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The Douglas property for multiplier algebras of operators

Scott McCullough, Tavan T. Trent

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For a collection of reproducing kernels k which includes those for the Hardy space of the polydisk and ball and for the Bergman space, k is a complete Pick kernel if and only if the multiplier algebra of the Hilbert space $H^2(k)$ associated to k has the Douglas property. Consequences for solving the operator equation $AX=Y$ are examined.

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