1147-03-40 **Yuri Movsisyan*** (yurimovsisyan@yahoo.com) and **Marlen Yolchyan**. *Cayley-type theorem for g-dimonoids.*

An algebra $(D; \dashv, \vdash)$ with two associative binary operations is called a g-dimonoid [1], if it satisfies the following identities:

$$(x \dashv y) \dashv z = x \dashv (y \vdash z),$$
$$(x \dashv y) \vdash z = x \vdash (y \vdash z).$$

The g-dimonoid $(D; \dashv, \vdash)$ is called a dimonoid [2], if it satisfies the following additional identity $(x \vdash y) \dashv z = x \vdash (y \dashv z)$.

In this talk we present a Cayley-type theorem for g-dimonoids.

References

[1] Yu. M. Movsisyan, S. Davidov, M. Safaryan, *Construction of free g-dimonoids.* Algebra Discrete Math., 18:1 (2014), 138-148.

[2] J. L. Loday, *Dialgebras. Dialgebras and Related Operads.* Lect. Notes Math., Springer, Berlin (2001), pp. 7-66.

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