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Projections and operator symmetry in Hilbert space

Abstract

In this talk we address the characterisation of Hermitian projections and of the so-called structural projections on subspaces of the space $B(H, K)$ of bounded linear operators between the complex Hilbert spaces H and K . A particular attention will be given to the spaces of symmetric and anti-symmetric operators relative to a conjugation on H . We present some explicit formulas obtained and discuss work in progress.