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## Matrix measure and application to stability of matrices and interval dynamical systems

Ziad Zahreddine

Department of Basic Sciences, College of Arts and Sciences, University of Sharjah, P.O. 27272, Sharjah, United Arab Emirates

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### Abstract

Using some properties of the matrix measure, we obtain a general condition for the stability of a convex hull of matrices that will be applied to study the stability of interval dynamical systems. Some classical results from stability theory are reproduced and extended. We present a relationship between the matrix measure and the real parts of the eigenvalues that make it possible to obtain stability criteria.

 Abstract

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