

EXPANSIVITY, SHADOWING AND STABILITY IN LINEAR DYNAMICS

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Abstract

Expansivity, hyperbolicity, shadowing and structural stability are fundamental notions in the qualitative theory of dynamical systems and differential equations. In our talk, we will give an overview of the recent advances and open problems related to these notions in the setting of linear dynamical systems. For instance, we will present the recent joint work of the speaker with Ali Messaoudi on the existence of structurally stable operators that are not hyperbolic.