

Volume 1, No 3, p. 25 – 37 (2013)

## On isoclinic left Bol three-webs with the trivial core

## G. D. Geghamyan<sup>1,a</sup> and G. A. Tolstikhina<sup>2,b</sup>

 $^{1}$  Faculty of Mathematics, Tver State University, Sadovyi per. 35, Tver, Russia

<sup>2</sup> Pedagogical Faculty, Tver State University, Griboedov Street, 24, Tver, Russia e-mail: <sup>a</sup> geg geghamyan@yahoo.com, <sup>b</sup> tga 56@mail.ru

Abstract. We find equations of a multidimensional isoclinic left Bol three-web whose core is trivial (that is, the core is isotopic to an Abelian group).

Keywords: Bol three-web, isoclinic three-web, symmetric space

MSC numbers: 53A60

## References

- Tolstikhina G.A., Shelekhov A.M. Bol transformation quasigroups. Doklady Math., v. 71, N 2, 2005, 201-203.
- [2] Akivis M.A., Shelekhov A.M. Geometry and Algebra of Multidimensional Three-Webs/ Kluwer Academic Publishers, Dordrecht/Boston/ London, 1992, xvii+358 pp.
- [3] Tolstikhina G.A., Shelekhov A.M. Bol three-webs generated by foliations of different dimensions. Russian Math. (Iz. Vuz), v. 49, N 5, 52-58, 2005.
- [4] Belousov V.D. The core of a Bol loop. Studying in general algebra. 1965, Kishinev, pp. 53 - 65 (Russian)
- [5] Tolstikhina G.A. On locally flat structures connected with a Bol web. Algebraic methods in geometry. 1992, Moscow, Peoples' Friendship University of Russia, pp. 56 - 61 (Russian).
- [6] Geghamyan G.D., Tolstikhina G.A. On left Bol webs with trivial cores. Bulletin of Tver State University. Series: Applied mathematics. 2012, Issue 2(25), N 17, pp. 99-114 (Russian)
- [7] Ivanov A.D. On interpretation of Bol four-webs in the three-dimensional projective space. Geometry of homogeneous spaces. 1973, Moscow, Moscow State Pedagogical Institute, pp. 42 – 57 (Russian)