

Vasile I. Ursu

On quasivarieties of nilpotent Moufang loops. II

Comment.Math.Univ.Carolin. 53,3 (2012) 491 –499.

Abstract: In this part of the paper we study the quasiidentities of the nilpotent Moufang loops. In particular, we solve the problem of finite basis for quasiidentities in the finitely generated nilpotent Moufang loop.

Keywords: basis, loop, associator, commutator, nilpotent, variety, quasivariety

AMS Subject Classification: 20N05

REFERENCES

- [1] Ol'shanskii A.Yu., *Conditional identities in finite groups*, Sibirsk. Mat. Zh. **15** (1974), no. 6, 1409–1413.
- [2] Budkin A.I., *Quasiidentities of nilpotent groups and groups with one relation*, Algebra i Logika **18** (1979), no. 2, 127–136.
- [3] Ursu V.I., *On quasiidentities of finitely generated commutative Moufang loops*, Algebra i Logika **30**, (1991), no. 6, 726–734.
- [4] Bruck R.H., *A Survey of Binary Systems*, Springer, Berlin-Heidelberg-New York, 1958.
- [5] Kargapolov M.I., Merzlyakov Yu.I., *Fundamentals of Group Theory*, Moscow, Nauka, 1982.
- [6] Dlab V., Kořínek V., *The Frattini subgroup of a direct product of groups*, Czechoslovak Math. J. **10** (1960), 50–358.
- [7] Mal'cev A.I., *Algebraic Systems*, Moscow, Nauka, 1970.
- [8] Vinogradov A.A., *Quasivarieties of Abelian groups*, Algebra i Logika Sem. **4** (1965), no. 6, 15–18.
- [9] Ursu V.I., *On identities of nilpotent Moufang loops*, Rev. Roumaine Math. Pures Appl. **45** (2000), no. 3, 537–548.