

Talk: Kippenhahn's Theorem for Joint Numerical Ranges

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Abstract: Kippenhahn's Theorem states that the numerical range of a matrix is the convex hull of an algebraic curve. We discuss a generalization of this result to the joint numerical range of a family of hermitian matrices. A central theme is duality in convex algebraic geometry.

This is based on joint work with Daniel Plaumann and Stephan Weis.