2–HILBERT $C^*$–MODULES AND SOME GRÜSS’ TYPE INEQUALITIES IN $A$–2–INNER PRODUCT SPACES

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Abstract. In this paper we generalize the concept of complex valued 2-inner product to $A$-valued 2-inner product, where $A$ is a $C^*$-algebra. We define and study the notion of $A$-valued 2-inner product on right $A$-module $E$ ($E$ is a linear space) and by new definition, some Grüss type inequalities are given.


Keywords and phrases: 2-inner products, 2-norms, inner product $C^*$–modules, Grüss inequalities.

REFERENCES


