

List of Books, Papers, Translated Books and Edited Volumes of Yuri Bahturin

Research Papers

- [1] Two remarks on varieties of Lie algebras. *Mat. Zametki* **4** (1968), 387–398 (in Russian); English translation in: *Math. Notes* **4** (1968), 725–730 (1969).
- [2] A certain identity algorithm. *Sibirsk. Mat. Zh.* **12** (1971), 459–462 (in Russian); English translation in: *Sib. Math. J.* **12** (1971), 328–330.
- [3] The approximation of Lie algebras. *Mat. Zametki* **12** (1972), 713–716 (in Russian). English translation in: *Math. Notes* **12** (1972), 868–870 (1973).
- [4] Polynomial identities in universal enveloping algebras. *Uspehi Mat. Nauk* **27**, 4(166) (1972), 201–202 (in Russian).
- [5] Identities in Lie algebras. I, II. *Vestnik Moskov. Univ. Ser. I Mat. Meh.* **28**, 1 (1973), 12–18; 2 (1973), 30–37 (in Russian); English translation in: *Mosc. Univ. Math. Bull.* **28**, 1–2 (1973), 9–15; 63–68.
- [6] Identities in the universal envelopes of Lie algebras. Collection of Articles Dedicated to the Memory of Hanna Neumann, IX. *J. Austral. Math. Soc.* **18** (1974), 10–21.
- [7] Identical relations in finite Lie rings. *Mat. Sb. (N.S.)* **96(138)**, 4 (1975), 543–559, 645 (in Russian); English translation in: *Math. USSR, Sb.* **25** (1975), 507–523 – with A. Olshanskii.
- [8] Identities in metabelian Lie algebras. *Tr. Semin. Im. I. G. Petrovskogo* **1** (1975), 45–56 (in Russian).
- [9] Solvable just-non-Cross varieties of Lie rings. *Mat. Sb. (N.S.)* **100(142)**, 3 (1976), 384–399 (in Russian); English translation in: *Math. USSR, Sb.* **29** (1976), 345–358 (1978) – with A. Olshanskii.
- [10] The approximation and characteristic subalgebras of free Lie algebras. *Tr. Semin. Im. I. G. Petrovskogo* **2** (1976), 145–150 (in Russian) – with A. Olshanskii.
- [11] Simple Lie algebras satisfying a nontrivial identity. *Serdica Bulg. Math. Publ.* **2**, 3 (1976), 241–246.

- [12] A remark on irreducible representations of Lie algebras. *J. Austral. Math. Soc. Ser. A* **27**, 3 (1979), 332–336.
- [13] On identical relations in free polynilpotent Lie algebras. *J. London Math. Soc. (2)* **20**, 1 (1979), 39–52.
- [14] On special Lie algebras. *Algebra, Collect.*, Moscow, 1980, 26–30 (in Russian).
- [15] Two-variable identities in the Lie algebra $\mathfrak{sl}(2, k)$. *Tr. Semin. Im. I. G. Petrovskogo* **5** (1979), 205–208 (in Russian). English translation in: *Topics in Modern Mathematics, Petrovskii Semin.* **5** (1985), 259–263.
- [16] On homomorphisms of soluble Lie algebras. *J. London Math. Soc. (2)* **20** (1979), 415–422.
- [17] On Lie subalgebras of associative PI-algebras. *J. Algebra* **67**, 2 (1980), 257–271.
- [18] Special varieties of Lie algebras. *Algebra i Logika* **20**, 5 (1981), 522–530, 599 (in Russian); English translation in: *Algebra Logic* **20** (1982), 341–346.
- [19] On basic and axiomatic ranks of nilpotent varieties of Lie algebras. In: *Universal Algebra and Applications, Semester 1978, Warsaw, Banach Cent. Publ. vol. 9* (1982), 21–30.
- [20] Artinian special Lie algebras. *Algebra, Work Collect.*, Dedic. O. Yu. Shmidt, Moscow, Moscow State Univ., 1982, 24–26 (in Russian).
- [21] Identities in the universal enveloping algebra for a Lie superalgebra. *Mat. Sb. (N.S.)* **127(169)**, 3(7) (1985), 384–397 (in Russian); *Math. USSR, Sb.* **55** (1986), 383–396.
- [22] On the structure of the PI-envelope of a finite dimensional Lie algebra. *Izv. Vyssh. Uchebn. Zaved. Mat. 11* (1985), 60–62 (in Russian); English translation in: *Sov. Math.* **29**, 11 (1985), 83–87.
- [23] PI-envelopes of finite-dimensional Lie algebras. *Visnik Kïv. Univ. Ser. Mat. Mekh.* **27** (1985), 12–14, 122 (in Ukrainian).
- [24] Residual finiteness of solvable varieties of Lie algebras. *Vestn. Mosk. Univ., Ser. I Mat. Mekh.* **6** (1986), 59–61 (in Russian); English translation in: *Mosc. Univ. Math. Bull.* **41**, 6 (1986), 49–51 – with K. N. Semenov.

- [25] Identities of solvable color Lie superalgebras. *Algebra i Logika* **26**, 4 (1987), 403–418, 525 (in Russian); English translation in: *Algebra Logic* **26**, 4 (1987), 229–240 – with V. S. Drensky.
- [26] On degrees of irreducible representations of Lie superalgebras. *C. R. Math. Acad. Sci., Soc. R. Can.* **10**, 1 (1988), 19–24.
- [27] Lie superalgebras with bounded dimensions of irreducible representations. *Mat. Sb.* **180**, 2 (1989), 195–206, 304 (in Russian); English translation in: *Math. USSR, Sb.* **66**, 1 (1990), 199–209.
- [28] Automorphisms and derivations of abelian extensions of some Lie algebras. *Abh. Math. Sem. Univ. Hamburg* **62** (1992), 43–57 – with S. Natiyev.
- [29] Residual finiteness of color Lie superalgebras. *Trans. Amer. Math. Soc.* **337**, 1 (1993), 159–180 – with M. V. Zaicev.
- [30] Cohomologies of certain Lie algebras with an abelian ideal. *Uspekhi Mat. Nauk* **48**, 3(291) (1993), 183–184 (in Russian); English translation in: *Russ. Math. Surv.* **48**, 3 (1993), 181–182 – with D. Pagon.
- [31] Identities and representations of enveloping algebras. In: Recent Developments in the Theory of Algebras with Polynomial Identities (ed. A. Giambruno). Papers of Short Courses Offered at the Conference Held in Palermo, Italy, June 15–18, 1992. *Suppl. Rend. Circ. Mat. Palermo, II. Ser.* **31** (1993), 45–95.
- [32] Locally finite-dimensional simple Lie algebras. *Mat. Sb.* **185**, 2 (1994), 3–32 (in Russian); English translation in: *Russ. Acad. Sci., Sb., Math.* **81**, 1 (1995), 137–161 – with H. Strade.
- [33] Identities of sums of commutative subalgebras. *Rend. Circ. Mat. Palermo* (2) **43**, 2 (1994), 250–258 – with A. Giambruno.
- [34] Universal sums of abelian subalgebras. *Comm. Algebra* **23**, 8 (1995), 2975–2990 – with O. H. Kegel.
- [35] Some examples of locally finite simple Lie algebras. *Arch. Math. (Basel)* **65**, 1 (1995), 23–26 – with H. Strade.
- [36] On Lie algebras with wild automorphisms. *Results Math.* **28**, 3–4 (1995), 209–213 – with V. Shpilrain.

- [37] Centers of enveloping algebras for locally finite-dimensional simple Lie algebras. *Commun. Algebra* **24**, 3 (1996), 1157–1172 – with I. A. Yanson.
- [38] Rigidity of free algebras in varieties of Lie algebras. *Commun. Algebra* **24**, 12 (1996), 3719–3724 – with D. Pagon and M. Zaicev.
- [39] On the generalized Lie structure of associative algebras. *Israel J. Math.* **96** (1996), part A, 27–48 – with D. Fischman and S. Montgomery.
- [40] Addendum to: “Centers of enveloping algebras for locally finite-dimensional simple Lie algebras” [*Comm. Algebra* **24**, 3 (1996), 1157–1172 by Bahturin and I. A. Yanson.] *Comm. Algebra* **25**, 2 (1997), 671–672.
- [41] Symmetric identities in graded algebras. *Arch. Math. (Basel)* **69**, 6 (1997), 461–464 – with A. Giambruno and M. V. Zaicev.
- [42] Highest weight modules for locally finite Lie algebras. Modular Interfaces. Modular Lie Algebras, Quantum Groups, and Lie Superalgebras. A Conference in Honor of Richard E. Block on the Occasion of his Retirement, Riverside, CA, USA, February 18–20, 1995. Providence, RI, AMS/IP Stud. *Adv. Math.* **4** (1997), 1–31 – with G. Benkart.
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- [45] Identities of graded algebras. *J. Algebra* **205**, 1 (1998), 1–12 – with M. V. Zaicev.
- [46] Identities of special Jordan algebras with finite grading. *Vestn. Mosk. Univ. Ser. I Mat. Mekh.* **2** (1998), 26–29, 73 (in Russian); English translation in: *Moscow Univ. Math. Bull.* **53**, 2 (1998), 28–31 – with M. V. Zaicev.
- [47] Identities of algebras with actions of Hopf algebras. In: *Methods in Ring Theory. Proceedings of the Trento Conference, Trento, Italy* (eds V. Drensky et al.). *Lect. Notes Pure Appl. Math.* vol. **198**, New York, Marcel Dekker, 1998, 1–36.
- [48] G -identities on associative algebras. *Proc. Amer. Math. Soc.* **127**, 1 (1999), 63–69 – with A. Giambruno and M. Zaicev.

- [49] PI-envelopes of Lie superalgebras. *Proc. Amer. Math. Soc.* **127**, 10 (1999), 2829–2839 – with S. Montgomery.
- [50] Sums of simple subalgebras. *J. Math. Sci. (New York)* **93**, 6 (1999), 830–835 – with O. H. Kegel.
- [51] On the Lie and associative codimensions growth. *Comm. Algebra* **27**, 10 (1999), 4901–4908 – with S. Mishchenko and A. Regev.
- [52] G -identities of nonassociative algebras. *Mat. Sb.* **190**, 11 (1999), 3–14 (in Russian); English translation in: *Sb. Math.* **190**, 11 (1999), 1559–1570 – with M. V. Zaitsev and S. K. Sehgal.
- [53] Codimension growth and graded identities. In: Algebra. Proceedings of the International Algebraic Conference on the Occasion of the 90th Birthday of A. G. Kurosh, Moscow, Russia, May 25–30, 1998. Berlin, Walter de Gruyter, 2000, 57–76 – with A. Giambruno and M. Zaicev.
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- [55] Bicharacters, twistings, and Scheunert’s theorem for Hopf algebras. *J. Algebra* **236**, 1 (2001), 246–276 – with D. Fischman and S. Montgomery.
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- [57] Gradings of simple Jordan algebras and their relation to the gradings of simple associative algebras. Special Issue Dedicated to Alexei Ivanovich Kostrikin. *Comm. Algebra* **29**, 9 (2001), 4095–4102 – with I. Shestakov.
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- [59] Polynomial identities in smash products. *J. Lie Theory* **12**, 2 (2002), 369–395 – with V. Petrogradsky.
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- [88] Graded tensor products. *J. Pure Appl. Algebra* **213**, 9 (2009), 1643–1650 – with A. Regev.
- [89] Schreier rewriting beyond the classical setting. *Sci. China Ser. A* **52**, 2 (2009), 231–243 – with A. Olshanskii.
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- [93] Actions of maximal growth. *Proc. Lond. Math. Soc. (3)* **101**, 1 (2010), 27–72 – with A. Olshanskii.
- [94] Classification of group gradings on simple Lie algebras of types \mathcal{A} , \mathcal{B} , \mathcal{C} and \mathcal{D} . *J. Algebra* **324**, 11 (2010), 2971–2989 – with M. Kochetov.
- [95] Jordan gradings on associative algebras. *Algebr. Represent. Theory* **14**, 1 (2011), 113–129 – with M. Brešar and I. Shestakov.
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- [97] Group gradings on restricted Cartan-type Lie algebras. *Pacific J. Math.* **253**, 2 (2011), 289–319 – with M. Kochetov.
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- [99] Group gradings on free algebras of nilpotent varieties of algebras. *Serdica Math. J.* **38**, 1–2 (2012), 1–6.
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Books and surveys

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- [110] N. BOURBAKI. Lie Groups and Algebras. Lie Algebras, Free Lie Algebras and Lie Groups. Elements of Mathematics, Moscow, Mir, 1976. 496 pp. (in Russian, translated from the French with G. I. Olshanskii).
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Edited Volumes

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- [115] YU. A. BAKHTURIN, A. I. BUDKIN, M. V. VOLKOV et al. Varieties of Algebraic Systems. Preprint 86-647. Akad. Nauk SSSR Sibirsk. Otdel., Vychisl. Tsent, Novosibirsk, 1986, 43 pp. (in Russian).
- [116] A. I. KOSTRIKIN. Around Burnside. Moscow, Nauka, 1986 (eds Yu. A. Bahturin, V. V. Donchenko) (in Russian).
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Other publications

- [123] A Collection of Problems on Algebra. Textbook. Moscow, Nauka, 1987, 352 pp. (in Russian) – with V. A. Artamonov, E. B. Vinberg, E. S. Golod et al.

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