PUBLICATION LIST

In Preparation

• Dong Wang, The largest eigenvalue of real symmetric, Hermitian and Hermitian self-dual random matrix models with rank one external source, part II.

Papers and Preprints

- 23. Swapnil Yadav, Kazi Alam, Khandker Muttalib and Dong Wang, Generalized random matrix model with additional interactions, *J. Phys. A*, 53 (2020), no. 1, 015001, 15 pp.
- 22. Zhipeng Liu, Axel Saenz and Dong Wang, Integral formulas of ASEP and q-TAZRP on a ring, https://arxiv.org/abs/1905.02987.
- 21. Dang-Zheng Liu, Dong Wang and Yanhui Wang, Lyapunov exponent, universality and phase transition for products of random matrices, https://arxiv.org/abs/1810.00433, accepted by Comm. Math. Phys..
- 20. Karl Liechty and Dong Wang, Asymptotics of free fermions in a quadratic well at finite temperature and the Moshe-Neuberger-Shapiro random matrix model, *Ann. Inst. Henri Poincaré Probab. Stat.*, 56 (2020), no. 2, 1072–1098.
- 19. Eunghyun Lee and Dong Wang, Distributions of a particle's position and their asymptotics in the q-deformed totally asymmetric zero range process with site dependent jumping rates, Stochastic Process. Appl., 129 (2019), no. 5, 1795–1828.
- 18. Karl Liechty and Dong Wang, Nonintersecting Brownian bridges between reflecting or absorbing walls, Adv. Math., 309 (2017), 155–208.
- 17. Tom Claeys, Arno B. J. Kuijlaars, Karl Liechty and Dong Wang, Propagation of singular behavior for Gaussian perturbations of random matrices, *Comm. Math. Phys.*, 362 (2018), no. 1, 1–54.
- 16. Karl Liechty and Dong Wang, Two Lax systems for the Painlevé II equation, and two related kernels in random matrix theory, SIAM J. Math. Anal., 48 (2016), no. 5, 3618–3666.
- 15. Dong Wang and David Waugh, The transition probability of the q-TAZRP (q-Bosons) with inhomogeneous jump rates, SIGMA 12 (2016), 036, 16 pp, Contribution to the special

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- 13. Peter J. Forrester and Dong Wang, Muttalib–Borodin ensembles in random matrix theory—realisations and correlation functions, *Electron. J. Probab.*, 22 (2017), paper no. 54, 43pp.
- 12. Dang-Zheng Liu, Dong Wang and Lun Zhang, Bulk and soft-edge universality for singular values of products of Ginibre random matrices, Ann. Inst. Henri Poincaré Probab. Stat., 52 (2016), no. 4, 1734–1762.
- 11. Ivan Corwin, Zhipeng Liu and Dong Wang, Fluctuations of TASEP and LPP with general initial data, *Ann. Appl. Probab.*, 26 (2016), no. 4, 2030–2082.
- 10. Karl Liechty and Dong Wang, Nonintersecting Brownian motions on the unit circle, *Ann. Probab.*, 44 (2016), no. 2, 1134–1211.
- 9. Mark Adler, Pierre van Moerbeke and Dong Wang, Random matrix minor processes related to percolation theory, *Random Matrices Theory Appl.*, 2 (2014), no. 4, 135008, 72pp.
- 8. Tom Claeys and Dong Wang, Random matrices with equispaced external source, *Comm. Math. Phys.*, 328 (2014), no. 3, 1023–1077.
- 7. Jinho Baik and Dong Wang, On a relationship between high rank cases and rank one cases of Hermitian random matrix models with external source, *Random Matrix Theory, Interacting Particle Systems and Integrable Systems*, Edited by Percey Deift and Peter Forrester, MSRI Publications 65 (2014), Cambridge University Press, Cambridge, 25–38.
- 6. Jinho Baik and Dong Wang, On the largest eigenvalue of a Hermitian random matrix model with spiked external source II. Higher rank case, *Int. Math. Res. Not. IMRN*, (2013) no. 14, 3304–3370.
- 5. Dong Wang, The largest eigenvalue of real symmetric, Hermitian and Hermitian self-dual random matrix models with rank one external source, part I, *J. Stat. Phys.*, 146 (2012) no. 4, 719–761.
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- 3. Dong Wang, Random matrices with external source and KP τ functions, J. Math. Phys., 50 (2009), no. 7, 073506, 10pp.
- 2. Dong Wang, The largest sample eigenvalue distribution in the rank 1 quaternionic spiked model of Wishart ensemble, Ann. Probab., 37 (2009), no. 4, 1273–1328.

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Thesis

• Spiked Models in Wishart Ensemble, Brandeis University, 2008.