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NORM ESTIMATES FOR FUNCTIONS OF TWO NON-COMMUTING MATRICES*

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Abstract. A class of matrix valued analytic functions of two non-commuting matrices is considered. A sharp norm estimate is established. Applications to matrix and differential equations are also discussed.

Key words. Functions of non-commuting matrices, Norm estimate, Matrix equation, Differential equation.

AMS subject classifications. 15A54, 15A45, 15A60.

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