Leonid Petrov. Publication List

Works in progress

- 1. (with Alexei Borodin, Ivan Corwin, and Vadim Gorin) Integrable Probability (book)
- 2. PushTASEP in inhomogeneous space
- 3. (with Alexey Bufetov and Matteo Mucciconi) Yang-Baxter fields for spin q-Whittaker polynomials

Preprints (*), accepted, or published works

- [30] (*) (with Ivan Corwin and Konstantin Matveev) *The q-Hahn PushTASEP*, arXiv:1811.06475 [math.PR].
- [29] (*) (with Alisa Knizel and Axel Saenz-Rodriguez) Generalizations of TASEP in discrete and continuous inhomogeneous space, arXiv:1808.09855 [math.PR]. Submitted. PDF link
- [28] (*) (with Christian Gromoll, Mark Meckes) *Quenched Central Limit Theorem in a Corner Growth Setting*, arXiv:1804.04222 [math.PR]. Submitted. PDF link
- [27] (*) (with Alexey Bufetov) *Yang-Baxter field for spin Hall-Littlewood symmetric functions,* arXiv:1712.04584 [math.PR]. Submitted. PDF link
- [26] (with Michael Damron and David Sivakoff) Coarsening model on \mathbb{Z}^d with biased zero-energy flips and an exponential large deviation bound for ASEP, arXiv:1708.05806 [math.PR]. To appear in **Comm. Math. Phys. PDF** link
- [25] (with Sevak Mkrtchyan) *GUE corners limit of q-distributed lozenge tilings,* **Electron. J. Probab.** 22 (2017), paper no. 101, 24 pp, arXiv:1703.07503 [math.PR]. PDF link
- [24] (with Alexei Borodin) *Inhomogeneous exponential jump model*, arXiv:1703.03857 [math.PR]. To appear in **Probab. Th. Rel. Fields.** PDF link
- [23] (with Daniel Orr) Stochastic higher spin six vertex model and q-TASEPs, Adv. Math. 317 (2017), 473-525, arXiv:1610.10080 [math.PR]. PDF link
- [22] (with Vadim Gorin) *Universality of local statistics for noncolliding random walks* (2016), arXiv:1608.03243 [math.PR]. To appear in **Ann. Probab.** PDF link
- [21] (with Alexei Borodin) Lectures on Integrable probability: Stochastic vertex models and symmetric functions (2016), arXiv:1605.01349 [math.PR]. Lecture Notes of the Les Houches Summer School, Volume 104, July 2015. PDF link

- [20] (with Alexei Borodin) *Higher spin six vertex model and symmetric rational functions* (2016), **Selecta Math.** 24 (2018), no. 2, 751–874, arXiv:1601.05770 [math.PR]. PDF link
- [19] (with Konstantin Matveev) *q-randomized Robinson—Schensted—Knuth correspondences and random polymers* (2015), **Annales de l'Institut Henri Poincaré D: Combinatorics, Physics and their Interactions** 4 (2017), no. 1, 1-123, arXiv:1504.00666 [math.PR]. PDF link
- [18] (with Ivan Corwin) *Stochastic higher spin vertex models on the line*, **Comm. Math. Phys.** 343 (2016), no. 2, 651–700, DOI: 10.1007/s00220-015-2479-5, arXiv:1502.07374 [math.PR]. PDF link
- [17] (with Alexei Borodin, Ivan Corwin, and Tomohiro Sasamoto) *Spectral theory for interacting particle systems solvable by coordinate Bethe ansatz*, **Comm. Math. Phys.** 339 (2015), no. 3, 1167–1245, DOI: 10.1007/s00220-015-2424-7, arXiv:1407.8534 [math-ph]. PDF link
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- [15] (with Alexei Borodin) *Integrable probability: From representation theory to Macdonald processes,* **Probability Surveys** 11 (2014), 1–58, arXiv:1310.8007 [math.PR]. PDF link
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