

815.30013

**Koepf, Wolfram**

Von der Bieberbachschen Vermutung zum Satz von de Branges sowie der Beweisvariante von Weinstein. (From Bieberbach's conjecture to de Branges' theorem and Weinstein's variant of proof.). (German)

Chatterji, S. D. (ed.) et al., Jahrbuch Ueberblicke Mathematik 1994. Braunschweig: Vieweg. 175-193 (1994). [ISBN 3-528-06578-8]

In this survey article, the author discusses the Bieberbach conjecture beginning with its roots in the middle of the last century. On the way, of course, there are Loewner's differential equation, Robertson's conjecture, Schiffer's variational method, inequalities due to Lebedev and Milin, de Branges's proof, as well as many other contributions.

The author includes Weinstein's proof of the Milin conjecture [*L. Weinstein*, The Bieberbach conjecture, *Int. Math. Res. Not.* 1991, No. 5, 61-64 (1991; Zbl. 743.30021)], on the grounds that this publication is not easily accessible. The author sees the history of the Bieberbach conjecture as a "Paradebeispiel" of the creation of mathematical knowledge. The article is well written and a pleasure to read.

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*Keywords* : Milin conjecture; Loewner differential equations; Bieberbach conjecture; Robertson's conjecture

*Citations* : [Zbl.743.30019](#)

*Classification*:

- **30C50** Coefficient problems for univalent and multivalent functions
- **30-02** Research monographs (functions of one complex variable)
- **30C45** Special classes of univalent and multivalent functions