

# Dr. Roland Winkler: List of Publications

January 15, 2012

## Books

- [1] *Spin-Orbit Coupling Effects in Two-Dimensional Electron and Hole Systems*  
**R. Winkler**, Springer Tracts in Modern Physics (Springer, Berlin, 2003), Vol. 191.  
Full text available online at <http://www.springerlink.com>

## Invited Articles

- [2] *Interessant ist der Rand*  
**R. Winkler** and C. Ast, *Physik Journal* **10**(10), 22 (2011), 2 pages.  
“*Physik Journal*” is the monthly journal for the members of the German Physical Society
- [3] *Inelastic Light Scattering of Hole Spin Excitations in p-Modulation-Doped GaAs-AlGaAs Single Quantum Wells*  
M. Hirmer, M. Hirmer, T. Korn, D. Schuh, W. Wegscheider, **R. Winkler**, and C. Schüller, *Proc. SPIE* **8100**, p. 81000N, 8 pages.
- [4] *Spin-Orbit Interaction and Transport in GaAs Two-Dimensional Holes*  
B. Habib, M. Shayegan, and **R. Winkler**; special issue “The Effects of Spin-Orbit Interaction on Charge Transport” *Semicond. Sci. Technol.* **24**, 064002 (2009), 13 pages.
- [5] *Spin Orientation of Holes in Quantum Wells*  
**R. Winkler**, D. Culcer, S. J. Papadakis, B. Habib, and M. Shayegan; special issue “Optical Orientation”, *Semicond. Sci. Technol.* **23**, 114017 (2008), 13 pages.
- [6] *Spin-Dependent Transport of Carriers in Semiconductors*  
**R. Winkler**, in *Handbook of Magnetism and Advanced Magnetic Materials*, edited by H. Kronmüller and S. Parkin, (Wiley, Chichester, 2007), Vol. V, p. 2830, 14 pages.
- [7] *Magnetic Focusing of Charge Carriers From Spin-Split Bands: Semiclassics of a Zitterbewegung Effect*  
U. Zülicke, J. Bolte, and **R. Winkler**, *New J. Phys.* **9**, 355 (2007), 14 pages.
- [8] *Maple 11 – mit neuen Physik-Werkzeugen (product review)*  
**R. Winkler**, *Physik Journal* **6**(6), 60 (2007), 3 pages.

- [9] *F. Wang: Physics with Maple (book review)*  
**R. Winkler**, *Physik Journal* **5(9)**, 121 (2006), 1 page.
- [10] *Spin statt Ladung*  
**R. Winkler**, *Physik Journal* **4(12)**, 17 (2005), 2 pages.
- [11] *Spintronik*  
**R. Winkler** and M. Oestreich, *Physik Journal* **3(11)**, 39 (2004), 6 pages.
- [12] *Spin-Orbit Coupling in Two-Dimensional Electron and Hole Systems*  
**R. Winkler**, S. J. Papadakis, E. P. De Poortere, and M. Shayegan, in *Advances in Solid State Physics*, edited by B. Kramer (Springer, Heidelberg, 2001), **Vol. 41**, p. 211, 13 pages.

## Refereed Articles

- [13] *Reentrant  $\nu = 1$  Quantum Hall State in a Two-Dimensional Hole System*  
A. L. Graninger, D. Kamburov, M. Shayegan, L. N. Pfeiffer, K. W. West, K. W. Baldwin, and **R. Winkler**, *Phys. Rev. Lett.* **107**, 176810 (2011), 5 pages.
- [14] *Fingerprints of the Anisotropic Spin-Split Hole Dispersion in Resonant Inelastic Light Scattering in Two-Dimensional Hole Systems*  
M. Hirmer, M. Hirmer, D. Schuh, W. Wegscheider, T. Korn, **R. Winkler** and C. Schüller, *Phys. Rev. Lett.* **107**, 216805 (2011), 5 pages.
- [15] *Effective Mass and Spin Susceptibility of Dilute Two-Dimensional Holes in GaAs*  
Y. T. Chiu, M. Padmanabhan, T. Gokmen, J. Shabani, E. Tutuc, M. Shayegan, and **R. Winkler**, *Phys. Rev. B* **84**, 155459 (2011), 7 pages.
- [16] *Invariant Expansion for the Trigonal Band Structure of Graphene*  
**R. Winkler** and U. Zülicke, *Phys. Rev. B* **82**, 245313 (2010), 9 pages.
- [17] *Time Reversal of Pseudo-Spin 1/2 Degrees of Freedom*  
**R. Winkler** and U. Zülicke, *Phys. Lett. A* **374**, 4003 (2010), 4 pages.
- [18] *Rashba Spin-Splitting of Electrons in Asymmetric Quantum Wells*  
P. S. Eldridge, W. J. H. Leyland, P. G. Lagoudakis, R. T. Harley, R. T. Phillips, **R. Winkler**, M. Henini, and D. Taylor *Phys. Rev. B* **82**, 045317 (2010), 6 pages.
- [19] *Side-Jumps in the Spin-Hall Effect: Construction of the Boltzmann Collision Integral*  
D. Culcer, E. M. Hankiewicz, G. Vignale, and **R. Winkler**, *Phys. Rev. B* **81**, 125332 (2010), 9 pages.
- [20] *Spin Angular Impulse due to Spin-Dependent Reflection Off a Barrier*  
V. Teodorescu and **R. Winkler**, *Phys. Rev. B* **80**, 041311(R) (2009), 4 pages.
- [21] *External Gates and Transport in Biased Bilayer Graphene*  
D. Culcer and **R. Winkler**, *Phys. Rev. B* **79**, 165422 (2009), 6 pages.

- [22] *Current-Induced Spin Torques in III-V Ferromagnetic Semiconductors*  
D. Culcer, M. E. Lucassen, R. A. Duine, and **R. Winkler**, *Phys. Rev. B* **79**, 155208 (2009), 9 pages.
- [23] *Weak Momentum Scattering and the Conductivity of Graphene*  
D. Culcer and **R. Winkler**, *Phys. Rev. B* **78**, 235417 (2008), 10 pages.
- [24] *Strain-Induced Fermi Contour Anisotropy of GaAs 2D Holes*  
J. Shabani, M. Shayegan, and **R. Winkler**, *Phys. Rev. Lett.* **100**, 096803 (2008), 4 pages.
- [25] *Nanospintronics Meets Relativistic Quantum Physics: Ubiquity of Zitterbewegung Effects*  
U. Zülicke, **R. Winkler**, and J. Bolte, *Physica E* **40**, 1434 (2008), 2 pages.
- [26] *Generation of Spin Currents and Spin Densities in Systems With Reduced Symmetry*  
D. Culcer and **R. Winkler**, *Phys. Rev. Lett.* **99**, 226601 (2007), 4 pages.
- [27] *Steady States of Spin Distributions in the Presence of Spin-Orbit Interactions*  
D. Culcer and **R. Winkler**, *Phys. Rev. B* **76**, 245322 (2007), 10 pages.
- [28] *Spin Polarization Decay in Spin-1/2 and Spin-3/2 Systems*  
D. Culcer and **R. Winkler**, *Phys. Rev. B* **76**, 195204 (2007), 6 pages.
- [29] *Anisotropic Low-Temperature Piezoresistance in (311)A GaAs Two-Dimensional Holes*  
B. Habib, J. Shabani, E. P. De Poortere, M. Shayegan and **R. Winkler**, *Appl. Phys. Lett.* **91**, 12107 (2007), 3 pages.
- [30] *Oscillatory Multiband Dynamics of Free Particles: Ubiquity of Zitterbewegung Effects*  
**R. Winkler**, U. Zülicke, and J. Bolte, *Phys. Rev. B* **75**, 205314 (2007), 10 pages.
- [31] *Tuning of the Spin-Orbit Interaction in Two-Dimensional GaAs Holes via Strain*  
B. Habib, J. Shabani, E. P. De Poortere, M. Shayegan, and **R. Winkler**, *Phys. Rev. B* **75**, 153304 (2007), 4 pages.
- [32] *Transport Evidence of the Lowest Landau-Level Spin-Index Anticrossing in (110) GaAs Two-Dimensional Holes*  
F. Fischer, **R. Winkler**, D. Schuh, M. Bichler, and M. Grayson, *Phys. Rev. B* **75**, 073303 (2007), 4 pages.
- [33] *Spin Precession and Alternating Spin Polarization in Spin-3/2 Hole Systems*  
D. Culcer, C. Lechner, and **R. Winkler**, *Phys. Rev. Lett.* **97**, 106601 (2006), 4 pages.
- [34] *Giant Anisotropy of Zeeman Splitting of Quantum Confined Acceptors in Si/Ge*  
K.-M. Haendel, **R. Winkler**, U. Denker, O. G. Schmidt, and R. J. Haug, *Phys. Rev. Lett.* **96**, 086403 (2006), 4 pages.
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J. Königmann, **R. Winkler**, D. K. Maude, and R. J. Haug, *Phys. Status Solidi B* **243**, 3678 (2006), 4 pages.

- [36] *Spin Polarization of Quasi Two-Dimensional Hole Systems*  
**R. Winkler**, *Phys. Rev. B* **71**, 113307 (2005), 4 pages.
- [37] *Anomalous Spin Polarization of GaAs Two-Dimensional Hole Systems*  
**R. Winkler**, E. Tutuc, S. J. Papadakis, S. Melinte, M. Shayegan, D. Wasserman, and S. A. Lyon, *Phys. Rev. B* **72**, 195321 (2005), 6 pages.
- [38] *Optical Orientation of Electron Spins in GaAs Quantum Wells*  
S. Pfalz, **R. Winkler**, T. Nowitzki, D. Reuter, A. D. Wieck, D. Hägele, and M. Oestreich, *Phys. Rev. B* **71**, 165305 (2005), 11 pages.
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M. Oestreich, J. Rudolph, **R. Winkler**, and D. Hägele, *Superlatt. Microstruct.* **37**, 306 (2005), 7 pages.
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**R. Winkler**, *Phys. Rev. B* **70**, 125301 (2004), 8 pages.
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B. Habib, E. Tutuc, S. Melinte, M. Shayegan, D. Wasserman, S. A. Lyon, and **R. Winkler**, *Phys. Rev. B* **69**, 113311 (2004), 4 pages.
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B. Habib, E. Tutuc, S. Melinte, M. Shayegan, D. Wasserman, S. A. Lyon, and **R. Winkler**, *Appl. Phys. Lett.* **85**, 3151 (2004), 3 pages.
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- [45] *Role of Finite Layer Thickness in Spin Polarization of GaAs Two-Dimensional Electrons in Strong Parallel Magnetic Fields*  
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M. Zitzlsperger, R. Onderka, M. Suhrke, U. Rössler, D. Weiss, W. Wegscheider, M. Bichler, **R. Winkler**, Y. Hirayama, and K. Muraki, *Europhys. Lett.* **61**, 382 (2003), 7 pages.
- [48] *Anomalous Magneto-Oscillations and Spin Precession*  
S. Keppeler and **R. Winkler**, *Phys. Rev. Lett.* **88**, 046401 (2002), 4 pages.

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S. J. Papadakis, E. P. De Poortere, M. Shayegan, and **R. Winkler**, *Phys. Rev. Lett.* **84**, 5592 (2000), 4 pages.
- [54] *Generalization of  $\mathbf{k} \cdot \mathbf{p}$  Theory for Periodic Perturbations*  
R. Stubner, **R. Winkler**, and O. Pankratov, *Phys. Rev. B* **62**, 1843 (2000), 8 pages.
- [55] *The Effect of Spin-Splitting on the Metallic Behavior of a Two-Dimensional System*  
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T. Kippenberg, J. Krauss, J. Spieler, P. Kiesel, G. H. Döhler, R. Stubner, **R. Winkler**, O. Pankratov, and M. Moser, *Phys. Rev. B* **60**, 4446 (1999), 4 pages.
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J. P. Lu, M. Shayegan, L. Wissinger, U. Rössler, and **R. Winkler**, *Phys. Rev. B* **60**, 13776 (1999), 4 pages.
- [58] *Tunable Spin-Splitting and Spin-Resolved Ballistic Transport in GaAs/AlGaAs Two-Dimensional Holes*  
J. P. Lu, J. B. Yau, S. P. Shukla, M. Shayegan, L. Wissinger, U. Rössler, and **R. Winkler**, *Phys. Rev. Lett.* **81**, 1282 (1998), 4 pages.
- [59] *Spin Splitting in the Electron Subband of Asymmetric GaAs/Al<sub>x</sub>Ga<sub>1-x</sub>As Quantum Wells: The Multiband Envelope Function Approach*  
L. Wissinger, U. Rössler, **R. Winkler**, B. Jusserand, and D. Richards, *Phys. Rev. B* **58**, 15375 (1998), 3 pages.
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M. Schultz, U. Merkt, A. Sonntag, U. Rössler, **R. Winkler**, T. Colin, P. Helgesen, T. Skauli, and S. Lovold, *Phys. Rev. B* **57**, 14772 (1998), 4 pages.
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- [62] *Theory for the Cyclotron Resonance of Holes in Strained Asymmetric Ge-SiGe Quantum Wells*  
**R. Winkler**, M. Merkler, T. Darnhofer, and U. Rössler, *Phys. Rev. B* **53**, 10858 (1996), 8 pages.
- [63] *Anisotropic Hole Subband States and Interband Optical Absorption in [mmn] Oriented Quantum Wells*  
**R. Winkler** and A. I. Nesvizhskii, *Phys. Rev. B* **53**, 9984 (1996), 9 pages.
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F. C. Michl, **R. Winkler**, and U. Rössler, *Solid State Commun.* **99**, 13 (1996), 6 pages.
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**R. Winkler**, *Surf. Sci.* **361/362**, 411 (1996), 4 pages.
- [67] *Excitons and Fundamental Absorption in Quantum Wells*  
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- [68] *Multicomponent Envelope Function Problems: The Ultimate Concept*  
**R. Winkler** and U. Rössler, *Surf. Sci.* **305**, 295 (1994), 6 pages.
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**R. Winkler** and U. Rössler, *Phys. Rev. B* **48**, 8918 (1993), 10 pages.
- [70] *A Note on Analytic Quadratic Brillouin Zone Integration*  
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- [71] *Tunneling Spectroscopy of a 2DEG in InAs: Experiment and Theory*  
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## Submitted Articles

- [72] *Robust Level Coincidences in the Subband Structure of Quasi 2D Systems*  
**R. Winkler**, L. Y. Wang, Y. H. Lin, C. S. Chu, [arXiv:1011.4504](https://arxiv.org/abs/1011.4504) (2010), 4 pages.

## Other Publications

- [73] *The Absence Of The Rashba Spin-Splitting In Undoped Asymmetric Quantum Wells*  
P. S. Eldridge, W. J. H. Leyland, J. D. Mar, P. G. Lagoudakis, **R. Winkler**, O. Z. Karimov, M. Henini, D. Taylor, R. T. Phillips, and R. T. Harley *AIP Conf. Proc.* **1199**, 397 (2010), 2 pages.

- [74] *Zeeman Splitting of Zero-Dimensional Heavy-Hole States in a Strongly Strained Ge Quantum Well*  
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- [76] *Anisotropic Spin Splitting and Spin Relaxation in AlGaAs/GaAs Quantum Structures*  
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- [81] *Spin-Splitting in GaAs Two-Dimensional Holes*  
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- [82] *Zeeman Effect of  $D_1$  Bound Exciton in 4H-SiC*  
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- [86] *Nonlinear Response of Solids and Molecules in Intense Infrared Radiation*  
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- [91] *Quantum Resonances of Holes in Strained  $\text{Ge-Si}_x\text{Ge}_{1-x}$  Quantum Wells*  
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**R. Winkler**, U. Kunze, and U. Rössler, *Wiss. Ber. HMFA Braunschweig* **11**, 45 (1989/90), 7 pages.