List of Publications

Submitted Manuscripts

P1. *Reevaluating Loss Functions: Enhancing Robustness to Label Noise in Deep Learning Models*, Max Staats, Mathias Thamm, and Bernd Rosenow, preprint arXiv:2306.05497 (2023).

P2. *Correlated Noise in Epoch-Based Stochastic Gradient Descent: Implications for Weight Variances*, Marcel Kühn and Bernd Rosenow, preprint arXiv:2306.0530 (2023).

P3. *Metal-insulator transition in a boundary three chain model*, Niels John, Yuval Gefen, and Bernd Rosenow, preprint arXiv:2202.04374 (2022).

Refereed Publications

1. *Online Learning for the Random Feature Model in the Student-Teacher Framework*, R. Worschech and B. Rosenow, preprint arXiv:2303.14083, accepted as Letter in Phys. Rev. Res. (2024).

2. *Topological and magnetic properties of the interacting Bernevig-Hughes-Zhang model*, Rahul Soni, Harini Radhakrishnan, Bernd Rosenow, Gonzalo Alvarez, and Adrian Del Maestro, preprint arXiv:2310.17614 (2023), accepted in Phys. Rev. B (2024).

3. *Effect of the Soliton Width on Nonequilibrium Exchange Phases of Anyons*, M. Thamm and B. Rosenow, Phys. Rev. Lett. **132**, 156501 (2024).

4. *Dynamical breaking of the electron-hole symmetry in non-equilibrium chiral quantum channels*, Felix Puster, Stefan G. Fischer, and Bernd Rosenow, Physical Review B **109**, L081112 (2024).

5. *Conductance based machine learning of optimal gate voltages for disordered Majorana wires*, M. Thamm and B. Rosenow, Physical Review B **109**, 045132 (2024).

6. *Boundary between noise and information applied to filtering neural network weight matrices*, Max Staats, Matthias Thamm, and Bernd Rosenow, Phys. Rev. E **108**, L022302 (2023).

7. *Near-frozen nonequilibrium state at high energy in an integrable system*, Stefan G. Fischer, Yigal Meir, Yuval Gefen, and Bernd Rosenow, Phys. Rev. B **108**, L081121 (2023).

8. *Machine learning optimization of Majorana hybrid nanowires*, Matthias Thamm and Bernd Rosenow, Phys. Rev. Lett. **130**, 116202 (2023).

9. *A Scaling Function for the Particle Entanglement Entropy of Fermions*, Harini Radhakrishnan, Matthias Thamm, Hatem Barghathi, Bernd Rosenow, and Adrian Del Maestro, J. Stat. Mech. 083101 (2023).

10. *Random matrix analysis of deep neural network weight matrices*, Matthias Thamm, Max Staats, and Bernd Rosenow, Phys. Rev. E **106**, 054124 (2022).

11. em One-particle entanglement for one-dimensional spinless fermions after an interaction quantum quench, Matthias Thamm, Harini Radhakrishnan, Hatem Barghathi, Bernd Rosenow, and Adrian Del Maestro, Phys. Rev. B **106**, 165116 (2022).

12. *Robustness of helical edge states under edge reconstruction*, Niels John, Adrian Del Maestro, and Bernd Rosenow, Europhys, Lett. **140**, 26002 (2022).

13. *Soft mode in the dynamics of over-realizable online learning for soft committee machines*, Frederieke Richert, Roman Worschech, and Bernd Rosenow, Physical Review E **105**, L052302 (2022).

14. *Measuring postquench entanglement entropy through density correlations*, Adrian Del Maestro, Hatem Barghathi, and Bernd Rosenow, Phys. Rev. Res. **4**, L022023 (2022).

15. *Optimized steering: Quantum state engineering and exceptional points*, Parvin Kumar, Kyrylo Snizhko, Yuval Gefen, and Bernd Rosenow, Phys. Rev. A **105**, L010203 (2022).

16. *Equivalence of spatial and particle entanglement growth after a quantum quench*, Adrian Del Maestro, Hatem Barghathi, and Bernd Rosenow, Phys, Rev. B **104**, 195101 (2021).

17. *Tunable topological states hosted by unconventional superconductors with adatoms*, Andreas Kreisel, Timo Hyart,vand Bernd Rosenow, Phys. Rev. Res. **3**, 033049 (2021).

18. *Transmission amplitude through a Coulomb blockaded Majorana wire*, Matthias Thamm and Bernd Rosenow, Phys. Rev. Res. **3**, 023221 (2021).

19. *Exponentially growing bulk Green functions as signature of nontrivial non-Hermitian winding number in one dimension*, Heinrich-Gregor Zirnstein and Bernd Rosenow, Phys. Rev. B **103**, 195157 (2021).

20. *Bulk-boundary correspondence for non-Hermitian Hamiltonians via Green functions*, Heinrich-Gregor Zirnstein, Gil Refael, Bernd Rosenow, Phys. Rev. Lett. **126**, 216407 (2021).

21. *Fractional Coulomb blockade for quasi-particle tunneling between edge channels*, Marc P. Röösli, Michael Hug, Giorgio Nicoli, Peter M arki, Christian Reichl, Bernd Rosenow, Werner Wegscheider, Klaus Ensslin, and Thomas Ihn, Science Advances **7**, eabf5547 (2021).

22. *Symmetry-related transport on a fractional quantum Hall edge*, Jinhong Park, Bernd Rosenow, and Yuval Gefen, Phys. Rev. Res. **3**, 023083 (2021).

23. *Electron pairing in the quantum Hall regime due to neutralon exchange*, Giovanni A. Frigeri and Bernd Rosenow, Phys. Rev. Res. **2**, 043396 (2020).

24. *Topological Magnetoelectric Effect: Nonlinear Time-Reversal-Symmetric Response, Witten Effect, and Half-Integer Quantum Hall Effect*, Heinrich-Gregor Zirnstein and Bernd Rosenow, Physica Status Solidi B **257**, 1900698 (2020).

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26. *Partial Equilibration of the Anti-Pfaffian edge due to Majorana Disorder*, Steven H. Simon and Bernd Rosenow, Phys. Rev. Lett. **124**, 126801 (2020).

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