



Archimedean positively ordered semigroups with maximal elements

Tetsuya Ishiu¹

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Abstract

We prove that for every archimedean positively ordered semigroup S with a maximal element, if S satisfies one minor condition, then S is isomorphic to a mixture of P_1 and P_1^* in the notation of [2]. We also discuss a variation of metrizable spaces where we use a positively ordered semigroup to describe distances.

Keywords Linearly ordered semigroup · Positively ordered semigroup · archimedean · Maximal element

1 Introduction

A linearly ordered semigroup is a semigroup together with linear ordering that is consistent with the semigroup operation, defined as follows.

Definition 1 We say that (S, \cdot, \leq) is a *linearly ordered semigroup* if and only if (S, \cdot) is a semigroup, (S, \leq) is a linearly ordered set, and for all $a, x, y \in S$, if $x \leq y$, then $ax \leq ay$ and $xa \leq ya$.

K. H. Hofmann and J. D. Lawson gave a comprehensive survey on this structure in [4].

The following notion generalizes the structure of the set of non-negative real numbers $([0, \infty), +, \leq)$ together with ordinary addition and order.

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Positively Ordered Semigroups

**Polly Wee Sy, Wanida Hemakul, Sri
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Positively Ordered Semigroups:

Positively Ordered Semigroups M. Satyanarayana, 1979 **Semigroup Theory and Its Applications** Alfred Hombitzelle Clifford, 1996-05-16 This volume contains survey papers by the invited speakers at the Conference on Semigroup Theory and Its Applications which took place at Tulane University in April 1994 The authors represent the leading areas of research in semigroup theory and its applications both to other areas of mathematics and to areas outside mathematics Included are papers by Gordon Preston surveying Clifford's work on Clifford semigroups and by John Rhodes tracing the influence of Clifford's work on current semigroup theory Notable among the areas of application are the paper by Jean Eric Pin on applications of other areas of mathematics to semigroup theory and the paper by the editors on an application of semigroup theory to theoretical computer science and mathematical logic All workers in semigroup theory will find this volume invaluable

Positive Semigroups of Operators, and Applications O. Bratteli, P.E.T. Jørgensen, 1984-08-31 This means that semigroup theory may be applied directly to the study of the equation $I f h$ on M In 45 Yau proves that for $h > 0$ there are no nonconstant nonnegative solutions f in j for 1

Semigroups and Their Subsemigroup Lattices L.N. Shevrin, A.J. Ovsyannikov, 2013-03-09 0 1 General remarks For any algebraic system A the set $SubA$ of all subsystems of A partially ordered by inclusion forms a lattice This is the subsystem lattice of A In certain cases such as that of semigroups in order to have the right always to say that $SubA$ is a lattice we have to treat the empty set as a subsystem The study of various inter relationships between systems and their subsystem lattices is a rather large field of investigation developed over many years This trend was formed first in group theory basic relevant information up to the early seventies is contained in the book Suz and the surveys K Pek St Sad 2 Ar Sad there is also a quite recent book Schm 2 As another inspiring source one should point out a branch of mathematics to which the book Baer was devoted One of the key objects of examination in this branch is the subspace lattice of a vector space over a skew field A more general approach deals with modules and their submodule lattices Examining subsystem lattices for the case of modules as well as for rings and algebras both associative and non associative in particular Lie algebras began more than thirty years ago there are results on this subject also for lattices Boolean algebras and some other types of algebraic systems both concrete and general A lot of works including several surveys have been published here

Tensor Products and Regularity Properties of Cuntz Semigroups Ramon Antoine, Francesc Perera, Hannes Thiel, 2018-02-23 The Cuntz semigroup of an algebra is an important invariant in the structure and classification theory of algebras It captures more information than theory but is often more delicate to handle The authors systematically study the lattice and category theoretic aspects of Cuntz semigroups Given an algebra its concrete Cuntz semigroup is an object in the category of abstract Cuntz semigroups as introduced by Coward Elliott and Ivanescu To clarify the distinction between concrete and abstract Cuntz semigroups the authors call the latter semigroups The authors establish the existence of tensor products in the category and study the basic properties of this construction They show that

is a symmetric monoidal category and relate with for certain classes of algebras As a main tool for their approach the authors introduce the category of pre completed Cuntz semigroups They show that is a full reflective subcategory of One can then easily deduce properties of from respective properties of for example the existence of tensor products and inductive limits The advantage is that constructions in are much easier since the objects are purely algebraic *Partially Ordered Algebraic Systems* Laszlo Fuchs,2014-03-05 This monograph by a distinguished mathematician constitutes the first systematic summary of research concerning partially ordered groups semigroups rings and fields The high level self contained treatment features numerous problems 1963 edition *Non-Archimedean Utility Theory* Heinz J. Skala,2012-12-06 My interest in non Archimedean utility theory and the problems related to it was aroused by discussions which I have had with Professors Werner Leinfellner and G nter Menges On the occasion of the Second Inter national Game Theory Workshop Berkeley 1970 which was sponsored by the National Science Foundation I had the opportunity to report about a result on non standard utilities Work on this subject continued when I was a research assistant of Professor G nter Menges at the University of Heidelberg The present mono graph is essentially a translation of my habilitation thesis which was accepted on February 15 1973 by the Faculty of Economics and Social Sciences at the Universtity of Heidelberg On translating my thesis I took up some suggestions made by Professor Werner B ge from the Faculty of Mathematics at the Uni versity of Heidelberg Through lack of time many of his ideas have not been taken into consideration but I hope to do so in a future paper The first chapter should be considered as a short introduction to pref erence orderings and to the notion of a utility theory proposed by Dana Scott and Patrick Suppes In the second chapter I discuss in some detail various problems of ordinal utility theory Except when introducing non standard models of the reals no use is made of concepts of model theory This is done in deference to those readers who do not wish to be troubled by formal languages and model theory *Mathematical Topics on Representations of Ordered Structures and Utility Theory* Gianni Bosi,María J. Campión,Juan C. Candeal,Esteban Indurain,2020-01-23 This book offers an essential review of central theories current research and applications in the field of numerical representations of ordered structures It is intended as a tribute to Professor Ghanshyam B Mehta one of the leading specialists on the numerical representability of ordered structures and covers related applications to utility theory mathematical economics social choice theory and decision making Taken together the carefully selected contributions provide readers with an authoritative review of this research field as well as the knowledge they need to apply the theories and methods in their own work **Handbook of Formal Languages** Grzegorz Rozenberg,1997 This uniquely authoritative and comprehensive handbook is the first work to cover the vast field of formal languages as well as their applications to the divergent areas of linguistics dvelopmental biology computer graphics cryptology molecular genetics and programming languages The work has been divided into three volumes *Algebraic and Combinatorial Methods in Operations Research* R.E. Burkard,R.A. Cuninghame-Green,U. Zimmermann,1984-01-01 For the first time this book unites different algebraic

approaches for discrete optimization and operations research The presentation of some fundamental directions of this new fast developing area shows the wide range of its applicability Specifically the book contains contributions in the following fields semigroup and semiring theory applied to combinatorial and integer programming network flow theory in ordered algebraic structures extremal optimization problems decomposition principles for discrete structures Boolean methods in graph theory and applications **Canadian Journal of Mathematics** ,1967 *Semigroup Theory and Evolution Equations* Philippe Clement,2023-05-31 Proceedings of the Second International Conference on Trends in Semigroup Theory and Evolution Equations held Sept 1989 Delft University of Technology the Netherlands Papers deal with recent developments in semigroup theory e g positive dual integrated and nonlinear evolution equations e **Canadian Journal of Mathematics** ,1967 **Refinement Monoids, Equidecomposability Types, and Boolean Inverse Semigroups** Friedrich Wehrung,2017-09-09 Adopting a new universal algebraic approach this book explores and consolidates the link between Tarski s classical theory of equidecomposability types monoids abstract measure theory in the spirit of Hans Dobbertin s work on monoid valued measures on Boolean algebras and the nonstable K theory of rings This is done via the study of a monoid invariant defined on Boolean inverse semigroups called the type monoid The new techniques contrast with the currently available topological approaches Many positive results but also many counterexamples are provided [A Guide to the Literature on Semirings and their Applications in Mathematics and Information Sciences](#) K. Glazek,2013-06-29 This volume presents a short guide to the extensive literature concerning semirings along with a complete bibliography The literature has been created over many years in variety of languages by authors representing different schools of mathematics and working in various related fields In many instances the terminology used is not universal which further compounds the difficulty of locating pertinent sources even in this age of the Internet and electronic dissemination of research results So far there has been no single reference that could guide the interested scholar or student to the relevant publications This book is an attempt to fill this gap My interest in the theory of semirings began in the early sixties when together with Bogdan W glorz I tried to investigate some algebraic aspects of compactifications of topological spaces semirings of semicontinuous functions and the general ideal theory for special semirings Unfortunately local algebraists in Poland told me at that time that there was nothing interesting in investigating semiring theory because ring theory was still being developed However some time later we became aware of some similar investigations having already been done The theory of semirings has remained my first love ever since and I have been interested in the results in this field that have been appearing in literature even though I have not been active in this area myself *Canadian Journal of Mathematics* ,1967 **semigroup theory and applications** Phillippe Clement,2020-12-22 This book contains articles on maximal regulatory problems interpolation spaces multiplicative perturbations of generators linear and nonlinear evolution equations integrodifferential equations dual semigroups positive semigroups applications to control theory and boundary value problems *Semicrossed Products of*

Operator Algebras by Semigroups Kenneth R. Davidson, Adam Fuller, Evgenios T. A. Kakariadis, 2017-04-25 The authors examine the semicrossed products of a semigroup action by endomorphisms on a C algebra or more generally of an action on an arbitrary operator algebra by completely contractive endomorphisms The choice of allowable representations affects the corresponding universal algebra The authors seek quite general conditions which will allow them to show that the C envelope of the semicrossed product is a full corner of a crossed product of an auxiliary C algebra by a group action Their analysis concerns a case by case dilation theory on covariant pairs In the process we determine the C envelope for various semicrossed products of possibly nonselfadjoint operator algebras by spanning cones and lattice ordered abelian semigroups

Proceedings Of The International Conference On Algebra 2010: Advances In Algebraic Structures Polly Wee Sy, Wanida Hemakul, Sri Wahyuni, 2011-12-15 This volume is an outcome of the International Conference on Algebra in celebration of the 70th birthday of Professor Shum Kar Ping which was held in Gadjah Mada University on 7-10 October 2010 As a consequence of the wide coverage of his research interest and work it presents 54 research papers all original and referred describing the latest research and development and addressing a variety of issues and methods in semigroups groups rings and modules lattices and Hopf Algebra The book also provides five well written expository survey articles which feature the structure of finite groups by A Ballester Bolinches R Esteban Romero and Yangming Li new results of Gr bner Shirshov basis by L A Bokut Yuqun Chen and K P Shum polygroups and their properties by B Davvaz main results on abstract characterizations of algebras of n place functions obtained in the last 40 years by Wieslaw A Dudek and Valentin S Trokhimenko Inverse semigroups and their generalizations by X M Ren and K P Shum Recent work on cones of metrics and combinatorics done by M M Deza et al is included

A Structural Theory for Varieties of Tree Languages Saeed Salehi, 2010-02 Trees are among the most fundamental and ubiquitous structures in mathematics and computer science The notion of tree appears in many seemingly different areas from graph theory to universal algebra to logic Tree languages and automata on trees have been studied extensively since the 1960s from both a purely mathematical and application point of view Though the theory of tree automata and tree languages may have come into existence by generalizing string automata and languages but it could not have stayed alive for long as a mere generalization Apart from its intrinsic interest this theory has found several applications and offers new perspectives to various parts of mathematical linguistics It has been applied to the study of databases and XML schema languages and provides tools for syntactic pattern recognition When trees are defined as terms universal algebra becomes directly applicable to tree automata and tree languages and on the other hand the theory of tree automata and tree languages suggests new notions and problems to universal algebra In this book the theory has been studied from the algebraic viewpoint

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