

## FURTHER SUBADDITIVE MATRIX INEQUALITIES

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*Abstract.* Matrix inequalities that extend certain scalar ones have been in the center of numerous researchers' attention. In this article, we explore the celebrated subadditive inequality for matrices via concave functions and present a reversed version of this result. Our approach will be tackling concave functions properties and some delicate manipulations of matrices and inner products.

*Mathematics subject classification (2010):* 47A63, 47A30, 39B62.

*Keywords and phrases:* Subadditive matrix inequalities, concave function.

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