

Vítězslav Kala, Tomáš Kepka, Miroslav Korbelař
Notes on commutative parasemifields

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Abstract: Parasemifields (i.e., commutative semirings whose multiplicative semigroups are groups) are considered in more detail. We show that if a parasemifield S contains \mathbb{Q}^+ as a subparasemifield and is generated by $\mathbb{Q}^+ \cup \{a\}$, $a \in S$, as a semiring, then S is (as a semiring) not finitely generated.

Keywords: semiring, ideal-simple, parasemifield, finitely generated

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