

INVARIANT OPERATORS AND UNIVALENT FUNCTIONS¹

BY

REUVEN HARMELIN

ABSTRACT. Necessary and sufficient conditions for univalence of meromorphic functions in certain domains in the complex plane are established in terms of some differential operators of degrees ≥ 3 , possessing the same invariance property as the Schwarzian derivative. Those operators include the derivatives of the Schwarzian derivative and Aharonov's invariants. Conditions for the existence of quasiconformal extensions are also achieved.

1. Introduction. Let $\mathcal{A}(D)$ and $\mathcal{R}(D)$ denote the linear spaces of all the analytic and meromorphic functions, respectively, at a domain D in the complete complex plane $\hat{\mathbb{C}} = \mathbb{C} \cup \{\infty\}$, and let $\mathcal{R}_0(D)$ be the set of all univalent elements in $\mathcal{R}(D)$. For every positive integer n let

$$(1.1^*) \quad B_n^*(D) = \left\{ \phi \in \mathcal{A}(D) : \|\phi\|_{n,D}^* = \|\phi\|_n^* = \sup_{z \in D} d(z, \partial D)^n |\phi(z)| < \infty \right\}$$

where $d(z, \partial D)$ is the euclidean distance of z to the boundary ∂D of D . If D is a hyperbolic domain, with a hyperbolic density $\rho_D(z) = \rho(z)$, let

$$(1.1) \quad B_n(D) = \left\{ \phi \in \mathcal{A}(D) : \|\phi\|_{n,D} = \|\phi\|_n = \sup_{z \in D} \rho(z)^{-n} |\phi(z)| < \infty \right\}.$$

(Here we consider the hyperbolic density $\rho_D(z)$ with constant curvature -4 , so that $\rho_U(z) = (1 - |z|^2)^{-1}$ for the unit disc U .)

The Schwarzian differential operator

$$\mathcal{R}(D) \ni f \mapsto \{f, z\} = \left[\left(\frac{f''}{f'} \right)' - \frac{1}{2} \left(\frac{f''}{f'} \right)^2 \right] (z) \in \mathcal{R}(D)$$

is a typical invariant operator in the sense that

$$(1.2) \quad \{g \circ f, z\} = \{f, z\} \quad \text{for every Möbius transformation } g,$$

and it has the following two remarkable properties:

(i) If $f \in \mathcal{R}_0(D)$ and $\phi(z) = \{f, z\}$, then $\phi \in B_2^*(D)$ and

$$(1.3) \quad \|\phi\|_{2,D}^* \leq 6$$

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Univalent Functions Univalent Functions

Adolph W. Goodman



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Topics in Hardy Classes and Univalent Functions Marvin Rosenblum, James Rovnyak, 1994-09-01 These notes are based on lectures given at the University of Virginia over the past twenty years They may be viewed as a course in function theory for nonspecialists Chapters 1 6 give the function theoretic background to Hardy Classes and Operator Theory Oxford Mathematical Monographs Oxford University Press New York 1985 These chapters were written first and they were originally intended to be a part of that book Half plane function theory continues to be useful for applications and is a focal point in our account Chapters 5 and 6 The theory of Hardy and Nevanlinna classes is derived from proper ties of harmonic majorants of subharmonic functions Chapters 3 and 4 A selfcontained treatment of harmonic and subharmonic functions is included Chapters 1 and 2 Chapters 7 9 present concepts from the theory of univalent functions and Loewner families leading to proofs of the Bieberbach Robertson and Milin conjectures Their purpose is to make the work of de Branges accessible to students of operator theory These chapters are by the second author There is a high degree of independence in the chapters allowing the material to be used in a variety of ways For example Chapters 5 6 can be studied alone by readers familiar with function theory on the unit disk Chapters 7 9 have been used as the basis for a one semester topics course

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