İSTANBUL ANALYSIS SEMINARS

HYPERCYCLICITY OF WEIGHTED BACKWARD SHIFTS ON SPACES OF REAL ANALYTIC FUNCTIONS

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Abstract: In this joint work with Paweł Domański, we give certain conditions on hypercyclicity of the weighted backward shift operators

$$B_w : A(\Omega) \to A(\Omega),$$

with weight sequences $w = (w_n)_{n\in\mathbb{N}}$, acting on the spaces of real analytic functions $A(\Omega)$ on open subsets Ω of $\mathbb{R}$ containing zero, that send the monomials x^n to $w_n x^{n-1}$ for all $n \in \mathbb{N}$ and the unit function to the zero function.

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