The Electronic Journal of Linear Algebra.
A publication of the International Linear Algebra Society.
Volume 8, pp. 53-59, May 2001.
ISSN 1081-3810. http://math.technion.ac.il/iic/ela

ELA

BASIC COMPARISON THEOREMS FOR WEAK AND WEAKER MATRIX SPLITTINGS*

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Abstract. The main goal of this paper is to present comparison theorems proven under natural conditions such as $N_2 \geq N_1$ and $M_1^{-1} \geq M_2^{-1}$ for weak and weaker splittings of $A = M_1 - N_1 = M_2 - N_2$ in the cases when $A^{-1} \geq 0$ and $A^{-1} \leq 0$.

Key words. Systems of linear equation, convergence conditions, comparison theorems, weak splittings, weaker splittings.

AMS subject classifications. 65C20, 65F10, 65F15

*Received by the editors on 28 April 2000. Accepted for publication on 1 February 2001. Handling Editor: Miroslav Fiedler. This paper was presented at the Eleventh Haifa Matrix Theory Conference, Technion, Haifa, Israel, June 21-25, 1999.

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