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Bounded Rational Functions on the Bidisk

Significant information is known about two-variable functions that are both rational and inner on the bidisk. Known results address both their general structure as well as their behavior and regularity properties near boundary singularities. This talk will discuss how to use a local theory of stable polynomials to study and partially extend these results about rational inner functions to the more general class of bounded rational functions on the bidisk. This is joint work with Greg Knese, James Pascoe, and Alan Sola.