

1035-Z1-202

Kari Fowler* (kfowler@ut.edu), 401 W. Kennedy Blvd., Tampa, FL 33606. *The MacLane Class and the Interaction Between Coefficient Conditions and Solution Conditions of Differential Equations in the Unit Disk*. Preliminary report.

The MacLane class consists of nonconstant analytic functions f with asymptotic values at each point of a set of points $A \subset C = \{z : |z| = 1\}$ with A dense on C . In her dissertation, the author investigated the influence of the interaction between the coefficients and solutions of the differential equation $f^{(k)} + A(z)f = 0$, where k is a positive integer. In this presentation we discuss this influence within the context of the MacLane class. (Received August 16, 2007)