

List of Publications

Submitted Manuscripts

- P1. *A time-reversal symmetric topological magnetoelectric effect in 3D topological insulators*, Heinrich-Gregor Zirnstein, Bernd Rosenow, arXiv:1705.02217 (2017).

Refereed Publications

1. *Negative permittivity in bubble and stripe phases*, B. Friess, Y. Peng, B. Rosenow, F. von Oppen, V. Umansky, K. von Klitzing, and J.H. Smet, *Nature Physics*, doi:10.1038/nphys4213 (2017).
2. *Dissipation in mesoscale superfluids*, Adrian Del Maestro, Bernd Rosenow, *Phys. Rev. B* **95**, 140507(R) (2017).
3. *Disorder, synchronization and phase locking in non-equilibrium Bose-Einstein condensates*, Paul R. Eastham and Bernd Rosenow, contributed chapter for book "Universal themes of Bose-Einstein condensation", edited by David Snoke, Peter Littlewood and Nick Proukakis, Cambridge University Press, (2017).
4. *Transient Features in Charge Fractionalization, Local Equilibration and Non-equilibrium Bosonization*, Alexander Schneider, Mirco Milletari, and Bernd Rosenow, *SciPost Phys.* 2, 007 (2017).
5. *Exceptional points in anisotropic planar microcavities* Steffen Richter, Tom Michalsky, Chris Sturm, Bernd Rosenow, Marius Grundmann, and Rüdiger Schmidt-Grund, *Phys. Rev. A* **95**, 023836 (2017).
6. *Current Correlations from a Mesoscopic Anyon Collider*, Bernd Rosenow, Ivan P. Levkivskyi, and Bertrand I. Halperin, *Phys. Rev. Lett.* **116**, 156802 (2016).
7. *Enhancing Triplet Superconductivity by the Proximity to a Singlet Superconductor in Oxide Heterostructures*, M. Horsdal, G. Khaliullin, T. Hyart, and B. Rosenow, *Phys. Rev. B* **93**, 220502(R) (2016).
8. *Topological superconductivity in Quantum Hall-superconductor hybrid systems* Björn Zocher and Bernd Rosenow, *Phys. Rev. B* **93**, 214504 (2016).
9. *Topological Polaritons in a Quantum Spin Hall Cavity*, A. Janot, B. Rosenow, G. Refael, *Phys. Rev. B* **93**, 161111(R) (2016).

10. *Nonlocal Polarization Feedback in a Fractional Quantum Hall Ferromagnet*, Szymon Hennel, Beat A. Braem, Stephan Baer, Lars Tiemann, Pirouz Sohi, Dominik Wehrli, Andrea Hofmann, Christian Reichl, Werner Wegscheider, Clemens Rössler, Thomas Ihn, Klaus Ensslin, Mark S. Rudner, and Bernd Rosenow, Phys. Rev. Lett. **116**, 136804 (2016).
11. *Backscattering in helical edge states from a magnetic impurity and Rashba disorder*, Lukas Kimme, Bernd Rosenow, Arne Brataas, Phys. Rev. B **93**, 081301(R) (2016).
12. *Cavity Polariton Condensate in a Disordered Environment*, M. Thunert, A. Janot, H. Franke, C. Sturm, T. Michalsky, M. Martin, L. Vina, B. Rosenow, M. Grundmann, R. Schmidt-Grund, Phys. Rev. B **93**, 064203 (2016).
13. *Thermodynamic properties of a quantum Hall anti-dot interferometer*, Sarah Levy Schreier, Ady Stern, Bernd Rosenow, and Bertrand I. Halperin, Physica E **76**, 82 (2016).
14. *Enhanced bulk-edge Coulomb coupling in Fractional Fabry-Perot interferometers*, C.W. von Keyserlingk, S.H. Simon, and Bernd Rosenow, Phys. Rev. Lett. **115**, 126807 (2015).
15. *Intermediate fixed point in a Luttinger liquid with elastic and dissipative backscattering*, Alexander Altland, Yuval Gefen, Bernd Rosenow, Phys. Rev. B **92**, 085124 (2015).
16. *Critical Flow and Dissipation in a Quasi-One-Dimensional Superfluid*, P-F Duc, M. Savard, M. Petrescu, B. Rosenow, A. Del Maestro, and G. Gervais, Science Advances **1**, e1400222 (2015).
17. *Noise due to neutral modes in the $\nu=2/3$ fractional quantum Hall state*, So Takei, Bernd Rosenow, Ady Stern, Phys. Rev. B **91**, 241104(R) (2015).
18. *Symmetry-protected topological invariant and Majorana impurity states in time-reversal invariant superconductors*, Lukas Kimme, Timo Hyart, and Bernd Rosenow, Phys. Rev. B **91**, 220501(R) (2015).
19. *Zeeman field induced topological phase transitions in triplet superconductors*, Timo Hyart, Anthony R. Wright, Bernd Rosenow, Phys. Rev. B **90**, 064507 (2014).
20. *Unconventional pairing and electronic dimerization instabilities in the doped Kitaev-Heisenberg model*, Daniel D. Scherer, Michael M. Scherer, Giniyat Khaliullin, Carsten Honerkamp, Bernd Rosenow, Phys. Rev. B **90**, 045135 (2014).
21. *Transmission Phase Lapses through a Quantum Dot in a Strong Magnetic Field*, Yehuda Dinaii, Yuval Gefen, Bernd Rosenow, Phys. Rev. Lett. **112**, 246801 (2014).

22. *Suppression of dephasing and phase lapses in the fractional quantum Hall regime*, Yehuda Dinaii, Yuval Gefen, Bernd Rosenow, Phys. Rev. B **89**, 241402(R) (2014); Selected by the editors of PRB to be an Editors' Suggestion.
23. *Superfluid Stiffness of a Driven Dissipative Condensate with Disorder*, Alexander Janot, Timo Hyart, Paul R. Eastham, Bernd Rosenow, Phys. Rev. Lett. **111**, 230403 (2013).
24. *Shot Noise Signatures of Charge Fractionalization in the $\nu = 2$ Quantum Hall edge*, Mirco Milletari and Bernd Rosenow, Phys. Rev. Lett. **111**, 136807 (2013).
25. *Modulation of Majorana induced current cross-correlations by quantum dots*, Björn Zocher and Bernd Rosenow, Phys. Rev. Lett. **111**, 036802 (2013).
26. *Cancellation of Quantum Anomalies and Bosonization of the 3D Time-Reversal Symmetric Topological Insulator*, Heinrich-Gregor Zirnstein and Bernd Rosenow, Phys. Rev. B **88**, 085105 (2013).
27. *Robustness of Topological Order in Semiconductor-Superconductor Nanowires in the Coulomb Blockade Regime*, Björn Zocher, Mats Horsdal, and Bernd Rosenow, New Journal of Physics **15**, 085003 (2013).
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29. *Influence of topological excitations on Shapiro steps and microwave dynamical conductance in bilayer exciton condensates*, Timo Hyart and Bernd Rosenow, Phys. Rev. Lett. **110**, 076806 (2013).
30. *Backscattering Between Helical Edge States via Dynamic Nuclear Polarization*, Adrian Del Maestro, Timo Hyart, and Bernd Rosenow, Phys. Rev. B **87**, 165440 (2013).
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32. *Scanning gate spectroscopy of transport across a quantum Hall nano-island*, F. Martins, S. Faniel, B. Rosenow, M.G. Pala, H. Sellier, S. Huant, L. Desplanque, X. Wallart, V. Bayot, and B. Hackens, New Journal of Physics **15**, 013049 (2013).
33. *Proposed detection of the topological phase in ring-shaped semiconductor-superconductor nanowires using Coulomb blockade transport*, B. Zocher, M. Horsdal, and B. Rosenow, Phys. Rev. Lett. **109**, 227001 (2012).

34. *Splitting of roton minimum in the $\nu = 5/2$ Moore-Read state*, Anthony R. Wright, Bernd Rosenow, Phys. Rev. B **86**, 115329 (2012).
35. *Zero temperature Dephasing and the Friedel Sum Rule*, B. Rosenow and Y. Gefen, Phys. Rev. Lett. **108**, 256805 (2012).
36. *Telegraph noise and the Fabry-Perot quantum Hall interferometer*, B. Rosenow and S. H. Simon, Phys. Rev. B **85**, 201302(R) (2012).
37. *Competition between d-wave and topological p-wave superconductivity in the doped Kitaev-Heisenberg model*, T. Hyart, T. Wright, G. Khaliullin und B. Rosenow, Phys. Rev. B **85**, 140510(R) (2012).
38. *Incoherent scatterer in a Luttinger liquid: a new paradigmatic limit*, Alexander Altland, Yuval Gefen, Bernd Rosenow, Rev. Lett. **108**, 136401 (2012).
39. *A Quantized $\nu = 5/2$ State in a Two-Subband Quantum Hall System*, J. Nuebler, B. Friess, V. Umansky, B. Rosenow, M. Heiblum, K. v. Klitzing, J. Smet, Phys. Rev. Lett. **108**, 046804 (2012).
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41. *Gapless excitations in strongly fluctuating superconducting wires*, Dganit Meidan, Bernd Rosenow, Yuval Oreg, Gil Refael, Phys. Rev. Lett. **107**, 227004 (2011).
42. *Signatures of non-Abelian statistics in non-linear coulomb blockaded transport*, R. Ilan, B. Rosenow, and A. Stern, Phys. Rev. Lett. **106**, 136801 (2011).
43. *Theory of the Fabry-Perot Quantum Hall Interferometer*, B.I. Halperin, A. Stern, I. Neder, and B. Rosenow, Phys. Rev. B **83**, 155440 (2011).
44. *Quantitative description of Josephson-like tunneling in $\nu_T = 1$ quantum Hall bilayers*, T. Hyart and B. Rosenow, Phys. Rev. B **83**, 155315 (2011).
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Conference Proceedings

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