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A CLASS OF INVERSE M–MATRICES*

REINHARD NABBEN†

Abstract. Nonnegative matrices whose inverses are M–matrices are called inverse M–matrices. It is still an open problem to characterize all inverse M–matrices. In this note a new class of inverse M–matrices is established. This class of nonsymmetric matrices generalizes the class of strictly ultrametric matrices.

Key words. M-matrices, inverse M–matrices, nonnegative matrices, ultrametric matrices

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†Fakultät für Mathematik, Universität Bielefeld, Postfach 10 01 31, 33 501 Bielefeld, Germany (nabben@mathematik.uni-bielefeld.de)