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Triangular Matrix Representations of Rings of Generalized Power Series

刘仲奎

兰州西北师范大学数学系

收稿日期 2003-3-21 修回日期 网络版发布日期 2006-7-15 接受日期 2003-10-10

摘要 Let R be a ring and S a cancellative and torsion-free monoid and \leq a strict order on S . If either (S, \leq) satisfies the condition that $s \leq s'$ for all $s, s' \in S$, or R is reduced, then the ring $[R^{\{S, \leq\}}]$ of the generalized power series with coefficients in R and exponents in S has the same triangulating dimension as R . Furthermore, if R is a PWP ring, then so is $[R^{\{S, \leq\}}]$.

关键词 [Generalized triangular matrix representation](#) [Twisted generalized power series ring](#) [PWP ring](#) [Triangulating dimension](#)

分类号 [16W60](#)

Triangular Matrix Representations of Rings of Generalized Power Series

Zhong Kui LIU

Department of Mathematics, Northwest Normal University, Lanzhou 730070, P. R. China

Abstract Let R be a ring and S a cancellative and torsion-free monoid and \leq a strict order on S . If either (S, \leq) satisfies the condition that $s \leq s'$ for all $s, s' \in S$, or R is reduced, then the ring $[R^{\{S, \leq\}}]$ of the generalized power series with coefficients in R and exponents in S has the same triangulating dimension as R . Furthermore, if R is a PWP ring, then so is $[R^{\{S, \leq\}}]$.

Key words [Generalized triangular matrix representation](#) [Twisted generalized power series ring](#) [PWP ring](#) [Triangulating dimension](#)

DOI: 10.1007/s10114-005-0555-z

通讯作者 刘仲奎 liuzk@nwnu.edu.cn