
CATHERINE BENETEAU, University of South Florida

Zeros of optimal polynomial approximants in Dirichlet-type spaces

In this talk, I will discuss certain polynomials that are optimal approximants of inverses of functions in growth restricted analytic function spaces of the unit disk. I will examine the structure of the zeros of these optimal approximants and in particular study an extremal problem whose solution is related to Jacobi matrices and real orthogonal polynomials on the real line.