



HACETTEPE ÜNİVERSİTESİ MATEMATİK BÖLÜMÜ GENEL SEMİNERİ

(HACETTEPE UNIVERSITY MATHEMATICS GENERAL SEMINAR)

Tarih (Date): 04.01.2017, Çarşamba (Wednesday)

Saat (Time): 15:00

Yer (Place): Yaşar Ataman Seminer Salonu

Konuşmacı (Speaker): Doç. Dr. Mehmet Turan (Atılım Üniversitesi)

Başlık (Title): On the dynamics of a second order non-linear difference equation

Özet (Abstract):

In this talk, a certain second order fractional difference equation containing two arbitrary parameters is handled. The issue equation is investigated with aspects of some dynamics structures: the boundedness character and semi-cycle analysis of positive solutions are examined; existence of periodic solutions is studied; local and global stability analysis of the fixed point are performed. Numerical examples are provided to illustrate the theory.