

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.

2010 MATHEMATICS SUBJECT CLASSIFICATION: 17D05, 17D15.

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 associate, then neither do $(xy \cdot z)x = x(y \cdot zx)$ is clear. If x, y and z do not associate, 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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