Arithmetic, geometric and harmonic means for accretive-dissipative matrices
- Minghua Lin, PhD Candidate -

The notion of Loewner (partial) order for general complex matrices is introduced. A square complex matrix is accretive-dissipative if both of its real and imaginary part are positive definite. After giving the definition of arithmetic, geometric and harmonic means for accretive-dissipative matrices, we study their basic properties, in particular, A-G-H mean inequality is established for two accretive-dissipative matrices in the sense of this extended Loewner order.

PIZZA, SOFT DRINKS, AND SNACKS PROVIDED COURTESY OF THE DEPARTMENT

Interested in Giving a talk or guiding a discussion?

Dates Available: Feb. 20th, Mar. 5th

Other dates available upon request.

Questions, Comments, and Interest can be directed to John Lang, j8lang@uwaterloo.ca, MC5133