

ANALYTIC FUNCTIONS AND SOME OF THEIR GROWTH PROPERTIES IN UNIT DISC

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Abstract

In this paper we study some growth properties of Nevanlinna's Characteristic function relating to the composition of two analytic functions in the unit disc $U = \{z : |z| < 1\}$ on the basis of generalised Nevanlinna L^* -type (respectively generalised Nevanlinna L^* -lower type) and generalised Nevanlinna L^* -weak type as compared to the growth of their corresponding left and right factors.

Key Words and Phrases : *Growth, Analytic function, Composition, Slowly changing function in the unit disc, Generalised Nevanlinna L^* -type (respectively generalised Nevanlinna L^* -lower type) and generalised Nevanlinna L^* -weak type.*

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