



ÇANKAYA UNIVERSITY
FACULTY OF ARTS AND SCIENCES
DEPARTMENT OF MATHEMATICS

SEMINAR

On the dynamics of a second order non-linear difference equation

SPEAKER : Assoc.Prof.Dr. Mehmet Turan (Atılım University)

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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.

All interested are cordially invited.

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