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ON A LYAPUNOV TYPE EQUATION RELATED TO PARABOLIC SPECTRAL DICHOTOMY*

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Abstract. A Lyapunov type equation characterizing the spectral dichotomy of a matrix by a parabola is proposed and analyzed. The results can be seen as the analogue of the classical Lyapunov stability theorems.

Key words. Eigenvalue, Lyapunov equation, Spectral dichotomy.

AMS subject classifications. 65F15, 93D05.

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