

HACETTEPE ÜNİVERSİTESİ MATEMATİK BÖLÜMÜ

GENEL SEMİNERİ

(HACETTEPE MATHEMATICS GENERAL SEMINAR)

Tarih (Date) : 04.03.2015, Çarşamba (Wednesday) Saat (Time): 15:00 Yer (Place): Yaşar ATAMAN Seminer Salonu

Konuşmacı (Speaker): Doç. Dr. Faruk POLAT (Çankırı Karatekin University)

Başlık (Title) : On Spaces Derivable from a Solid Sequence Space and a Non-negative Lower Triangular Matrix

Özet (Abstract) : The scalar field will be either the real or complex numbers. Suppose that λ is a solid sequence space over the scalar field and A is an infinite lower triangular matrix with non-negative entries and positive entries on the main diagonal such that each of its columns is in λ . For each positive integer k, the kth predecessor of λ with respect to A is the solid vector space of scalar sequences x such that A^k |x| is an element of λ . We denote this space by Λ_k and λ itself will be denoted by Λ_0 . Under reasonable assumptions, these spaces inherit some topological properties from λ . We are interested in a projective limit of the infinite product of the Λ_k consisting of sequences of sequences (x^(k)) satisfying A x^(k) =x^(k-1) for each k>0. We show that for interesting classes of situations including the cases when $\lambda = l_p$ for some p>1 and A is the Cesaro matrix, the space of our interest can be non-trivial.

NOT: Konuşma sonunda çay ve pasta ikramı olacaktır.

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