

## Andrey Vasil'ev

### List of main publications

1. Mazurov V.D. and Vasil'ev A.V. Minimal permutation representations of finite simple orthogonal groups // Algebra and Logic, 1994, Vol. 33, N 6, 337–350.
2. Vasil'ev A.V. Minimal permutation representations of finite simple exceptional groups of types  $G_2$  and  $F_4$  // Algebra and Logic, 1996, Vol. 35, N 6, 371–383.
3. Vasil'ev A.V. Minimal permutation representations of finite simple exceptional groups of types  $E_6$ ,  $E_7$  and  $E_8$  // Algebra and Logic, 1997, Vol. 36, N 5, 302–310.
4. Vasil'ev A.V. Minimal permutation representations of finite simple exceptional twisted groups // Algebra and Logic, 1998, Vol. 37, N 1, 9–20.
5. Vasil'ev A.V. Recognition of groups  $G_2(3^n)$  by their element orders // Algebra and Logic, 2002, Vol. 41, N 2, 74–80.
6. Vasil'ev A.V. and Grechkoseeva M.A. On recognition of the finite simple orthogonal groups of dimension  $2^m$ ,  $2^m + 1$  and  $2^m + 2$  over a field of characteristic 2 // Sib. Math. J., 2004, Vol. 45, N 3, 420–432.
7. Cao H.P., Chen G., Grechkoseeva M.A., Mazurov V.D., Shi W.J., and Vasil'ev A.V. Recognition of the finite simple groups  $F_4(2^m)$  by spectrum // Sib. Math. J., 2004, Vol. 45, N 6, 1031–1035.
8. Vasil'ev A.V. On recognition of all finite nonabelian simple groups with orders having prime divisors at most 13 // Sib. Math. J., 2005, Vol. 46, N 2, 246–253.
9. Vasil'ev A.V. On connection between the structure of a finite group and the properties of its prime graph // Sib. Math. J., 2005, Vol. 46, N 3, 396–404.
10. Vasil'ev A.V. and Grechkoseeva M.A. On recognition by spectrum of finite simple linear groups over fields of characteristic 2 // Sib. Math. J., 2005, Vol. 46, N 4, 593–600.
11. Vasiliev A.V. and Vdovin E.P. An adjacency criterion for the prime graph of a finite simple group // Algebra and Logic, 2005, Vol. 44, N 6, 381–406.
12. Grechkoseeva M.A., Lucido M.S., Mazurov V.D., Moghaddamfar A.R., and Vasil'ev A.V. On recognition of the projective special linear groups over the binary field // Sib. El. Math. Rep., 2005, Vol. 2, 253–263.
13. Chen G.Y., Mazurov V.D., Shi W.J., Vasil'ev A.V., and Zhurtov A.Kh. Recognition of the finite almost simple groups  $PGL_2(q)$  by their spectrum // J. Group Theory, 2007, Vol. 10, 71–85.
14. Grechkoseeva M.A., Shi W.J., and Vasil'ev A.V. Recognition by spectrum of  $L_{16}(2^m)$  // Algebra Colloq., 2007, Vol. 14, N 4, 585–591.
15. Grechkoseeva M.A., Shi W.J., and Vasil'ev A.V. Recognition by spectrum of finite simple groups of Lie type // Front. Math. China, 2008, Vol. 3, N 2, 275–285.

16. *Vasil'ev A.V. and Grechkoseeva M.A.* Recognition by spectrum for finite simple linear groups of small dimensions over fields of characteristic 2 // *Algebra and Logic*, 2008, Vol. 47, N 5, 314–320.
17. *Vasil'ev A.V. and Gorshkov I.B.* On recognition of finite simple groups with connected prime graph // *Sib. Math. J.*, 2009, Vol. 50, N 2, 233–238.
18. *Vasil'ev A.V., Gorshkov I.B., Grechkoseeva M.A., Kondrat'ev A.S., and Staroletov A.M.* On recognition by spectrum of finite simple groups of types  $B_n$ ,  $C_n$ , and  ${}^2D_n$  with  $n = 2^k$  // *Proc. Steklov Inst. Math.*, 2009, Suppl. 3, S218–S233.
19. *Vasil'ev A.V., Grechkoseeva M.A., and Mazurov V.D.* On finite groups isospectral to symplectic and orthogonal groups // *Sib. Math. J.*, 2009, Vol. 50, N 6, 965–981.
20. *Vasil'ev A.V., Grechkoseeva M.A., and Mazurov V.D.* Characterization of the finite simple groups by spectrum and order // *Algebra and Logic*, 2009, Vol. 48, N 6, 385–409.
21. *Vasil'ev A.V.* On Thompson's Conjecture // *Sib. El. Math. Rep.*, 2009, Vol. 6, 457–464.
22. *Vasil'ev A.V., Grechkoseeva M.A., and Mazurov V.D.* Recognizability of the finite simple groups by spectrum and order // *Doklady Mathematics*, 2010, Vol. 81, N 2, 216–218.
23. *Vasil'ev A.V., Grechkoseeva M.A., and Staroletov A.M.* On finite groups isospectral to linear and unitary groups // *Sib. Math. J.*, 2011, Vol. 52, N 1, 30–40.
24. *Vasil'ev A.V. and Vdovin E.P.* Cocliques of maximal size in the prime graph of a finite simple group // *Algebra and Logic*, 2011, Vol. 50, N 4, 292–322.
25. *Vasil'ev A.V. and Staroletov A.M.* Recognizability of groups  $G_2(q)$  by spectrum // *Algebra and Logic*, 2013, Vol. 52, N 1, 1–14.
26. *Buturlakin A.A. and Vasil'ev A.V.* Locally finite groups with bounded centralizer chains // *Algebra and Logic*, 2013, Vol. 52, N 5, 367–370.
27. *Ponomarenko I. and Vasil'ev A.V.* On non-abelian Schur groups // *J. Algebra Appl.*, 2014, Vol. 13, N 8, 1450055 (22 pages).
28. *Buturlakin A.A. and Vasil'ev A.V.* On constructive recognition of finite simple groups by element orders // *Algebra and Logic*, 2014, Vol. 53, N 4, 349–351.
29. *Vasil'ev A.V. and Staroletov A.M.* Almost recognizability by spectrum of simple exceptional groups of Lie type // *Algebra and Logic*, 2014, Vol. 53, N 6, 433–449.
30. *Vasil'ev A.V.* On finite groups isospectral to simple classical groups // *J. Algebra*, 2015, Vol. 423, 318–374.
31. *Grechkoseeva M.A. and Vasil'ev A.V.* On the structure of finite groups isospectral to finite simple groups // *J. Group Theory*, 2015, Vol. 18, N 5, 741–759.
32. *Vasil'ev A.V. and Grechkoseeva M.A.* Recognition by spectrum for simple classical groups in characteristic 2 // *Sib. Math. J.*, 2015, Vol. 56, N 6, 1009–1018.
33. *Vasil'ev A.V. and Skresanov S.V.* On L. G. Kovàcs' problem // *Algebra and Logic*, 2016, Vol. 55, N 4, 340–344.

34. *Churikov D.V. and Vasil'ev A.V.* Automorphism groups of cyclotomic schemes over finite near-fields // *Sib. El. Math. Rep.* 2016. V. 13, P. 1271–1282.

35. *Ponomarenko I. and Vasil'ev A.V.* Cartan coherent configurations // *J. Algebra Comb.*, 2017, Vol. 45, N 2, 525–552.

36. *Ponomarenko I. and Vasil'ev A.V.* Testing isomorphism of central Cayley graphs over almost simple groups in polynomial time // *Zapiski Nauchnykh Seminarov POMI*, 2017, Vol. 455, 154–180.