



FACULTAD DE
CIENCIAS
UNIVERSIDAD AUTÓNOMA DE MADRID

UAM Universidad Autónoma
de Madrid

SEMINARIO DE ANÁLISIS COMPLEJO
(COMPLEX ANALYSIS SEMINAR)

Summation Theory in Dirichlet Spaces

Javad Mashreghi
(Université Laval, Quebec, Canada)

Viernes, 3 de marzo de 2023, a las 10:30
(Friday, March 3, 2023, at 10:30)

Aula 520, Módulo 17, Departamento de Matemáticas
Universidad Autónoma de Madrid

Resumen (Abstract):

Polynomials are dense in weighted Dirichlet spaces. However, Taylor polynomials are not appropriate candidates to do the approximation. We discuss some summation methods, including the classical Cesàro means, and show they provide appropriate candidates for the polynomial approximation. Moreover, in local Dirichlet spaces where Taylor polynomial approximation fails, one may consider the equivalent of Lebesgue constants, *i.e.*, the norm of S_n (partial sums) on the ambient space. We present explicit formulas for the norm of S_n on local Dirichlet spaces.