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Finite nilsemigroups with modular congruence lattices. (English) Zbl 1446.20077
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Summary: This paper continues the joint work [Semigroup Forum 95, No. 2, 314–320 (2017; [Zbl 1422.20029](#))] of the author with *P. R. Jones*. We describe all finitely generated nilsemigroups with modular congruence lattices: there are 91 countable series of such semigroups. For finitely generated nilsemigroups a simple algorithmic test to the congruence modularity is obtained.

MSC:

[20M10](#) General structure theory for semigroups
[08A30](#) Subalgebras, congruence relations
[06C05](#) Modular lattices, Desarguesian lattices

Keywords:

[semigroup](#); [nilsemigroup](#); [congruence lattice](#)

Full Text: [DOI](#) [MNR](#)

References:

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- [2] Popovich A.L., Jones P.R., “On congruence lattices of nilsemigroups”, Semigroup Forum, 2016, 1-7 · [Zbl 1422.20029](#) · [doi:10.1007/s00233-016-9837-2](#)
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