

**Stepanova, A. A.**

**Monoids with stable torsion-free polygons.** (Russian, English) [Zbl 1016.20048](#)

*Algebra Logika* 41, No. 4, 481-492 (2002); translation in *Algebra Logic* 41, No. 4, 267-273 (2002).

Let  $S$  be a monoid with unity 1. An  $S$ -polygon is an algebraic system  ${}_S A = \langle A, s \rangle_{s \in S}$  with the properties  $s_1(s_2 a) = (s_1 s_2) a$  and  $1a = a$  for all  $s_1, s_2 \in S, a \in A$ . A polygon is torsion-free if  $sa = sb \Rightarrow a = b$  for all  $a, b \in A$  and all cancellable  $s \in S$ .

The author investigates the model theoretical structure of the class of torsion-free polygons.

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**MSC:**

[20M30](#) Representation of semigroups; actions of semigroups on sets

[03C45](#) Classification theory, stability, and related concepts in model theory

[03C60](#) Model-theoretic algebra

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torsion-free polygons; monoids; stability

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