Instituto de
Matemática
Interdisciplinar

COLLOQUIUM DE ANÁLISIS MATEMÁTICO

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ICMAT

A z^k-invariant subspace without the wandering subspace property

Abstract:

We study operators of multiplication by z^k in Dirichlet-type spaces D_α. We establish the existence of k and α for which some z^k-invariant subspaces of D_α do not satisfy the wandering subspace property (WSP). As a consequence of the proof, any Dirichlet-type space accepts an equivalent norm under which the wandering property fails for some space for the operator of multiplication by z^k for any $k \geq 6$. Together with other results this will show that WSP is effectively dependent on the choice of equivalent norm given to the ambient space.

**Fecha: Viernes 22 de febrero de 2019
a las 13:00 horas
Lugar: Aula 222 (por confirmar)
Facultad de CC Matemáticas, UCM**