

PUBLICATIONS OF ALEXEI BORODIN (MAY 2002)

1. *Limit Jordan normal form of large triangular matrices over a finite field.* *Funct. Anal. Appl.* **29** (1996), no. 4, 279–281.
2. *Multiplicative central measures on the Schur graph.* (Russian) *Zap. Nauchn. Sem. S.-Peterburg. Otdel. Mat. Inst. Steklov. (POMI)* **240** (1997), 44–52, 290–291; translation in *Jour. Math. Sci. (New York)* **96** (1999), no. 5, 3472–3477.
3. *The law of large numbers and the central limit theorem for the Jordan normal form of large triangular matrices over a finite field.* (Russian) *Zap. Nauchn. Sem. S.-Peterburg. Otdel. Mat. Inst. Steklov. (POMI)* **240** (1997), 18–43, 290; translation in *Jour. Math. Sci. (New York)* **96** (1999), no. 5, 3455–3471.
4. *Biorthogonal ensembles.* *Nuclear Phys. B* **536** (1999), no. 3, 704–732.
5. (joint paper with Grigori Olshanski) *Point processes and the infinite symmetric group.* *Math. Res. Lett.* **5** (1998), no. 6, 799–816.
6. *Longest increasing subsequences of random colored permutations.* *Electron. J. Combin.* **6** (1999), no. 1, Research Paper 13, 12 pp.
7. *Characters of symmetric groups and correlation functions of point processes.* *Funct. Anal. Appl.* **34** (2000), no. 1, 12–28.
8. (joint paper with Grigori Olshanski) *Distributions on partitions, point processes, and the hypergeometric kernel.* *Comm. Math. Phys.* **211** (2000), no. 2, 335–358.
9. (joint paper with Andrei Okounkov and Grigori Olshanski) *Asymptotics of Plancherel measures for symmetric groups.* *J. Amer. Math. Soc.* **13** (2000), no. 3, 481–515.
10. (joint paper with Grigori Olshanski) *Z-Measures on partitions, Robinson-Schensted-Knuth correspondence, and $\beta = 2$ random matrix ensembles.* *Mathematical Sciences Research Institute Publications* **40** (2001), 71–94.
11. (joint paper with Andrei Okounkov) *A Fredholm determinant formula for Toeplitz determinants.* *Integral Equations and Operator Theory* **37** (2000), 386–396.
12. *Riemann–Hilbert problem and the discrete Bessel kernel.* *Intern. Math. Res. Notices* (2000), no. 9, 467–494.
13. (joint paper with Grigori Olshanski) *Harmonic functions on multiplicative graphs and interpolation polynomials.* *Electron. J. Combin.* **7** (2000), Research Paper 29, 39 pp.
14. *Harmonic analysis on the infinite symmetric group and the Whittaker kernel.* *St. Petersburg Math. J.* **12** (2001), no. 5, 733–759.
15. (joint paper with Grigori Olshanski) *Infinite random matrices and ergodic measures.* *Comm. Math. Phys.* **223** (2001), no. 1, 87–123.
16. *Duality of orthogonal polynomials on a finite set,* Preprint 2000, 9 pp., available via <http://arxiv.org/abs/math.CA/0101125>.
17. (joint paper with Grigori Olshanski) *Harmonic analysis on the infinite-dimensional unitary group and determinantal point processes,* Preprint 2001, 88 pp., available via <http://arxiv.org/abs/math.RT/0109194>.
18. *Asymptotic representation theory and Riemann–Hilbert problem,* to appear in *Proceedings of St. Petersburg Summer School on Asymptotic Combinatorics and Mathematical Physics*, 15 pp., available via <http://arxiv.org/abs/math.RT/0110318>.
19. (joint paper with Percy Deift) *Fredholm determinants, Jimbo-Miwa-Ueno tau-functions, and representation theory,* to appear in *Comm. Pure Appl. Math.*,

62 pp., available via <http://arxiv.org/abs/math-ph/0111007>.

20. *Discrete gap probabilities and discrete Painleve equations*, to appear in Duke Math. J., 43 pp., available via <http://arxiv.org/abs/math-ph/0111008>.

21. (joint paper with Dmitriy Boyarchenko) *Distribution of the first particle in discrete orthogonal polynomial ensembles*, Preprint 2002, 41 pp., available via <http://arxiv.org/abs/math-ph/0204001>.

22. (Joint paper with Peter Forrester) *Increasing subsequences and the hard-to-soft edge transition in matrix ensembles*, Preprint 2002, 19 pp., available via <http://arxiv.org/abs/math-ph/0205007>.