖLÜMÜ

GENEL SEMİNERİ

(HACETTEPE MATHEMATICS GENERAL SEMINAR)

Tarih (Date) : 26.11.2014, Çarşamba (Wednesday)

Saat (Time): 15:00

Yer (Place): Yaşar ATAMAN Seminer Salonu

Konuşmacı (Speaker): Yrd. Doç. Dr. Nazife Erkurşun
Özcan (Hacettepe Üniversitesi)

Başlık (Title) : Quasi-compactness and uniform convergence of Markov operator nets on KB-spaces

Özet (Abstract) :

Kryloff and Bogoliouboff in 1937 introduced an important class of quasi-compact operators for which the uniform mean ergodic theorem can be obtained. Since this result, many contributions have been made in probability and ergodic theory using the spectral properties of quasi-compact operators. Quasi-compactness for strongly convergent semigroups and its relation to uniform ergodicity and to the asymptotic behaviour of the solutions of abstract Cauchy problems is also studied.

In this talk we investigate quasi-compactness of operator nets on KB-spaces which is equivalent to uniform convergence. Moreover we study the uniform ergodicity condition of a single operator or operator semigroups.

References:

1. Erkurşun Özcan, Nazife, Quasi-compactness and uniform convergence of Markov operator nets on KB-spaces, accepted

2010 Mathematics Subject Classification: 47A35, 47B65, 46B42, 47D03, 47L05

NOT: Konuşma sonunda çay ve pasta ikramı olacaktır.

(P.S. Tea and cookies will be served after the talk.)