ISTANBUL ANALYSIS SEMINARS

DISJOINT HYPERCYCLIC OPERATORS

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Abstract: Linear Dynamics is a young and rapidly evolving branch of functional analysis. It is mainly concerned with the behavior of iterations of linear transformations. A continuous linear transformation T on a topological vector space X is said to be hypercyclic provided there is some vector in X with a dense orbit. Having dense orbits is one of the main ingredients in the most widely known definitions of chaos.

This talk stems from the connections introduced by Bourdon and Shapiro between the dynamics of a composition operator on the Hardy space and the function properties of its inducing linear fractional map. The aim of this talk is to connect these results with the notion of disjointness introduced by Bernal-Gonzalez and independently by Bes and Peris.

Date: December 30, 2011

Time: 15:40

Place: Sabancı University, Karaköy Communication Center Bankalar Caddesi 2, Karaköy 34420, İstanbul