

abstract

JOINT PU/IAS NUMBER THEORY SEMINAR

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

We review the de Branges theory of Hilbert spaces of entire functions. This theory gives a canonical form for a class of operators as a multiplication operator together with a generalized Fourier transform taking such an operator to a generalized differential operator. We discuss its relation to other theories of canonical forms for certain non-self adjoint operators, including \square model spaces \square and Lax-Phillips scattering theory. We present examples, including de Branges spaces associated to automorphic L-functions, and discuss how the Riemann hypothesis may be encoded in this framework.