23(1)

Algebraic Independence of Certain Generalized Mahler Type Numbers

朱尧辰

中科院应用数学所

摘要

关键词　　Mahler type numbers　Generalized Mahler type numbers　Algebraic independence　Multiplicative dependence

分类号　11J85

Algebraic Independence of Certain Generalized Mahler Type Numbers

Yao Chen ZHU

Institute of Applied Mathematics, Academy of Mathematics and System Sciences, \Chinese Academy of Sciences, Beijing 100080

Abstract In this paper the generalized Mahler type number $M_h(g;A,T)$ is defined, and in the case of multiplicatively dependent parameters $g_i, h_i (1 \leq i \leq s)$ the algebraic independence of the numbers $M_{h_i}(g_i;A,T) (1 \leq i \leq s)$ is proved, where A and T are certain infinite sequences of non-negative integers and of positive integers, respectively. Furthermore, the algebraic independence result on values of a certain function connected with the generalized Mahler type number and its derivatives at algebraic numbers is also given.

Key words　Mahler type numbers　Generalized Mahler type numbers　Algebraic independence　Multiplicative dependence

通讯作者　朱尧辰 zhuyc@amt.ac.cn

扩展功能

本文信息

- Supporting info
- PDF(0KB)
- [HTML全文](0KB)
- 参考文献

服务与反馈

- 把本文推荐给朋友
- 加入我的书架
- 加入引用管理器
- 复制索引
- Email Alert
- 文章反馈
- 浏览反馈信息

相关信息

- 本刊中 包含"Mahler type numbers"的 相关文章
- 本文作者相关文章
- · 朱尧辰