## Leonid Petrov. Publication List

## Preprints (\*), accepted, or published works

- [33] (\*) PushTASEP in inhomogeneous space, arXiv:1910.08994 [math.PR]. PDF link
- [32] (\*) (with Axel Saenz) Mapping TASEP back in time, arXiv:1907.09155 [math.PR]. PDF link
- [31] (with Alexey Bufetov and Matteo Mucciconi) Yang-Baxter random fields and stochastic vertex models, arXiv:1905.06815 [math.PR]. Adv. Math., to appear. PDF link
- [30] (with Ivan Corwin and Konstantin Matveev) *The q-Hahn PushTASEP*, arXiv:1811.06475 [math.PR]. **Intern. Math. Research Notices**, to appear. PDF link
- [29] (with Alisa Knizel and Axel Saenz) Generalizations of TASEP in discrete and continuous inhomogeneous space, Commun. Math. Phys. (2019), online, https://link.springer.com/article/10.1007%2Fs00220-019-03495-4. arXiv:1808.09855 [math.PR]. PDF link
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- [27] (with Alexey Bufetov) Yang-Baxter field for spin Hall-Littlewood symmetric functions, arXiv:1712.04584 [math.PR]. Forum of Mathematics Sigma, 7 (2019), e39. PDF link
- [26] (with Michael Damron and David Sivakoff) Coarsening model on Z<sup>d</sup> with biased zero-energy flips and an exponential large deviation bound for ASEP, Comm. Math. Phys. 362 (2018) no. 1, 185–217, arXiv:1708.05806 [math.PR].
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- [24] (with Alexei Borodin) *Inhomogeneous exponential jump model*, **Probab. Th. Rel. Fields.** 172 (2018), 323-385, arXiv:1703.03857 [math.PR]. PDF link
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- [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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- [14] (with Alexei Borodin, Ivan Corwin, and Tomohiro Sasamoto) Spectral theory for the q-Boson particle system, Compositio Mathematica 151 (2015), no. 1, 1–67, arXiv:1308.3475 [math-ph]. PDF link
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