FURTHER IMPROVED YOUNG INEQUALITIES
FOR OPERATORS AND MATRICES

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Abstract. In this paper, we show some improvement of Young inequalities for operators and matrix versions for the Hilbert-Schmidt norm. On the basis of an operator equality, we prove intrinsic conclusion by means of a different method with others’ researches. Besides, we present some reverse Young inequalities for positive operators.


Keywords and phrases: Jensen operator, reverse arithmetic-geometric means, Jensen’s functional.

REFERENCES