Sabinin, L. V.; **Shelekhov, A. M.**

On the problem of universality of the identity of geometricity. (Russian) Zbl 0659.22003

Webs and quasigroups, Interuniv. thematic Collect. sci. Works, Kalinin 1988, 84-87 (1988).

[For the entire collection see Zbl 0632.00006.]

The identity of geometricity (1) $l_{x,y}(ty) = tl_{x,y}(y)$ where $l_{x,y} = L_{x,y^{-1}}L_xL_y$ and L is the operator of the right shift in the odule Q characterizes the right geometric odules [see *L. V. Sabinin*, Webs and quasigroups, Interuniv. thematic Collect. sci. Works, Kalinin 1987, 88-98 (1987; Zbl 0637.53014)]. However, isotopes of a geometric odule are not necessarily geometric odules, i.e. identity (1) does not turn into an equivalent identity under isotopy. In the paper under review a class of geometric odules is distinguished for which the identity (1) is preserved under isotopy.

Reviewer: V.Goldberg

MSC:

22A30 Other topological algebraic systems and their representations
20N05 Loops, quasigroups

Keywords:

identity of geometricity; right shift; right geometric odules; isotopes