1151-47-76   **Kelly Bickel*** (`kelly.bickel@bucknell.edu`), **James Pascoe** and **Alan Sola**. *Singular Rational Inner Functions on the Tridisk.*

Rational inner functions (RIFs) on the bidisk have well-understood behavior near their singularities; in particular, many things are known about their derivative integrability, zero and unimodular level set behavior, and non-tangential regularity. In this talk, I will discuss singular rational inner functions in dimensions three and higher, with a focus on degree (1,m,n) RIFs on the tridisk. While some two-variable results generalize, non-trivial RIF examples will show that much of the nice behavior seen in the two-variable case is lost in higher dimensions. (Received August 08, 2019)

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