Bras-Amorós, Maria; Gotti, Marly
Atomicity and density of Puiseux monoids. (English) Zbl 1479.20043

A Puiseux monoid is a submonoid of \((\mathbb{Q}_{\geq 0}, +)\). The authors classify Puiseux monoids in terms of density, and characterize these classes. Quoting the authors’ abstract, “we study the density of the difference group, the root closure, and the conductor semigroup of a Puiseux monoid. Finally, we prove that every Puiseux monoid generated by a strictly increasing sequence of rationals is nowhere dense in the real line and has empty conductor.”

Reviewer: Moshe Roitman (Haifa)

MSC:

20M13 Arithmetic theory of semigroups
06F05 Ordered semigroups and monoids
20M14 Commutative semigroups
11B05 Density, gaps, topology

Keywords:
atomically dense monoid; atomicity; density; factorization; increasing monoid; Puiseux monoid

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References:


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