ON A COMMUTATIVE $WJ^*$–ALGEBRA OF $D_1^+$–CLASS AND ITS BICOMMUTANT

VLADIMIR STRAUSS

Abstract. We study different properties of a commutative $WJ^*$-algebra in a Krein space that has a maximal non-negative subspace represented as a direct sum of its one-dimensional isotropic subspace and a uniformly positive one. In particular, we give a criteria for the equality between of a $WJ^*$-algebra of this class and its bicommutant.


Keywords and phrases: Indefinite metric, operator algebras, model representation, functional calculus, bicommutant.

REFERENCES


[22] V. A. Strauss (= Strauss), On the structure of operators that doubly commute with operators of the class K(H) (Russian), Ukrain. Mat. Zh. 38, 6 (1986), 805–817.


