



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

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