A 1-NORM BOUND FOR INVERSES OF TRIANGULAR MATRICES WITH MONOTONE ENTRIES

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Abstract. This paper provides some new bounds for 1–norms of positive triangular matrices with monotonic column entries. The main theorem refines a recent inequality of Vecchio and Mallik in the case of constant diagonal. The results are shown to be in a sense best possible under the given constraints. En route some partial order inequalities are obtained.

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