

LIST OF PUBLICATIONS

(July 24, 2017)

- [1] S. Bachmann, A. Bols, W. De Roeck, and M. Fraas. Quantization of conductance in gapped interacting systems. *arXiv preprint math-ph/1707.06491*, 2017.
- [2] S. Bachmann, W. De Roeck, and M. Fraas. The adiabatic theorem and linear response theory for extended quantum systems. *arXiv preprint math-ph/1705.02838*, 2017.
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- [4] S. Bachmann. Local disorder, topological ground state degeneracy and entanglement entropy, and discrete anyons. *Reviews in Mathematical Physics*, 29(6):1750018, 2017.
- [5] S. Bachmann and A. Bluhm. Local factorisation of the dynamics of quantum spin systems. *Journal of Mathematical Physics*, 58:071901, 2017.
- [6] S. Bachmann and F. Genoud. Mean-field limit and phase transitions for nematic liquid crystals in the continuum. *To appear in Journal of Statistical Physics*, *arXiv:1508.05025*, 2017.
- [7] S. Bachmann, M. Fraas, and G.M. Graf. Dynamical crossing of an infinitely degenerate critical point. *Annales Henri Poincaré*, 18(5):1755–1776, 2017.
- [8] S. Bachmann, W. Dybalski, and P. Naaijken. Lieb–Robinson Bounds, Arveson Spectrum and Haag–Ruelle Scattering Theory for Gapped Quantum Spin Systems. *Annales Henri Poincaré*, 17:1737–1791, 2016.
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- [14] S. Bachmann, M. Butz, and W. de Roeck. Disordered quantum wires: Microscopic origins of the DMPK theory and Ohm’s law. *Journal of Statistical Physics*, 148:164–189, 2012.
- [15] S. Bachmann and B. Nachtergaele. Product vacua with boundary states. *Physical Review B*, 86:035149, Jul 2012.

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- [17] S. Bachmann, S. Michalakis, B. Nachtergaele, and R. Sims. Automorphic equivalence within gapped phases of quantum lattice systems. *Communications in Mathematical Physics*, 309(3):835–871, 2012.
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