## Leonid Petrov. Publication List

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

- [40] Leonid Petrov. Noncolliding Macdonald walks with an absorbing wall, SIGMA 18 (2022), 079, 21 pages. arXiv:2204.09206 [math.PR]. (PDF link)
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- [37] Leonid Petrov. Refined Cauchy identity for spin Hall-Littlewood symmetric rational functions, Journal of Combinatorial Theory Ser. A, vol. 184 (2021), 105519. arXiv:2007.10886 [math.CO]. (PDF link)
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- [35] Leonid Petrov, Mikhail Tikhonov. Parameter symmetry in perturbed GUE corners process and reflected drifted Brownian motions, Journal of Statistical Physics, 181 (2020), 1996-2010. arXiv:1912.08671 [math.PR]. (PDF link)
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- [27] Alexey Bufetov, Leonid Petrov. Yang-Baxter field for spin Hall-Littlewood symmetric functions, Forum of Mathematics Sigma 7 (2019), e39. arXiv:1712.04584 [math.PR]. (PDF link)
- [26] Michael Damron, Leonid Petrov, David Sivakoff. Coarsening model on Zd with biased zero-energy flips and an exponential large deviation bound for ASEP, Communications in Mathematical Physics 362 (2018), no. 1, 185-217. arXiv:1708.05806 [math.PR]. (PDF link)
- [25] Sevak Mkrtchyan, Leonid Petrov. *GUE corners limit of q-distributed lozenge tilings*, Electronic Journal of Probability, Volume 22 (2017), paper no. 101, 24 pp. arXiv:1703.07503 [math.PR]. (PDF link)
- [24] Alexei Borodin, Leonid Petrov. *Inhomogeneous exponential jump model*, Probability Theory and Related Fields 172 (2018), 323-385. arXiv:1703.03857 [math.PR]. (PDF link)
- [23] Daniel Orr, Leonid Petrov. *Stochastic higher spin six vertex model and q-TASEPs*, Advances in Mathematics 317 (2017), 473-525. arXiv:1610.10080 [math.PR]. (PDF link)
- [22] Vadim Gorin, Leonid Petrov. *Universality of local statistics for noncolliding random walks*, Annals of Probability (2019), Vol. 47, No. 5, 2686-2753. arXiv:1608.03243 [math.PR]. (PDF link)
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- [10] Leonid Petrov. Asymptotics of uniformly random lozenge tilings of polygons. Gaussian free field, Annals of Probability, 43 (2014), no. 1, 1-43. arXiv:1206.5123 [math.PR]. (PDF link)
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- [1] Leonid Petrov. *Asymptotic Behavior of a Certain Collection of Particles on a Line Under Synchronization*, Proceedings of the XXVIII Conference of Young Scientists of Department of Mechanics and Mathematics of the Lomonosov Moscow State University (2006), 152-156, in Russian. (PDF link)

## Other works

[1] Sihan Li, Andrew Mecca, Jeewoo Kim, Giusy Caprara, Elizabeth Wagner, Ting-Ting Du, Leonid Petrov, Wenhao Xu, Runjia Cui, Ivan Rebustini, Bechara Kachar, Anthony Peng, and Jung-Bum Shin, *Myosin-VIIa is expressed in multiple isoforms and essential for tensioning the hair cell mechanotransduction complex*. Nature Communications, 11, Article number: 2066 (2020). https://www.nature.com/articles/s41467-020-15936-z.