

Extra and Alternative Loop Rings

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Abstract- The right alternative law implies the left alternative law in loop rings of characteristic other than 2. We show that there exists a loop which fails to be an extra loop, even though its characteristic 2 loop rings are right alternative.

Index Terms- Alternative loop, extra loop, inverse property, alternative ring, alternative loop ring.

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I. INTRODUCTION

Throughout this paper (L, \cdot) always denotes a loop, with identity element e and $(R, +, \cdot)$ always denotes an nonassociative commutative ring, with identity element $1 \neq 0$. Then RL denotes the loop ring constructed from R and L . Elements of RL are represented by finite formal sums of the form $\sum_{i=1}^n \alpha_i x_i$ where the x_i are elements of L and the α_i are elements

of R . The sum and product operations on RL are defined in the obvious way. Then $1e$ is the identity element of RL . For more details, background information, and references to the earlier literature see the survey by Goodaire and Milnes [1]. We note that L is embedded in to RL via the map $x \mapsto 1x$; we usually write the element $1x$ simply as x . In this paper we would like to focus on right alternative law $((x \cdot y)y = x(y \cdot y))$ and the left alternative law $((y \cdot y)x = y(y \cdot x))$. The right alternative law in RL is precisely more efficient over the right alternative law in L .

In the case that L is finite; Theorem 2 was proved by Chein and Goodaire [7]. Their proof relied on structure theorems of Bruck and Albert which are false for infinite L . Goodaire and Robinson [2 and 3] showed that the assumption in the theorem that R satisfies $1 + 1 \neq 0$ cannot be dropped.

Actually, in the study of alternative laws in loop rings RL , only L is relevant, by the following result from [7]:

REMARK : RL is associative iff L is associative.

THEOREM 1: A loop L is an RA loop if and only if L is not associative and has the following properties:

- i) if three elements of L associative in some order, then they associate in all orders;
- ii) if $g, h, k \in L$ do not associate, then $g \cdot kh = gh \cdot k = h \cdot gk$.

PROOF : First, suppose that L is an RA loop and R is some ring of characteristic different from 2. Since $L \subseteq RL$ and RL is an alternative ring, statement (i) holds by the Generalized Theorem of Artin [5]. To obtain (ii) let g, h and k be three elements of L which do not associate and put $x = h + k$, $y = g$ in the right alternative identity, $yx \cdot x = yx^2$. We obtain $gh \cdot h + gh \cdot k + gk \cdot h + gk \cdot k = gh^2 + g \cdot hk + g \cdot kh + gk^2$ and since $gh \cdot h = gh^2$ and $gk \cdot k = gk^2$, $gh \cdot k + gk \cdot h = g \cdot hk + g \cdot kh$. Because $\text{char } R \neq 2$, $gh \cdot k$ is in the support of the left side and thus in the support of the right. So, if $gh \cdot k \neq g \cdot hk$, then $gh \cdot k = g \cdot kh$. Similarly, by considering the left alternative identity, we obtain $gh \cdot k = h \cdot gk$.

Conversely, suppose that L is a loop which satisfies statements (i) and (ii) of the theorem. Let R be a commutative and associative ring with unity. For $x = \sum \alpha_i g$ and $y = \sum \beta_j g$ in RL , $yx \cdot x = yx^2$ is a linear combination of terms of the form $gh \cdot k + g \cdot hk$. If $h = k$, then $gh \cdot h = g \cdot hh$ by associativity or (ii), so $yx \cdot x = yx^2$ reduces to a sum of terms of the form $(gh \cdot k + g \cdot hk) + (gk \cdot h + g \cdot kh)$ with $h \neq k$ and this is 0 by (i) and (ii). This shows that the right alternative identity holds in RL . The left alternative identity follows in a similar way.

COROLLARY 1: An RA loop is an extra loop.

PROOF: Let L be an RA loop. If x, y and z are three elements of L which associative, then, by Moufang's Theorem, these elements generate a group, so $(xy \cdot z)x = x(y \cdot zx)$ is clear. If x, y and z do not associative, then neither do $(xy \cdot z)x = x(y \cdot zx)$ is clear. If x, y and z do not associative, then neither do xy, z, x (again by Moufang's Theorem), so $(xy \cdot z)x = (x \cdot y)(x \cdot z)$ by Theorem 1 and, since x, y, xz do not associate, $(x \cdot y)(x \cdot z) = x(xz \cdot y)$. Repeated use of Theorem 1 gives $xz \cdot y = z \cdot xy = zy \cdot x = y \cdot zx$ and so, again $(xy \cdot z)x = x(y \cdot zx)$.

We begin by eliminating the rings from the theory of loop rings. Lemma 1 almost does that, since it expresses right alternativity in RL just in terms of elements of the form $1x$ (which, recall, we are writing as x). The material through Lemma 2 is from Chein and Goodaire [7].

LEMMA 1 : RL is right alternative iff L is right alternative and RL satisfies

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Table of Contents Alternative Loop Rings

1. Understanding the eBook Alternative Loop Rings
 - The Rise of Digital Reading Alternative Loop Rings
 - Advantages of eBooks Over Traditional Books
2. Identifying Alternative Loop Rings
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Alternative Loop Rings
 - User-Friendly Interface
4. Exploring eBook Recommendations from Alternative Loop Rings
 - Personalized Recommendations
 - Alternative Loop Rings User Reviews and Ratings
 - Alternative Loop Rings and Bestseller Lists
5. Accessing Alternative Loop Rings Free and Paid eBooks
 - Alternative Loop Rings Public Domain eBooks
 - Alternative Loop Rings eBook Subscription Services

- Alternative Loop Rings Budget-Friendly Options
- 6. Navigating Alternative Loop Rings eBook Formats
 - ePub, PDF, MOBI, and More
 - Alternative Loop Rings Compatibility with Devices
 - Alternative Loop Rings Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Alternative Loop Rings
 - Highlighting and Note-Taking Alternative Loop Rings
 - Interactive Elements Alternative Loop Rings
- 8. Staying Engaged with Alternative Loop Rings
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Alternative Loop Rings
- 9. Balancing eBooks and Physical Books Alternative Loop Rings
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Alternative Loop Rings
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Alternative Loop Rings
 - Setting Reading Goals Alternative Loop Rings
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Alternative Loop Rings
 - Fact-Checking eBook Content of Alternative Loop Rings
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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