

GENERALISED P-SYMMETRIC OPERATORS

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ABSTRACT

Let H denote a complex Hilbert space, $L(H)$ the algebra of all bounded linear operators on H and $C_1(H)$, the trace class operators. We study the pairs of operators $A, B \in L(H)$ with the property that $AT = TB$ and $T \in C_1(H)$ implies $B^*T = TA^*$. The main result is that this property is equivalent to the self-adjointness of the ultraweak closure of the range of a generalised derivation.