

EXTENSION OF AN OPPENHEIM TYPE DETERMINANTAL INEQUALITY FOR THE BLOCK HADAMARD PRODUCT

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Abstract. Günther and Klotz [Linear Algebra Appl. 437 (2012) 948–956] conjectured an Oppenheim type determinantal inequality for the block Hadamard product of two block commuting positive semidefinite matrices, which is proved by Lin [Linear Algebra Appl. 452 (2014) 1–6]. In this note, we extend the inequality to more block commuting positive semidefinite matrices. And the extension of this type inequality for the Hadamard product is also derived.

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