1047-30-382 **Linda R. Sons*** (sons@math.niu.edu), Dept. Mathematical Sciences, Northern Illinois University, DeKalb, IL 60115. *A special class of functions in the unit disc as coefficients for differential equations.* Preliminary report.

Let f be an analytic function in the unit disc D . If T denotes the Nevanlinna characteristic function, let a(f) be the limit superior of T(r,f)/(-log (1-r)) as r approaches one. Let S be the class of analytic functions in D for which a(f) is finite, but a(g) is infinite where g' = f . We explore characteristics of the solutions of differential equations in D for which functions in S are coefficients. (Received February 02, 2009)