

Review Article

Junying Guo and Xiaojiang Guo*

Semiprimeness of semigroup algebras

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Abstract: Abundant semigroups originate from p.p. rings and are generalizations of regular semigroups. The main aim of this paper is to study the primeness and the primitivity of abundant semigroup algebras. We introduce and study $\mathcal{D}^*$ -graphs and Fountain matrices of a semigroup. Based on $\mathcal{D}^*$ -graphs and Fountain matrices, we determine when a contracted semigroup algebra of a primitive abundant semigroup is prime (respectively, semiprime, semiprimitive, or primitive). It is well known that for any algebra $\mathcal{A}$ with unity, $\mathcal{A}$ is primitive (prime) if and only if so is $M_n(\mathcal{A})$. Our results can be viewed as some kind of generalizations of such a known result. In addition, it is proved that any contracted semigroup algebra of a locally ample semigroup whose set of idempotents is locally finite (respectively, locally pseudofinite and satisfying the regularity condition) is isomorphic to some contracted semigroup algebra of primitive abundant semigroups. Moreover, we obtain sufficient and necessary conditions for these classes of contracted semigroup algebras to be prime (respectively, semiprime, semiprimitive, or primitive). Finally, the structure of simple contracted semigroup algebras of idempotent-connected abundant semigroups is established. Our results enrich and extend the related results on regular semigroup algebras.

Keywords: semigroup algebra, semiprimitive algebra, semiprime algebra, locally ample semigroup, primitive abundant semigroup, complete quiver

MSC 2020: 20M25, 16S36

1 Introduction

The primitivity and the primeness are important properties in the theory of algebras. Let $\mathcal{A}$ be an algebra over a field K . It is well known that if $\mathcal{A}$ is semisimple as a right $\mathcal{A}$ -module, then it must be semiprimitive (semiprime), but not every semiprimitive (semiprime) algebra is semisimple. In particular, if $\mathcal{A}$ is a finite dimensional algebra over a field, then $\mathcal{A}$ is semisimple if and only if it is semiprimitive (semiprime).

It is well known that the class of semiprimitive semigroup algebras has contributed to solutions of various difficult problems. For example, in [1], a semiprimitive semigroup algebra was used to answer a question of Kegel [2]: whether every ring must be nil if it is the sum of two nil or locally nilpotent subrings? The semiprimitivity of inverse semigroup algebras over a field has been investigated (see [3]). It is shown that a finite inverse semigroup algebra over a field is semisimple if and only if the group algebra of each of its maximal subgroups is semisimple (see [4, 5]). In [6], Domanov proved that if F is a field and S is an inverse semigroup such that $F[G]$ is semiprimitive for each maximal subgroup G of S , then $F[S]$ is semiprimitive. This result is also true by replacing F by an arbitrary commutative ring R with unity and replacing $F_0[S]$ by $R_0[S]$ if we let S have a zero element [7, Theorem 4.2]. These results have been generalized to rings faithfully graded by inverse semigroups (see [8–10] and [11, Section 4.3]). Recently, Ji [12], and Ji and Luo [13]

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Semigroup Algebras

J. Donald Monk



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Noetherian Semigroup Algebras Eric Jespers, Jan Okninski, 2007-03-15 Here is a comprehensive treatment of the main results and methods of the theory of Noetherian semigroup algebras These results are applied and illustrated in the context of important classes of algebras that arise in a variety of areas and have recently been intensively studied The focus is on the interplay between combinatorics and algebraic structure Mathematical physicists will find this work interesting for its attention to applications of the Yang Baxter equation

Groups, Rings, Lie and Hopf Algebras, 2003-03-31 The volume is almost entirely composed of the research and expository papers by the participants of the International Workshop Groups Rings Lie and Hopf Algebras which was held at the Memorial University of Newfoundland St John's NF Canada All four areas from the title of the workshop are covered In addition some chapters touch upon the topics which belong to two or more areas at the same time Audience The readership targeted includes researchers graduate and senior undergraduate students in mathematics and its applications

Banach Algebras on Semigroups and on Their Compactifications Harold G. Dales, Anthony To-Ming Lau, Dona Strauss, 2010 Volume 205 number 966 end of volume

Operators, Semigroups, Algebras and Function Theory Yemon Choi, Matthew Daws, Gordon Blower, 2023-12-06 This volume collects contributions from participants in the IWOTA conference held virtually at Lancaster UK originally scheduled in 2020 but postponed to August 2021 It includes both survey articles and original research papers covering some of the main themes of the meeting

Group and Semigroup Rings G. Karpilovsky, 2011-09-22 A broad range of topics is covered here including commutative monoid rings the Jacobson radical of semigroup rings blocks of modular group algebras nilpotency index of the radical of group algebras the isomorphism problem for group rings inverse semigroup algebras and the Picard group of an abelian group ring The survey lectures provide an up to date account of the current state of the subject and form a comprehensive introduction for intending researchers

Semigroups of Matrices Jan Okniński, 1998 This book is concerned with the structure of linear semigroups that is subsemigroups of the multiplicative semigroup $M_n(K)$ of $n \times n$ matrices over a field K or more generally skew linear semigroups if K is allowed to be a division ring and its applications to certain problems on associative algebras semigroups and linear representations It is motivated by several recent developments in the area of linear semigroups and their applications It summarizes the state of knowledge in this area presenting the results for the first time in a unified form The book's point of departure is a structure theorem which allows the use of powerful techniques of linear groups Certain aspects of a combinatorial nature connections with the theory of linear representations and applications to various problems on associative algebras are also discussed

Interactions Between Ring Theory and Representations of Algebras Freddy

Van Oystaeyen, Manolo Saorin, 2000-04-05 This work is based on a set of lectures and invited papers presented at a meeting in Murcia Spain organized by the European Commission's Training and Mobility of Researchers TMR Programme It contains information on the structure of representation theory of groups and algebras and on general ring theoretic methods related to the theory

Cardinal Invariants on Boolean Algebras J. Donald Monk, 2010-03-25 This text covers cardinal number valued functions defined for any Boolean algebra such as cellularity It explores the behavior of these functions under algebraic operations such as products free products ultraproducts and their relationships to each other

Semigroups and Their Applications Simon M. Goberstein, Peter M. Higgins, 2012-12-06 Most papers published in this volume are based on lectures presented at the Chico Conference on Semigroups held on the Chico campus of the California State University on April 10-12 1986 The conference was sponsored by the California State University Chico in cooperation with the Engineering Computer Sciences Department of the Pacific Gas and Electric Company The program included seven 50 minute addresses and seventeen 30 minute lectures Speakers were invited by the organizing committee consisting of S M Goberstein and P M Higgins The purpose of the conference was to bring together some of the leading researchers in the area of semigroup theory for a discussion of major recent developments in the field The algebraic theory of semigroups is growing so rapidly and new important results are being produced at such a rate that the need for another meeting was well justified It was hoped that the conference would help to disseminate new results more rapidly among those working in semigroups and related areas and that the exchange of ideas would stimulate research in the subject even further These hopes were realized beyond all expectations

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