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Operator theory on symmetrized bidisc

A pair of commuting operators (S, P) on a Hilbert space H is said to be a Γ -contraction if the symmetrized bidisc is a spectral set of the tuple (S, P) . In this talk we will discuss an analytic model of Γ -contractions along with a set of complete unitary invariants. Also we will obtain a Beurling-Lax-Halmos type representations of closed invariant subspaces of pure Γ -isometric operators.