ANOTHER CHARACTERIZATION OF ORTHOGONALITY IN HILBERT $C^*$–MODULES

LJILJANA ARAMBAŠIĆ AND RAJNA RAJIĆ

Abstract. We discuss a certain relation related to the Roberts orthogonality in Hilbert $C^*$ -modules which turns out to be equivalent to the orthogonality with respect to the $C^*$ -valued inner product. We also describe Hilbert $C^*$ -modules in which the Birkhoff–James orthogonality coincides with the Roberts orthogonality.


Keywords and phrases: Hilbert $C^*$ -module, Roberts orthogonality, Birkhoff–James orthogonality, inner product orthogonality.

REFERENCES