

1116-46-2795

Ryan K. Tully-Doyle* (ryan.tullydoyle@hamptonu.edu). *Convexity and free analytic functions.*

Matrix convex functions in one variable are an object of classical study, for example in the work of C. Löwner and F. Kraus. We will discuss an analogous notion of convexity for functions in the free analytic setting and implications for the structure of a class of convex free analytic functions. (Received September 22, 2015)