Alexandru Aleman, (Lund, Sweden)

joint work with S. Richter and C. Sundberg

Some examples concerning boundary behavior and index in Hilbert spaces of analytic functions

We consider Hilbert spaces of analytic functions in the unit disc where multiplication by the independent variable acts as a bounded linear operator. The index of an invariant subspace M for this operator is defined as the dimension of the quotient space M/zM. We discuss some results and examples concerning the relation between the index of an invariant subspace and the boundary behavior of the functions it contains, as well as the connection between abstract properties of this operator and boundary behavior of the functions in such spaces.