



DEPARTAMENTO DE
ANÁLISIS MATEMÁTICO Y
MATEMÁTICA APLICADA



SEMINARIO DE ANÁLISIS MATEMÁTICO Y MATEMÁTICA APLICADA

Luciano Abadías Ullod
Universidad de Zaragoza

Weighted hyperbolic composition groups on the disc and subordinated integral operators

Abstract

We provide the spectral picture of groups of weighted composition operators, induced by the hyperbolic group of automorphisms of the unit disc, acting on holomorphic functions. Some questions about the spectrum of single weighted hyperbolic composition operators are discussed, and results related with them in the literature are completed or partly extended. Also, our results on the weighted hyperbolic group are applied to the spectral study of multiparameter weighted averaging operators, which generalize Siskakis' operator, and of generalized reduced Hilbert matrix operator. Joint work with J. E. Galé, P. J. Miana and J. Oliva-Maza.

**Organized by: Departamento de Análisis Matemático y Matemática
Aplicada and Instituto de Matemática Interdisciplinar (IMI)**

Date: Thursday, May 25, 2023, 13:00h
Place: Room 209 (Seminario Alberto Dou)
Facultad de CC. Matemáticas, UCM