

On the behavior of the numerical abscissa in the triangular matrices case

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ABSTRACT.

L. Trefethen gave a conjecture concerning a phenomenon linked to the initial transient and asymptotic behavior of $\|\exp(tA)\|$ as a function of t at time $t = 0$, ($t \rightarrow \infty$ is a familiar limit). Motivated by this interesting phenomenon, we propose an answer for it in this particular case and in a general one as well. Also some results concerning particular quantities which are important in the study of time-dependent dynamical systems are given.

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