
Jilong Zhang

**Entire Functions Sharing
a Small Function with their Derivatives**

CMFT 9 No.2 (2009), 379–389. [ISSN 1617-9447]

Abstract. We investigate uniqueness problems for an entire function that shares a small function of finite order with one of its linear differential polynomials. In particular, we complete a result in [14], and give a generalization of a result in [11].

Keywords. Uniqueness of entire functions, shared values, small functions.

2000 MSC. 30D35.

Received. December 11, 2007, in revised form April 2, 2008 and April 18, 2008.

Published online. December 18, 2008.

11 P. Li and W. J. Wang, Entire functions that share a small function with its derivative, *J. Math. Anal. Appl.* **328** (2007), 743–751.

14 J. Wang and I. Laine, Uniqueness of entire functions and their derivatives, *Computat. Methods Funct. Theory* **8** (2008), 327–338.