

DREXEL ANALYSIS SEMINAR

October 14, 2022

2-3 PM, Korman 245

Speaker: James Pascoe (Drexel)

Title: Germination phenomena in several complex variables

Abstract: Several theorems in several complex variables, such as the edge-of-the-wedge theorem, wedge-of-the-edge theorem, Hartog's theorem and Forelli's theorem, concern propagating analytic behavior in various ways. Using estimate on the condition number of Lagrange interpolation, we will try to understand when a series in several variables is directionally convergent with some positive radius on a large enough set of directions actually has bona fide positive radius of convergence. In turn, we obtain a germination theorem which implies the aforementioned results.