

MEASURE OF GROWTH PROPERTIES OF FUNCTIONS ANALYTIC IN UNIT DISC

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Abstract

In this paper we introduce the idea of generalised Nevanlinna L^* -order, generalised Nevanlinna L^* -type and generalised Nevanlinna L^* -weak type in the unit disc $U = \{z : |z| < 1\}$. Moreover, we study some growth properties of Nevanlinna's characteristic function relating to the composition of two analytic functions in the unit disc U on the basis of their generalised Nevanlinna L^* -order, generalised Nevanlinna L^* -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, Unit disc, Generalised Nevanlinna L^* -order, Generalised Nevanlinna L^* -type and Generalised Nevanlinna L^* -weak type, Slowly changing function in the unit disc.*

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