List of Publications

Simone Warzel

In Preparation:

- H. Siedentop, R. Frank, S. Warzel,
  *The energy of heavy atoms according Brown and Ravenhall: the Scott correction*

- W. Kirsch, S. Warzel,
  *Poisson statistics for localized surface states*

Publications:

[1] M. Aizenman, F. Germinet, A. Klein, S. Warzel,
*On Bernoulli decompositions for random variables, concentration bounds, and spectral localization*,
Available at: http://arxiv.org/abs/0707.0095

[2] H. Siedentop, R. Frank, S. Warzel,
*The ground state energy of heavy atoms: relativistic lowering of the leading energy correction*,
Available at: http://arxiv.org/abs/math-ph/0702056

[3] M. Aizenman, S. Warzel,
*The canopy graph and level statistics for random operators on trees*,

[4] M. Aizenman, B. Sims, S. Warzel,
*Stability of the absolutely continuous spectrum of random Schrödinger operators on tree graphs*,

[5] M. Aizenman, B. Sims, S. Warzel,
*Fluctuation based proof of the stability of ac spectra of random operators on tree graphs*,
In: *Recent Advances in Differential Equations and Mathematical Physics* Eds.: N. Chernov, Y. Karpeshina, I.W. Knowles, R.T. Lewis, R. Weikard

[6] M. Aizenman, B. Sims, S. Warzel,
*Absolutely continuous spectra of quantum tree graphs with weak disorder*,

[7] W. Kirsch, S. Warzel,
*Anderson localization and Lifshits tails for random surface potentials*,
[8] H. Leschke, S. Warzel, A. Weichlein,
Energetic and transport properties of a quantum particle in a spatially random
magnetic field with constant correlations along one direction,

[9] M. Aizenman, S. Warzel,
Persistence under weak disorder of ac spectra of quasi-periodic Schrödinger
operators on trees graphs,

[10] W. Kirsch, S. Warzel,
Lifshits tails caused by anisotropic decay: the emergence of a quantum-classical
regime,

Ballistic transport in random magnetic fields with anisotropic long-ranged
correlations,

[12] H. Leschke, S. Warzel,
Quantum-classical transitions in Lifshits tails with magnetic fields,

[13] H. Leschke, P. Müller, S. Warzel,
A survey of rigorous results on random Schrödinger operators for amorphous
solids,
Reprinted on p. 119-151 in:
J.-D. Deuschel, A. Greven (eds.),
Interacting Stochastic Systems,

[14] D. Hundertmark, W. Kirsch, S. Warzel,
Classical magnetic Lifshits tails in three space dimensions: impurity potentials
with slow anisotropic decay,

[15] G. Raikov, S. Warzel,
Quasi-classical versus non-classical spectral asymptotics for magnetic Schrödinger
operators with decreasing electric potentials,

[16] G. Raikov, S. Warzel,
Spectral asymptotics for magnetic Schrödinger operators with rapidly decreas-
ing electric potentials,

[17] H. Leschke, R. Ruder, S. Warzel,
Simple diamagnetic monotonicities for Schrödinger operators with inhomogeneous magnetic fields of constant direction,

[18] T. Hupfer, H. Leschke, S. Warzel,
Upper bounds on the density of states of single Landau levels broadened by Gaussian random potentials,

[19] T. Hupfer, H. Leschke, P. Müller, S. Warzel,
The absolute continuity of the integrated density of states for magnetic Schrödinger operators with certain unbounded random potentials,

[20] T. Hupfer, H. Leschke, P. Müller, S. Warzel,
Existence and uniqueness of the integrated density of states for Schrödinger operators with magnetic fields and unbounded random potentials,

[21] T. Hupfer, H. Leschke, S. Warzel,
The multiformity of Lifshits tails caused by random Landau Hamiltonians with repulsive impurity potentials of different decay at infinity,

[22] T. Hupfer, H. Leschke, S. Warzel,
Poissonian obstacles with Gaussian walls discriminate between classical and quantum Lifshits tailing in magnetic fields,

[23] B. Bodmann, H. Leschke, S. Warzel,
A rigorous path-integral for quantum spin dynamics via planar Brownian motion,
Pages 173-176 in:
Path-integrals from peV to TeV - Firenze ’98,
eds. V. Tognetti, R. Vaia, R. Casalbuoni, R. Gachetti, P. Verrucchi, World Scientific 1999

[24] B. Bodmann, H. Leschke, S. Warzel,
A rigorous path-integral for quantum spin using flat-space Wiener regularization,
PhD- Thesis: