

Book:

D. Vollhardt and P. Wölfle,
The Superfluid Phases of Helium 3
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Articles in scientific journals and books:

1. P. Wölfle
Microscopic Derivation of Landau's Transport Theory of Fermi Liquids
Z. Physik **232**, 38 (1970).
2. W. Brenig, W. Götze, and P. Wölfle
Kondo Anomaly of Impurity Spin Resonance Linewidth
Phys. Lett. **30A**, 448 (1969).
3. W. Brenig, J.A. Gonzalez, W. Götze, and P. Wölfle
On the Static Susceptibility in the Kondo Problem
Z. Physik **235**, 52 (1970).
4. W. Brenig, W. Götze, and P. Wölfle
Kondo Anomaly of Impurity Spin Resonance Linewidth
Z. Physik **235**, 59 (1970).
5. W. Brenig, W. Götze, and P. Wölfle,
Spin Relaxation and Transport in Local Moment Systems
Phys. Rev. **B2**, 4533 (1970).
6. P. Wölfle
Effect of Spin Diffusion on the Spin Resonance in Local Moment Systems
Z. Physik **242**, 262 (1971).
7. W. Brenig, G. Döhler, and P. Wölfle
Kinetic Theory of Hopping Conductivity in Amorphous Solids
Phys. Lett. **35A**, 77 (1971).
8. W. Brenig, G. Döhler, and P. Wölfle
Theory of Thermally Assisted Electron Hopping in Amorphous Solids
Z. Physik **246**, 1 (1971).
9. W. Götze and P. Wölfle
Dynamical Impurity Spin Susceptibility in Metals
J. Low Temp. Phys. **5**, 575 (1971).
10. W. Götze and P. Wölfle
Homogeneous Dynamical Susceptibilities of Dilute Magnetic Alloys
J. Low Temp. Phys. **6**, 455 (1972).

11. W. Götze and P. Wölfle
Retardation Effects in the Longitudinal Spin Relaxation in Metals
Phys. Lett. **40A**, 249 (1972).
12. W. Brenig, G. Döhler, and P. Wölfle
Thermally Assisted Hopping transport in Disordered Systems
Z. Physik **258**, 381 (1973).
13. W. Götze and P. Wölfle
Homogenous Dynamical Conductivity of Simple Metals
Phys. Rev. **B 6**, 1226 (1972).
14. P. Wölfle
Attenuation of Zero Sound in Liquid ^3He : A Probe of Superfluid Pairing
Phys. Rev. Lett. **30**, 1169 (1973).
15. P. Wölfle
Soundlike Collective Excitations in Superfluid ^3He
Phys. Rev. Lett. **31**, 1437 (1973).
16. P. Wölfle
On the Ginzburg-Landau Expansion of the Free Energy of a Spatially Inhomogeneous Anisotropic BCS-Superfluid
Phys. Lett. **47A**, 224 (1974).
17. P. Wölfle
Mössbauer Spectroscopy: A Probe of Local Spin Relaxation in Metals
Arch. Sc. Geneve **27**, 357 (1974).
18. P. Wölfle
Theory of Sound Absorption in the Superfluid Phases of ^3He , in:
Quantum Statistics and the Many-Body Problem
Ed. by S.B. Trickey, W.P. Kirk and J.W. Dufty (Plenum, N.Y. 1975).
19. P. Wölfle
Theory of Sound Propagation in B- ^3He
Phys. Rev. Lett. **34**, 1377 (1975).
20. P. Wölfle
Kinetic Theory of Anisotropic Fermi Superfluids
J. Low Temp. Phys. **22**, 157 (1976).
21. P. Wölfle
Zur Theorie der kollektiven Bewegungen in Quantenflüssigkeiten
In Jahrbuch 1975 der Göttinger Akademie der Wissenschaften.
22. P. Wölfle
Theory of Sound Propagation in Pair correlated Fermi Liquids. Application to $^3\text{He-B}$.
Phys. Rev. **B 14**, 89 (1976).

23. P. Wölfle
Order Parameter Collective Modes in $^3\text{He-A}$
Phys. Rev. Lett. **37**, 1279 (1976).
24. P. Wölfle
Viscosity and the Attenuation of Fourth and Second Sound in Superfluid ^3He near the Transition Temperature
J. Low Temp. Phys. **26**, 659 (1977).
25. P. Wölfle
Collisionless Collective modes in Superfluid ^3He
Physica **90B**, 96 (1977).
26. V.E. Koch and P. Wölfle
Theory of Sound Propagation in Superfluid $^3\text{He-A}$
J. Low Temp. Phys. **30**, 61 (1978).
27. P. Wölfle
Sound Propagation and Kinetic Coefficients in Superfluid ^3He
In: **Progress in Low Temperature Physics**
Vol. 7, ed. D.F. Brewer (North Holland, Amsterdam 1978).
28. P. Wölfle
Collective Modes and Transport Properties of Superfluid ^3He
In: **Physics at Ultralow Temperatures**
Ed. T. Sugawara (Physical Society of Japan, Tokyo, 1978).
29. D. Einzel and P. Wölfle
Transport and Relaxation Properties of Superfluid ^3He : Kinetic Equation and Bogoliubov Quasiparticle Relaxation Rate
J. Low Temp Phys. **32**, 19 (1978).
30. P. Wölfle and D. Einzel
Transport and Relaxation Properties of Superfluid ^3He : II. Viscosity, Thermal Conductivity and Relaxation of the Normal Fluid Density
J. Low Temp. Phys. **32**, 39 (1978).
31. P. Wölfle
Low Temperature Properties of Liquid ^3He
Rep. Progr. Phys. **42**, 269 (1979).
32. P. Wölfle
Ultrasonic Properties of the A- and B-Phases of ^3He
J. de Physique, **C6**, 1278 (1978).
33. D. Einzel and P. Wölfle
Transport Coefficients of Superfluid $^3\text{He-B}$
J. de Physique **C6**, 1 (1978).

34. W. Götze, P. Prelovsek, and P. Wölfle
Localization of Particles in a Two-Dimensional Random Potential
Sol. St. Comm. **29**, 369 (1979).
35. P. Wölfle, W. Götze, J. Kurkijärvi, and H. Smith
The Mobility of a Heavy Impurity in a Degenerate Fermi System
J. Phys. C **13**, 2461 (1980).
36. P. Wölfle
Theory of Ion Mobility in Superfluid ^3He
In: **The Theory of Condensed Matter**
Ed. A. Pekalski and J. Przystawa (Springer, Berlin 1980).
37. G. Eska, K. Neumaier, W. Schoepe, K. Uhlig, W. Wiedemann, and P. Wölfle
First Sound Attenuation and Viscosity of Superfluid $^3\text{He-B}$
Phys. Rev. Lett. **44**, 1337 (1980).
38. H.H. Jensen, H. Smith, P. Wölfle, K. Nagai, and T. Maak Bisgaard
Boundary Effects in Fluid Flow. Application to Quantum Liquids
J. Low Temp. Phys. **41**, 473 (1980).
39. K. Nagai and P. Wölfle
Surface Effects on the Propagation of Sound in Fermi Liquids
J. Low Temp. Phys. **42**, 227 (1980).
40. D. Vollhardt and P. Wölfle
Anderson Localization in $d \leq 2$ Dimensions: A Self-Consistent Diagrammatic Theory
Phys. Rev. Lett. **45**, 842 (1980).
41. D. Vollhardt and P. Wölfle
A Diagrammatic Self-Consistent Treatment of the Anderson Localization Problem in $d \leq 2$ Dimensions.
Phys. Rev. B **22**, 4666 (1980).
42. V.E. Koch and P. Wölfle
Coupling of New Order-Parameter Collective modes to Sound Waves in Superfluid ^3He
Phys. Rev. Lett. **46**, 486 (1981).
43. D. Vollhardt and P. Wölfle
Nuclear Spin Relaxation Time of Normal ^3He
Physics **108B**, 1055 (1981).
44. D. Vollhardt and P. Wölfle
Theory of Spin Relaxation by Magnetic Dipole Interaction in a Fermi Liquid: Application to ^3He
Phys. Rev. Lett. **47**, 190 (1981).
45. D. Vollhardt and P. Wölfle

- Scaling Equations from a Self-Consistent Theory of Anderson Localization*
Phys. Rev. Lett. **48**, 699 (1982).
46. P. Wölfle and D. Vollhardt
Self-Consistent Diagrammatic Theory of Anderson Localization
In: **Anderson Localization**
Eds. Y. Nagaoka and H. Fukuyama, Springer Series in Solid State Sciences, Vol. 39,
Springer Verlag (Berlin/Heidelberg 1982).
47. M. Pfitzner and P. Wölfle
Quasiparticle Scattering Amplitude for Normal Liquid ^3He
J. Low Temp. Phys. **51**, 535 (1983).
48. H. H. Jensen, H. Smith, and P. Wölfle
Boundary Effects on Sound Propagation in Superfluids
J. Low Temp. Phys. **51**, 81 (1983).
49. M. Pfitzner and P. Wölfle
Quasiparticle Scattering Amplitude for Normal Liquid ^3He
In: **Quantum Fluids and Solids – 1983**,
Eds. E.D. Adams and G.G. Ihas
AIP Conference Proceedings Nr. **103** (American Institute of Physics, 1983).
50. D. Einzel, H. H. Jensen, H. Smith, and P. Wölfle
Surface Impedance and Slip Length of Superfluid Fermi Liquids Exact Results
J. Low Temp. Phys. **53**, 695 (1983).
51. P. Wölfle and R.N. Bhatt
Electron Localization in Anisotropic Systems
Phys. Rev. B **30**, 3542 (1984).
52. I.A. Fomin, G. Eska, and P. Wölfle
Asymptotic Approach to a Theory of Multiple Spin Echoes in the Low Temperature Phases of ^3He
J. Low Temp. Phys. **56**, 315 (1984).
53. D. Einzel, P. Wölfle, H. Hojgaard Jensen, and H. Smith
Quantum Slip Effect on the Viscosity of Superfluid $^3\text{He-B}$
Phys. Rev. Lett. **52**, 1705 (1984).
54. D. Einzel, G. Eska, Y. Hirayoshi, T. Kopp, and P. Wölfle
Multiple Spin Echoes in a Normal Fermi Liquid
Phys. Rev. Lett. **53**, 2312 (1984).
55. M. Pfitzner and P. Wölfle
Microscopic calculation of the Landau Interaction Function for Liquid ^3He
In: **Proceedings of the 17th International Conference on Low Temperature Physics**
Eds. U. Eckern, A. Schmid, W. Weber, W. Wühl (Elsevier Science Publishers, 1984), p. 1253-1254.

56. D. Einzel and P. Wölfle
Nonanalytic Structure of the Sound Dispersion in $^3\text{He-A}$ near the Pair Breaking Threshold
In: **Proceedings of the 17th International Conference on Low Temperature Physics**,
Eds. U. Eckern, A. Schmid, W. Weber, W. Wühl (Elsevier Science Publishers, 1984), p. 773-774.
57. R.N. Bhatt, P. Wölfle, and T.V. Ramakrishnan
Effect of Anisotropy on Weak Localization
In: **Proceedings of the 17th International Conference on Low Temperature Physics**
Eds. U. Eckern, A. Schmid, W. Weber, W. Wühl (Elsevier Science Publishers, 1984), p. 887-888.
58. M. W. Meisel, B.S. Shivaram, B.K. Sarma, J.B. Ketterson, W.P. Halperin, and P. Wölfle
Explanation of the excess attenuation near the pair breaking edge in $^3\text{He-B}$
In: **Proceedings of the 17th International Conference on Low Temperature Physics**
Eds. U. Eckern, A. Schmid, W. Weber, W. Wühl (Elsevier Science Publishers, 1984), p. 757-758.
59. R.N. Bhatt, P. Wölfle, and T.C. Ramakrishnan
Localization and Interaction Effects in Anisotropic Disordered Electronic Systems
Phys. Rev. B **32**, 569 (1985).
60. P. Wölfle
The Quantum Liquids ^3He and ^4He
In **Festkörperprobleme XXV**, (Vieweg, 1985), p. 106-119.
61. W. Brenig, M. Chang, E. Abrahams, and P. Wölfle
Inelastic Scattering time above the Superconductivity Transition in Two-Dimensions: Dependence on Disorder and Magnetic Field
Phys. Rev. B **31**, 7001 (1985).
62. W. Brenig, M.A. Paalanen, A.F. Hebard, and P. Wölfle
Magnetoconductance of Thin-Film, Superconductors Near Critical Disorder
Phys. Rev. B **33**, 1691 (1986).
63. W. Wojtanowski and P. Wölfle
Wave Pairing Fluctuations in $^3\text{He-A}$
Phys. Rev. Lett. **56**, 488 (1986).
64. M. Pfitzner and P. Wölfle
Quasiparticle Interactions in a Nearly Localized Fermi Liquid. Applications to ^3He and Heavy Fermion Systems
Phys. Rev. B **33**, 2003 (1986).

65. P. Wölfle
Collective Modes in Superfluid ^3He in **1986 McGraw-Hill Yearbook of Science and Technology**, p. 411-418.
66. W. Wojtanowski and P. Wölfle
Admixture of Higher angular Momentum Components to the Equilibrium Order Parameter of Superfluid ^3He
Phys. Lett. A **115**, 49 (1986).
67. P. Hirschfeld, D. Vollhardt, and P. Wölfle
Resonant Impurity Scattering in Heavy Fermion Superconductors
Solid State Commun. **59**, 111 (1986).
68. M. Pfitzner and P. Wölfle
Quasiparticle Interaction in the Fermi Liquid ^3He
Phys. Rev. **B 35**, 4699 (1987).
69. D. Vollhardt, P. Wölfle, and P.W. Anderson
A Gutzwiller-Hubbard Lattice Gas Model with Variable Density: Application to Normal Liquid ^3He
Phys. Rev. **B 35**, 6703 (1987).
70. P. Wölfle
Observability of Order Parameter Collective Modes in Heavy Fermion Systems
Phys. Lett. A **119**, 40 (1986).
71. D. Einzel, P.J. Hirschfeld, and P. Wölfle
Comment on f-Wave Effects in Superfluid $^3\text{He-A}$
Phys. Rev. Lett. **58**, 1383©, (1987).
72. D. Einzel, P.J. Hirschfeld, and P. Wölfle
Transverse Surface Impedance of normal and Superfluid ^3He
Jap. J. Appl. Phys. Suppl. **26-3**, 129 (1987).
73. P. Kumar and P. Wölfle
Two-Component Order-Parameter Model for Pure and Thorium-Doped Superconducting UBe_{13}
Phys. Rev. Lett. **59**, 1954 (1987).
74. T. Kopp and P. Wölfle
Nonlinear Wave propagation in Fermi Liquids with Resonant Excitations across an Energy Gap. Application to Superfluid ^3He .
Phys. Rev. Lett. **59**, 29 (1987).
75. P.J. Hirschfeld, P. Wölfle, and D. Einzel
Consequences of Resonant Impurity Scattering in Anisotropic Superconductors I. Thermal and Spin Relaxation Properties.
Phys. Rev. **B 37**, 83 (1988).

76. S. Küchenhoff and P. Wölfle
Superconductivity in the Dilute Electron Gas
Phys. Rev. **B 38**, 935 (1988).
77. B. Andraka, M.W. Meisel, J.S. Kim, P. Wölfle, G.R. Stewart, C.L. Snead, A.I. Giorgi,
and M.S. Wire
Neutron irradiation of Heavy Fermion Superconductors
Phys. Rev. **B 38**, 6402 (1988).
78. P. Wölfle
Unconventional Superconductivity in Heavy Fermion Compounds
J. Mag. Mag. Mat. **76 & 77**, 492 (1988).
79. T. Kopp, F.J. Seco, S. Schiller, and P. Wölfle
*Superconductivity in the Single-Band Hubbard Model: Mean-Field Treatment of
Slave-Boson Pairing.*
Phys. Rev. **B 38**, 1183 (1988).
80. P.J. Hirschfeld, P. Wölfle, J.A. Sauls, D. Einzel, and W.O. Putikka
Electromagnetic Absorption in Anisotropic Superconductors
Phys. Rev. **B 40**, 6695 (1989).
81. Y. Sun, P. Wölfle and S.K. Yip
Kapitza Resistance and Thermal Transport across Boundaries in Superfluid ^3He
Phys. Rev. Lett. **63**, 1613 (1989).
82. T. Li, P. Wölfle and P.J. Hirschfeld
Spin-Rotation-Invariant Slave-Boson Approach to the Hubbard Model
Phys. Rev. **B 40**, 6817 (1989).
83. P. Wölfle
Spin-Carrying Slave Boson Representation for Strongly Correlated Fermion Systems
Int.. J. Mod. Phys. **B 3**, 1833 (1989).
84. J. Kroha, T. Kopp, and P. Wölfle
*Self-Consistent Theory of Anderson Localization for the Tight-Binding Model with
Site-Diagonal Disorder*
Phys. Rev. **B 41**, 888 (1990).
85. P. Wölfle and T. Li
Spin Fluctuation Contribution to the Specific Heat of Strongly Correlated Fermions
Z. Phys. **B 78**, 45 (1990).
86. W. O. Putikka, P.J. Hirschfeld, and P. Wölfle
*Unusual Low-Frequency Electromagnetic Response in Anisotropic Superconductors:
Application to UPt_3*
Phys. Rev. **B 41**, 7285 (1990).
87. P. Wölfle

- The Anderson Lattice*
Helvetica Physica Acta, **63**, 284 (1990).
88. D. Einzel, P. Wölfle, and P.J. Hirschfeld
Transverse Surface Impedance of Pair-correlated Fermi Liquids. Application to Normal and Superfluid ^3He
J. Low Temp. Phys. **80**, 31 (1990).
89. Y. Sun, P. Wölfle, S.K. Yip, and M.C. Cross
Boundary Conditions for Normal-Superfluid Counterflow and Internal Kapitza Resistance in Superfluids
J. Low Temp. Phys. **80**, 237 (1990).
90. W. Putikka, P.J. Hirschfeld, and P. Wölfle
Electromagnetic Response in the E_{1g} Model State for the Heavy Fermion Superconductor UPt_3
Physica B **165 & 166**, 371 (1990).
91. D. Vollhardt and P. Wölfle
Self-Consistent Theory of Anderson Localization
in **Electronic Phase Transitions**, ed. W. Hanke and Ya. V. Kopayev (North-Holland, Amsterdam, 1992).
92. A. Langenfeld and P. Wölfle
Absence of Quantum Corrections to the Anomalous Hall Conductivity
Phys. Rev. Lett. **67**, 739 (1991).
93. T. Li, Y.S. Sun, and P. Wölfle
Dynamic Response Functions of Hubbard Model in Gutzwiller Approximation
Z. Phys. B **82**, 369 (1991).
94. R. Fresard, M. Dzierzawa, and P. Wölfle
Slave Boson Approach to Spiral Magnetic Order in the Hubbard Model
Europhysics Lett. **15**, 325 (1991).
95. J. Kroha, P.J. Hirschfeld, K.A. Muttalib, and P. Wölfle
Conserving Slave Boson Approach to Strongly Correlated Fermi Systems: Single-impurity Anderson Model
Solid State Comm. **83**, 1003 (1992).
96. R. Fresard and P. Wölfle
Spiral Magnetic States in the Large U Hubbard Model. A Slave Boson Approach
J. Phys. Condens. Matter **4**, 3625 (1992).
97. I.A. Fomin, P. Schmitteckert, and P. Wölfle
Comment on: *Pseudospin Symmetry and New Collective Modes of the Hubbard Model*
Phys. Rev. Lett. **69**, 214 (1992).
98. R. Fresard and P. Wölfle
Unified Slave boson Representation of Spin and Charge Degrees of Freedom for Strongly Correlated Fermi systems

- Int. J. Mod. Phys. **B 6**, 237 (1992); Erratum *ibid.* **6**, 3087 (1992).
99. P.J. Hirschfeld, W.O. Putikka, P. Wölfle and Y. Campbell
Electromagnetic Skin Depth of Unconventional Superconductors
J. Low Temp. Phys. **88**, 395 (1992).
100. P. J. Hirschfeld, W.O. Putikka, and P. Wölfle
Electromagnetic Power Absorption by Collective Modes in Unconventional Superconductors
Phys. Rev. Lett. **69**, 1447 (1992).
101. R. Fresard, B. Glaser, and P. Wölfle
Self-Consistent T-Matrix Approximation to the Negative-U Hubbard Model; Numerical Results
J. Phys. Condens. Matter **4**, 8565 (1992).
102. R. Fresard, and P. Wölfle
Slave Boson Approach to Magnetic Order in the Hubbard Model
Helv. Phys. Acta **65**, 423 (1992).
103. J. Kroha, C. Soukoulis, and P. Wölfle
Localization of Classical Waves in a Random Medium: A Self-consistent Theory
Phys. Rev. **B 47**, 11093 (1993).
104. K. Doll, M. Dzierzawa, R. Fresard, and P. Wölfle
Instability of the Paramagnetic State towards Incommensurate Magnetic Order in the 2-d Hubbard Model
Z. Phys. **B 90**, 297 (1993).
105. J. Kroha, C.M. Soukoulis, and P. Wölfle
Diffusion of Classical Waves in Random Media, Photonic Band Gaps and Localization, edited by C.M. Soukoulis, Plenum Press, New York, **1993**.
106. B. Möller, and P. Wölfle
Magnetic Order in the Periodic Anderson Model
Phys. Rev. **B 48**, 10320 (1993).
107. A.G. Aronov, and P. Wölfle
Weak Localization of Charged Quantum Particles in a Disordered System Subject to a Strongly Fluctuating Magnetic Field
Phys. Rev. Lett. **72**, 2239 (1994).
108. A.G. Aronov, A.D. Mirlin, and P. Wölfle
Localization of Charged Quantum Particles in a Static Random Magnetic Field
Phys. Rev. **B 49**, 16609 (1994).
109. P. Wölfle
Collective Modes in Unconventional Superconductors
Journal of Low Temp. Physics. **95**, 191 (1994).

110. A.G. Aronov, and P. Wölfle
Effect of a Fluctuating Magnetic Field on Quantum Transport in a Two-Dimensional Disordered System
Phys. Rev. **B. 50**, 16574 (1994).
111. M. Lakner, H.v. Löhneysen, A. Langenfeld, and P. Wölfle
Localized Magnetic Moments in Si:P at the Metal-Insulator Transition
Phys. Rev. **B. 50**, 17064 (1994).
112. J. Münzel, K. Widder, H.P. Geserich, P. Wölfle, W. Widder, H. Braun, and Th. Wolf,
C-Axis Reflectance and the Superconducting Order Parameter of $ZB_{a2}Cu_{307-\delta}$
Physica **C 235-240**, 1087 (1994).
113. T.A. Costi, P. Schmitteckert, J. Kroha, and P. Wölfle
Numerical Renormalization Group Study of Pseudo-Fermion and Slave-boson Spectral Functions in the Single Impurity Anderson model
Phys. Rev. Lett. **73**, 1275 (1994).
114. T.A. Costi, P. Schmitteckert, J. Kroha, and P. Wölfle
Infrared Divergences in the Kondo Problem
Physica **C 235-240**, 2287-8 (1994).
115. A.G. Aronov, E. Altshuler, A.D. Mirlin, and P. Wölfle
Single Particle Relaxation in a Random Magnetic Field
Europhys. Letts. **29**, 239 (1995).
116. P. Wölfle
Slave Boson Theories of Correlated Electron Systems
J. Low Temp. Phys. **99**, 625 (1995).
117. A. Langenfeld, and P. Wölfle
Disorder-Induced Local Magnetic Moments in Weakly Correlated Metallic Systems
Ann. Phys. **4**, 43 (199).
118. A. G. Aronov, E. Altshuler, A.D. Mirlin, and P. Wölfle
Theory of Shubnikov-de Haas Oscillations around the $\nu = 1/2$ filling Factor of the Landau level: Effect of Gauge-field fluctuations.
Phys. Rev. **B 52**, 4708 (1995).
119. A.G. Aronov, A.D. Mirlin, P. Wölfle, and E. Altshuler
Quantum Particle in a Random Magnetic Field, in: **Quantum Dynamics of Submicron Structure**, ed., by H.A. Cedeira, B. Kramer and G. Schön, (Kluwer Academic Publishers, **1995**), pp. 3-19.
120. T.A. Costi, J. Kroha, and P. Wölfle
Spectral Properties of the Anderson Impurity Model: Comparison of Numerical-Renormalization-Group and Noncrossing-Approximation Results
Phys. Rev. **B 53**, 1850 (1996).

121. A.D. Mirlin, E. Altshuler, and P. Wölfle
Quasiclassical Approach to Impurity Effect on Magnetooscillation in 2D Metals
Ann. Physik **4**, 281 (1996).
122. J. Kroha, P. Wölfle, T.A. Costi, P.J. Hirschfeld, and K.A. Muttalib
Conserving Slave Boson Approximations for the Anderson model Beyond NCA
Czechoslovak Journal of Physics, **Vol. 46** (S4), (1996).
123. Y. Lee, H. H. Hensely, J.A. Thompson, K. Murata, B.M. Hoffman, T.M. Haard, P.J. Hamot, W.P. Halperin, and P. Wölfle
Dimensionality Crossover in the Transport Behavior of the Quasi-One-Dimensional Conductor H_2 (phthalocyanine) I
Europhys. Lett. **36**, 681 (1996).
124. D. Vollhardt und P. Wölfle,
Suprafluides Helium 3 - ein Testfeld für grundlegende Konzepte der modernen Physik
Phys. Bl. 52, 1213 (1996)
125. A. Neubert, T. Pietrus, O. Stockert, H. v. Löhneysen, A. Rosch, and P. Wölfle
Electrical resistivity of the Non-Fermi-Liquid Alloy $CeCu_{5.9}Au_{0.1}$
Physica **B**, **230-232**, 587 (1997).
126. A.D. Mirlin, and P. Wölfle
Quantum corrections to the Conductivity of Fermion-Gauge-Field models: Applications to Half-Filled Landau Level.
Phys. Rev. **B 55**, 5141 (1997).
127. W. Zimmermann, R. Fresard, and P. Wölfle
Spin and Charge Structure Factor of the 2-d Hubbard Model
Phys. Rev. **B. 56**, 10097 (1997).
128. E. Scheer, H. v. Löhneysen, A. Mirlin, P. Wölfle, and H. Hein
Angular Dependence of Universal Conductance Fluctuations in Noble-Metal Nanowires
Phys. Rev. Lett. **78**, 33612 (1997).
129. J. Kroha, P. Wölfle and T.A. Costi
Unified Description of Fermi and Non-Fermi Liquid Behavior in a Conserving Slave Boson Approximation for Strongly Correlated Impurity Models.
Phys. Rev. Lett. **79**, 261 (1997).
130. A. D. Mirlin, and P. Wölfle
Composite Fermions in the Fractional Quantum Hall Effect: Transport at Finite Wave Vector
Phys. Rev. Lett. **78**, 3717 (1997).
131. C. Mauz, A. Rosch, and P. Wölfle
Dimensional Crossover of Weak Localization in a Magnetic Field
Phys. Rev. **B 56**, 10953 (1997).

132. W. Zimmermann, R. Fresard, and P. Wölfle
Upper Hubbard Band of the 2-D Hubbard Model.
Helv. Phys. Acta **70**, 21 (1997).
133. A.D. Mirlin, D.G. Polyakov, and P. Wölfle
Composite Fermions in a Long-Range Random Magnetic Field: Quantum Hall Effect versus Shubnikov-de Haas Oscillations.
Phys. Rev. Lett. **80**, 2429 (1998).
134. Y. Levinson, O. Entin-Wohlman, A.D. Mirlin, and P. Wölfle
Weiss Oscillations in Surface Acoustic Wave Propagation
Phys. Rev. **B 58**, 7113 (1998).
135. A.D. Mirlin, P. Wölfle, Y. Levinson, and O. Entin-Wohlman
Velocity Shift of Surface Acoustic Waves due to Interaction with Composite Fermions in a Modulated Structure
Phys. Rev. Lett. **81**, 1070 (1998).
136. A.D. Mirlin, and P. Wölfle
Theory of Weiss Oscillations in the Presence of Small-Angle Impurity Scattering
Phys. Rev. **B 58**, 12986 (1998).
137. F. Evers, A.D. Mirlin, D.G. Polyakov, and P. Wölfle
Nonadiabatic Scattering of a Classical Particle in an Inhomogeneous Magnetic Field
Phys. Rev. **B 58**, 15321 (1998).
138. D.G. Polyakov, F. Evers, A.D. Mirlin, and P. Wölfle
Kinetics and Localization of Composite fermions in a Random Magnetic Field
In: **Proceedings of the 13th International Conference on High Magnetic Fields in Semiconductor Physics**, Physica **B 256-258**, 441 (1998).
139. H. v. Löhneysen, A. Neubert, T. Pietrus, A. Schröder, O. Stockert, U. Tutsch, M. Loewenhaupt, A. Rosch, and P. Wölfle
Magnetic Order and Transport in the Heavy-Fermion System $CeCu_{(6-x)}Au_x$
Eur. Phys. J. Vol. **5**, 447 (1998).
140. J. Kroha, and P. Wölfle
Fermi and Non-Fermi Liquid Behavior of Local-Moment Systems within a Conserving Slave Boson Theory
In: **Magnetism and Electronic Correlations in Local-Moment Systems: Rare-Earth Elements and Compounds**
M. Donath, P.A. Dowben and W. Nolting, eds. pp. 335, World Scientific (Singapore, 1998).
141. P.J. Hirschfeld, M.-R. Li, and P. Wölfle
Comment on T -Dependence of the Magnetic Penetration Depth in Unconventional Superconductors at Low Temperatures. Can it be linear?
Phys. Rev. Lett. **81**, 4024 (1998).

142. M.-R. Li, P.J. Hirschfeld, and P. Wölfle
Is the Nonlinear Meissner Effect Unobservable?
Phys. Rev. Lett. **81**, 5640 (1998).
143. J. Kroha, and P. Wölfle
Fermi and Non-Fermi Liquid Behavior in Quantum Impurity Systems: Conserving Slave Boson Theory
Acta Physica Polonica **B 29**, 3781 (1998).
144. F. Evers, A.D. Mirlin, D.G. Polyakov, and P. Wölfle
Semiclassical Theory of Transport in a Random Magnetic Field
Phys. Rev. **B 60**, 8951 (1999).
145. P. Wölfle
Superfluid ^3He and Unconventional Superconductors
Physica **C 317-318**, 55 (1999).
146. Y. Levinson, and P. Wölfle
Current Noise in a Irradiated Point Contact
Phys. Rev. Lett. **83**, 1399 (1999).
147. K.A. Muttalib, and P. Wölfle
'One-Sided' Log-normal Distribution of Conductances for a Disordered Quantum Wire
Phys. Rev. Lett. **83**, 3013 (1999).
148. J. Kroha, and P. Wölfle
Fermi and non-Fermi Liquid Behavior in Quantum Impurity Systems: Conserving Slave Boson Theory
In: **Advances in Solid State Physics, Vol. 39**, B. Kramer, ed. P. 271 (Vieweg-Verlag, 1999).
149. M.-R. Li, P.J. Hirschfeld, and P. Wölfle
*Reply to Comment on *Is the Nonlinear Meissner Effect Unobservable?**
Phys. Rev. Lett. **83**, 888 (1999).
150. A.D. Mirlin, J. Wilke, F. Evers, D.G. Polyakov, and P. Wölfle
Strong Magnetoresistance Induced by Long-Range Disorder
Phys. Rev. Lett. **83**, 2801 (1999).
151. P. Wölfle, and K. Muttalib
Conductance Distribution of Disordered Quasi One-Dimensional Wires
Annalen der Physik, **8**, 507 (1999).
152. A. Rosch, P. Wölfle, A. Neubert, A. Schröder, O. Stockert, U. Tutsch,,,, and H. v. Löhneysen
Interplay of Magnetic Order and Electronic Transport in CeCuAu_x
Physica **B, 259-261**, 385 (1999).

153. M.-R. Li, P.J. Hirschfeld, and P. Wölfle
Free Energy and Magnetic Penetration Depth of a d-Wave Superconductor in the Meissner State
Phys. Rev. B **61**, 648 (2000).
154. F. Evers, A.D. Mirlin, D.G. Polyakov, J. Wilke, and P. Wölfle
Semiclassical transport in a random magnetic field
Physica E **6**, 742 (2000).
155. T. Schauerte, J. Kroha, and P. Wölfle
Auxiliary particle theory of threshold singularities in photoemission and X-ray absorption spectra: Test of a conserving T-matrix approximation.
Phys. Rev. B. **62**, 4394 (2000).
156. J. Wilke, A.D. Mirlin, D.G. Polyakov, F. Evers, and P. Wölfle
Zero-frequency anomaly in quasiclassical ac transport: Memory effects in a two-dimensional metal with long-range potential or random magnetic field.
Phys. Rev. B **61**, 13774 (2000).
157. Y. Levinson, O. Entin-Wohlmann, and P. Wölfle
Acoustoelectric current and pumping in a ballistic quantum point contact.
Phys. Rev. Lett. **85**, 634 (2000).
158. P. Wölfle
Magnetism and Superconductivity in Highly Correlated Electron Systems
in: **The Proceedings of the German-Japanese Meeting in Sapporo, Japan**
11. – 15. September 2000.
159. P. Wölfle
Quasiclassical Theory of Phase Relaxation by Thermal Gauge-Field Fluctuations
Foundations of Physics, Vol. **30**, Nr. 12, (2000).
160. D. Vollhardt, and P. Wölfle
Superfluid Helium 3: Link between Condensed Matter Physics and Particle Physics.
Acta Physical Polonica B., Vol. **31** (Nr. 12), 2837 (2000). (cond-mat/0012052).
161. P. Wölfle
Composite Fermions in Quantum Hall Systems near $\nu = 1/2$
In: Advances in Solid State Physics”, Vol. **40**, (2000), ed. B. Kramer (Vieweg-Verlag 2000).
162. J. Kühn, H. v. Löhneysen, T. Müller, and P. Wölfle
Kräfte in der Natur
In: Technische Universität an der Schwelle zum 21. Jahrhundert.
Festschrift zur 175-Jahr-Feier der Universität Karlsruhe
(Herausgeber: H. Kunle, St. Fuchs), Springer-Verlag Berlin, Heidelberg, **2000**, S. 133.
163. M.-R. Li, P.J. Hirschfeld, and P. Wölfle
Vortex in a d-wave superconductor at low temperatures

- Phys. Rev. **B 63**, 054504 (2001).
164. F. Evers, A.D. Mirlin, D.G. Polyakov, and P. Wölfle
Quasiclassical Memory-Effects: Anomalous Transport Properties of Two-Dimensional Electrons and Composite-Fermions Subject to Long-Range Disorder.
Usp. Fiz. Nauk. (Suppl.) **171**, 27 (2001).
165. F. Evers, A.D. Mirlin, D.G. Polyakov, and P. Wölfle
Finite-Frequency Transport of Composite Fermions
Physica B **298**, 187 (2001).
166. J. Kroha, and P. Wölfle
Diagrammatic Theory of Anderson Impurity Models: Fermi and Non-Fermi Liquid Behavior
NATO Science Series II, **Vol. 15**, 101 (Kluwer Academic Publishers, Dordrecht, 2001)
167. K. Haule, S. Kirchner, J. Kroha, and P. Wölfle
Diagrammatic Theory of the Anderson Impurity Model with Finite Coulomb Interaction
In Proceedings of the NATO Advanced Research Workshop “Size dependent magnetic scattering”, Pecs, Hungary, May 28 – June 1, 2000.
NATO Science Series II, **Vol. 50**, 211 (Kluwer Academic Publishers, 2001).
168. K. Haule, S. Kirchner, J. Kroha, and P. Wölfle
Diagrammatic Theory of the Anderson Impurity Model with Finite Coulomb Interaction
In Proceedings of the NATO Advanced Research Workshop “Open problems in Strongly correlated electron systems”, Bled, Slovenia, April 26 – 30, 2000.
NATO Science Series II, **Vol. 15**, 413 (Kluwer Academic Publishers, Dordrecht, 2001).
169. K.A. Muttalib, and P. Wölfle
Emergence of Anomalous Distributions in Disordered Systems.
Annals of the New York Academy of Sciences, **Vol. 927**, 136 (2001).
170. A.D. Mirlin, and P. Wölfle
Comment on *Antilocalization in a 2D Electron Gas in a Random Magnetic Field*
Phys. Rev. Lett. **86**, 3688 (2001).
171. Y. Levinson, O. Entin-Wohlmann, and P. Wölfle
Pumping at Resonant Transmission and Transferred Charge Quantization
Physica A **302**, 335 (2001). (cond-mat/0010494).
172. D. Hermann, M. Frank. K. Busch, and P. Wölfle
Photonic Band Structure Computations
Optics Express **8**, 167 (2001).
173. A.D. Mirlin, E. Tsitsishvili, and P. Wölfle
Magnetotransport in Lateral Superlattices with Small-Angle Impurity Scattering: Low-Field Magnetoresistance.

- Phys. Rev. **B 64**, 125319 (2001).
174. I.V. Gornyi, A.D. Mirlin, and P. Wölfle
Current Correlations and Quantum Localization in 2D Disordered Systems with Broken Time-Reversal Invariance
Phys. Rev. **B 64**, 115403 (2001).
175. A.D. Mirlin, E. Tsitsishvili, and P. Wölfle
Magnetotransport in 2D lateral Superlattices with Smooth Disorder: Quasiclassical Theory of Commensurability Oscillations.
Phys. Rev. **B 63**, 245310 (2001).
176. A.D. Mirlin, D.G. Polyakov, F. Evers, and P. Wölfle
Quasiclassical Negative Magnetoresistance of a 2D Electron Gas: Interplay of Strong Scatterers and Smooth Disorder.
Phys. Rev. Lett. **87**, 126805 (2001).
177. A. Rosch, J. Kroha and P. Wölfle
The Kondo Effect in Quantum Dots at High Voltage: Universality and Scaling.
Phys. Rev. Lett. **87**, 156802 (2001).
178. D.G. Polyakov, A.D. Mirlin, F. Evers, and P. Wölfle
Quasiclassical Magnetotransport in a Random Array of Antidots.
Phys. Rev. **B 64**, 205306 (2001).
179. O. Entin-Wohlman, Y. Levinson, and P. Wölfle
Acoustoelectric Pumping Through a Ballistic Point Contact in the Presence of Magnetic Field.
Phys. Rev. **B 64**, 195308 (2001).
180. K. Haule, S. Kirchner, J. Kroha, and P. Wölfle
Anderson Impurity Model at Finite Coulomb Interaction U : Generalized Non-Crossing Approximation.
Phys. Rev. **B. 64**, 155111 (2001).
181. F. Dahlem, F. Evers, A.D. Mirlin, D.G. Polyakov, and P. Wölfle
Nonadiabatic Scattering of a Quantum Particle in an Inhomogeneous Magnetic Field.
Europhys. Lett. **55**, 603 (2001).
182. P. Wölfle, A. Rosch, J. Paaske, and J. Kroha
Non-Equilibrium Transport Through a Kondo-Dot in a Magnetic Field
Adv. In Solid State Physics **42**, 175 (Springer, 2002).
183. I.V. Gornyi, A.D. Mirlin, and P. Wölfle
Current Correlations and Quantum Localization in a Random or Homogeneous Magnetic Field.
Physica **E 12**, 637 (2002).
184. F. Evers, A.D. Mirlin, D.G. Polyakov, and P. Wölfle
Magnetotransport in a Random Array of Antidots.

- Physica E **12**, 260 (2002).
185. A. Garcia-Martin, D. Hermann, K. Busch, and P. Wölfle
Solid State Theoretical Methods for Defect Computations in Photonic Crystals
Mat. Res. Soc. Symp. **Vol. 722**, L 1.1, (2002).
186. V.A. Gopar, K.A. Muttalib, and P. Wölfle
Conductance Distribution in Disordered Quantum Wires: Crossover Between the Metallic and Insulating Regimes.
Phys. Rev. **B 66**, 174204 (2002).
187. K. Haule, A. Rosch, J. Kroha, and P. Wölfle
Pseudogaps in an Incoherent Metal.
Phys. Rev. Lett. **89**, 236402 (2002).
188. J.T. Chalker, D.G. Polyakov, F. Evers, A.D. Mirlin, and P. Wölfle
Quantum Hall Ferromagnetics, Cooperative Transport Anisotropy, and the Random Field Ising Model.
Phys. Rev. **B 66**, 161317 (2002).
189. K. Busch, A. Garcia-Martin, D. Hermann, L. Tkeshalashvili, M. Frank, and P. Wölfle
Photonic Crystals: Optical Materials for the 21st Century
Adv. In Solid State Phys. **42**, 41 (2002).
190. A. Garcia-Martin, M. Governale, and P. Wölfle
Magnetic Field Effects on the Transport Properties of One-Sided Rough Wires.
Phys. Rev. **B 66**, 233307 (2002).
191. S. Kirchner, J. Kroha and P. Wölfle
Selfconsistent Auxiliary Particle Theory for Strongly Correlated Fermion Systems.
In: **High Performance Computing in Science and Engineering 2002**,
Eds. E. Krause and W. Jäger, Springer **2002**.
192. J. Kroha, S. Kirchner, G. Sellier, P. Wölfle, D. Ehm, F. Reinert, S. Hufner, and C. Geibel
Structure and Transport in Multi-Orbital Kondo Systems.
Physica E **18**, 69 (2003).
193. A. Rosch, J. Paaske, J. Kroha, and P. Wölfle
Non-Equilibrium Transport through a Kondo-Dot in a Magnetic Field: Perturbation Theory and Poor Man's Scaling.
Phys. Rev. Lett. **90**, 076804 (2003).
194. K.A. Muttalib, P. Wölfle, A. Garcia-Martin, and V. Gopar
Non-Analyticity in the Distribution of Conductances in Quasi One-Dimensional Wires.
Europhys. Lett. **61**, 95-101 (2003).
195. P. Wölfle, A. Rosch, J. Paaske, and J. Kroha
Nonequilibrium Electron Transport through Nanostructures: Correlation Effects
NATO Series II, **Vol. 110**, 239 (2003) (Kluwer).

196. J. Kroha, and P. Wölfle
Fermi and Non-Fermi Liquid Behavior of quantum Impurity Models: A Diagrammatic Pseudo-particle Approach
In: **Theoretical Methods for Strongly Correlated Electrons**,
David Senechal, Andrei-Marie Tremblay and Claude Bourbonnais (eds), CRM Series
in Mathematical Physics, Springer, New York, 2003.
197. A. Garcia-Martin, D. Hermann, F. Hagmann, K. Busch, and P. Wölfle
Defect Computations in Photonic Crystals: A Solid State Theoretical Approach
Nanotechnology **14**, 177 (2003).
198. A. Rosch, T.A. Costi, J. Paaske, and P. Wölfle
Spectral Function of the Kondo Model in High Magnetic Fields
Phys. Rev. **B 68**, 014430 (2003).
199. K. Haule, A. Rosch, J. Kroha, and P. Wölfle
Pseudogaps in the t - J Model: An EDMFT Study
Phys. Rev. **B 68**, 155119 (2003).
200. K.A. Muttalib, P. Wölfle, and V.A. Gopar
Conductance Distribution in Quasi-one-dimensional Disordered Quantum Wires
Annals of Physics, **308**, 156 (2003).
201. J. Kroha, A. Rosch, J. Paaske, and P. Wölfle
Nonequilibrium Transport and Relaxation in Diffusive Nanowires
Adv. Solid State Phys. **43**, 223, ed. B. Kramer (Springer 2003).
202. S. Kirchner, P. Wölfle, E. Scheer, and J. Kroha
Conductance of Quantum Point Contacts: What is Wrong with Tight-binding Models?
In: “Anderson localization and its ramifications: Disorder phase coherence and
Electron correlations”, eds. T. Brandes and S. Kettmann, 303 (Springer 2003).
203. J. Kroha, S. Kirchner, G. Sellier, P. Wölfle, D. Ehm, F. Reinert, S. Hufner and
C. Geibel.
Structure and transport in multi-orbital Kondo systems
Invited paper, XIII, International Conference on Low Temperature Physics, LT 23,
Hiroshima, 2002
Physica **E 18**, 69 (2003)
204. J. Paaske, A. Rosch, and P. Wölfle
*Nonequilibrium Transport through a Kondo-dot in a Magnetic Field: Perturbation
Theory.*
Phys. Rev. **B 69**, 155330 (2004).
205. J. Paaske, A. Rosch, J. Kroha and P. Wölfle
Nonequilibrium Transport through a Kondo-dot: Decoherence Effects
Phys. Rev. **B 70**, 155301 (2004).

206. P. Markos, K.A. Muttalib, P. Wölfle, and J.R. Klauder
Conductance Distribution in 3D Anderson Insulators: Deviation from Log-Normal Form
Europhys. Lett. **68** (6), 867-873 (2004).
207. S. Kirchner, J. Kroha, and P. Wölfle
Dynamical Properties of the Anderson Impurity Model within a Diagrammatic Pseudoparticle Approach
Phys. Rev. **B 70**, 165102 (2004).
208. J. Brinckmann, and P. Wölfle
Auxiliary-Fermion Approach to Critical Fluctuations in the 2D Quantum AF Heisenberg Model.
Phys. Rev. **B 70**, 174445 (2004).
209. J.T. Chalker, D.G. Polyakov, F. Evers, A.D. Mirlin and P. Wölfle
Disordered Quantum Hall Ferromagnets and Cooperative Transport Anisotropy
In: Proceedings of EP2DS-15 (Nara, 2003)
Physics **E 22**, 82 (2004).
210. P. Wölfle and J. Brinckmann
Description of Magnetic Short-Range Order in the 2D Heisenberg Model: Auxiliary Fermions with Reduced Self-Consistency.
In: Proceedings of the SCES 2004, Karlsruhe
Physica B: Physics of Condensed Matter **359-361**, 798 (2005).
211. A. Rosch, J. Paaske, J. Kroha and P. Wölfle
The Kondo Effect in Non-equilibrium Quantum Dots: Perturbative Renormalization Group
Special Issue: "Kondo Effect – 40 Years after the Discovery"
J. Phys. Soc. Jpn. **Vol. 74 (1)**, p. 118 (2005). (cond-mat/0408506).
212. J. Kroha and P. Wölfle
Conserving Diagrammatic Approximations for Quantum Impurity Models : NCA and CTMA
Special Issue: "Kondo Effect – 40 Years after the Discovery"
J. Phys. Soc. Jpn. **Vol. 74(1)**, 16 (2005). (cond-mat/0410273)
213. K.A. Muttalib, P. Markos, and P. Wölfle
Conductance Distribution in Strongly Disordered Mesoscopic Systems in Three Dimensions.
Phys. Rev. **B 72**, 125317 (2005); Virtual Journal of Nanoscale Science and Technology, 26.9.05 Issue.
214. J. T. Chalker, D.G. Polyakov, F. Evers, A.D. Mirlin and P. Wölfle
Quantum Hall Ferromagnets, Cooperative Transport Anisotropy, and the Random Field Ising Model
In: Fundamental Problems of Mesoscopic Physics: Interactions and Decoherence
Eds. I.V. Lerner, B.L. Altshuler, and Y. Gefen (Kluwer, 2004), p. 239.

215. M. Garst, P. Wölfle, L. Borda, J. von Delft and L. Glazman
Energy-Resolved Inelastic Electron Scattering off a Magnetic Impurity
Phys. Rev. **B 72**, 205125 (2005).
216. D. Bohr, P. Schmitteckert, and P. Wölfle
DMRG Evaluation of the Kubo formula – Conductance of Strongly Interacting Quantum Systems
Europhys. Lett., **73**, 246 (2006)
217. S. Kirchner, J. Kroha and P. Wölfle
Fermi-liquid Properties of the Anderson Impurity Model within Conserving Pseudoparticle Approach
Physica B: Physics of Condensed Matter, Vol. **359-361C**, pp. 765-758 (2005).
218. V.A. Gopar and P. Wölfle
Effect of Temperature and Bias Voltage on the Conductance Distribution of Disordered 1d Quantum Wires
Europhys. Lett. **71**, 966 (2005).
219. P. Wölfle and K.A. Muttalib
Anomalous Hall effect in ferromagnetic disordered metals
Ann. Phys. (Leipzig) **15**, 508 (2006)
Special Issue Commemorating Paul Drude, (October 2005)
220. J. Paaske, A. Rosch, P. Wölfle and J. Kroha
Non-equilibrium Transport Through Quantum Dots in the Kondo Regime
Contributed paper to the International Conference on Low Temperature Physics LT24, Orlando, Florida (2005)
221. J. Paaske, A. Rosch, P. Wölfle, N. Mason, C.M. Marcus and J. Nygard
Nonequilibrium Singlet-Triplet Kondo Effect in Carbon Nanotubes
Nature Physics **2**, 460 (2006). Cond-mat/0602581
222. H. v. Löhneysen, H. Bartolf, C. Pfleiderer, F. Obermair, M. Vojta and P. Wölfle
Magnetotransport in $CeCu_{6-x}Au_x$
Physica B 378-380, 44-45 (2006).
223. P. Wölfle and A. Rosch
Fermi liquid near a quantum critical point
Journal of Low Temperature Physics, **147**, 165-177 (2007).
224. H. v. Löhneysen, A. Rosch, M. Vojta and P. Wölfle
Fermi liquid instabilities at magnetic quantum phase transitions
Rev. Mod. Phys. **Vol. 79**, 1017 (2007)
225. P. Mitra, A.F. Hebard, K.A. Muttalib and P. Wölfle,
Weak localization correction to the anomalous Hall effect in polycrystalline Fe films
Phys. Rev. Lett. **99**, 046804 (2007)

226. V. Koerting, P. Wölfle, and J. Paaske
Transconductance in a double quantum dot system in the Kondo regime
Phys. Rev. Lett. **99**, 038807 (2007)
227. C.-H. Chung, G. Zarand and P. Wölfle
Two-stage Kondo effect in side-coupled quantum dots: Renormalized Perturbation scaling theory and numerical renormalization group analysis.
Phys. Rev. **B 77**, 035120 (2008)
228. D. Ehm, S. Hufner, F. Reinert, J. Kroha, P. Wölfle, O. Stockert, C. Geibel and H.von Löhneysen
High resolution photoemission study on low- T_K Ce Systems: Kondo resonance, crystal field structures, and their temperature dependence.
Phys. Rev. **B 76**, 045117 (2007).
229. D. Hermann, M. Diem, S. F. Mingaleev, A. Garcia-Martin, P. Wölfle, and K. Busch
Photonic Crystals with anomalous dispersion: Novel propagating modes in the photonic band gap
Phys. Rev. **B 77**, 035112 (2008)
230. T. Ludwig, I.V. Gornyi, A.D. Mirlin, and P. Wölfle
Effect of gauge-field interaction on fermion transport in 2D: Hartree conductivity Correction and dephasing
Phys. Rev. **B 77**, 235414 (2008)
231. I.A. Dmitriev, F. Evers, I.V. Gornyi, A.D. Mirlin, D.G. Polyakov, and P. Wölfle
Magnetotransport of electrons in quantum Hall systems.
Physica Status Solidi (b) **245**, 239 (2008)
232. V. Koerting, J. Paaske and P. Wölfle
Electron transport in the four-lead two-impurity Kondo model: Nonequilibrium Perturbation theory with almost degenerate levels
Phys. Rev. **B 77**, 165122 (2008)
233. K.A. Muttalib and P. Wölfle
Disorder and temperature dependence of the Anomalous Hall effect in thin ferromagnetic films: Microscopic model
Phys. Rev. **B 76**, 214415 (2007)
234. D. Vollhardt und P. Wölfle
Eine Sternstunde der modernen Physik: Vor 50 Jahren lösten Bardeen, Cooper und Schrieffer das Rätsel der Supraleitung
Physik Journal **7**, Nr. 1 (Januar) 42 (2008)
235. D.N. Aristov and P. Wölfle
Transport of interacting electrons through a potential barrier: nonperturbative RG approach
Europhysics Letters **82**, 27001 (2008)

236. H. v. Löhneysen and P. Wölfle, *Quantum phase transitions*, in Lectures on the Physics of Strongly Correlated Systems XII, AIP Conference Proceedings **1014**, 107 (2008)
237. A. Bagrets, R. Werner, F. Evers, G. Schneider, D. Schooss and P. Wölfle, *Lowering of surface melting temperature in atomic clusters with a nearly closed shell structure*, Phys. Rev. B **81**, 075435 (2010)
238. S. Schmaus, V. Koerting, J. Paaske, T.S. Jespersen, J. Nygard and P. Wölfle *Nonequilibrium Co-tunneling through a three-level quantum dot* Phys. Rev. B **79**, 045101 (2009)
239. E. Abrahams and P. Wölfle
Electron spin resonance in Kondo systems
Phys. Rev. B **78**, 104423 (2008); Editors recommendation.
240. R. Misra, A.F. Hebard, K.A. Muttalib and P. Wölfle
Spin-wave mediated quantum corrections to the conductivity in thin ferromagnetic gadolinium films
Phys. Rev. B **79**, 140408(R) (2009); Editors recommendation.
241. D.N. Aristov and P. Wölfle
Conductance through a potential barrier embedded in a Luttinger liquid: nonuniversal scaling at strong coupling
Phys. Rev. B **80**, 045109 (2009);
242. P. Wölfle and E. Abrahams,
Phenomenology of ESR in heavy fermion systems: Fermi liquid and non-Fermi liquid regime
Phys. Rev. B **80**, 235112 (2009).
243. M. Zacharias, P. Wölfle and M. Garst,
Multiscale quantum criticality: Pomeranchuk instability in isotropic metals,
Phys. Rev. B **80**, 165116 (2009); Editors recommendation.
244. C.-H. Chung, K. LeHur, M. Vojta and P. Wölfle,
Nonequilibrium Transport at a Dissipative Quantum Phase Transition,
Phys. Rev. Lett. **102**, 216803 (2009)
245. H. Schmidt and P. Wölfle,
Transport through a Kondo quantum dot: Functional RG Approach,
Ann. Phys. (Leipzig) **19**, 60 (2010)
246. J. Reuther and P. Wölfle,
 J_1 - J_2 frustrated two-dimensional Heisenberg model: Random phase approximation and functional renormalization group,
Phys. Rev. B **81**, 144410 (2010).

247. P. Wölfle and D. Vollhardt,
Anderson localization: self-consistent theory and applications,
in **50 Years of Anderson Localization**, ed. E. Abrahams (World Scientific, Singapore, 2010), p. 43; reprinted in *Int. J. Mod. Phys. B* **24**, 1526 (2010)
248. P. Wölfle and K. A. Muttalib,
Phase Relaxation of Electrons in Disordered Thin Ferromagnetic Films,
in **Perspectives of Mesoscopic Physics**, A. Aharony ed. (World Scientific, 2010)
249. P. Wölfle,
Anderson Localization
in **Proceedings of the International School of Physics “Enrico Fermi”**,
Course CLXXIII, *Nano optics and atomics: Transport of light and matter waves*,
eds. R. Kaiser, D.S. Wiersma and L. Fallani, p.1-22 (IOS Press, Amsterdam, 2011)
250. P. Wölfle, Y. Dubi and A.V. Balatsky,
Tunneling into clean Heavy Fermion Compounds: Origin of the Fano Lineshape,
Phys. Rev. Lett. **105**, 246401 (2010)
251. D.N. Aristov, A.P. Dmitriev, I.V. Gornyi, V.Yu. Kachorovskii, D.G. Polyakov,
and P. Wölfle,
Tunneling into a Luttinger liquid revisited,
Phys. Rev. Lett. **105**, 266404 (2010)
252. C.-H. Chung, K. V. P. Latha, K. Le Hur, M. Vojta, and P. Wölfle,
Tunable Kondo-Luttinger systems far from equilibrium,
Phys. Rev. B **82**, 115325 (2010)
253. S. Bera, A. Arnold, F. Evers, R. Narayanan, and P. Wölfle,
Elastic properties of grapheme flakes: Boundary effects and lattice vibrations,
Phys. Rev. B **82**, 195445 (2010)
254. J. Reuther, P. Wölfle, R. Darradi, W. Brenig, M. Arlego and J. Richter,
Quantum phases of the planar antiferromagnetic J_1 - J_2 - J_3 -Heisenberg model,
Phys. Rev. B **83**, 064416 (2011)
255. J.-J. Su, Y. Dubi, P. Wölfle and A.V. Balatsky
A charge density wave in the hidden order state of URu_2Si_2
J. Phys.: Condens. Matter **22**, 094214 (2011)
256. P. Wölfle, and E. Abrahams
Quantum critical behavior of heavy fermions: Quasiparticles in the Gaussian fluctuation regime
Ann. Phys. (Berlin) **523**, 591 (2011)
257. P. Wölfle, and E. Abrahams
Quasiparticles beyond the Fermi liquid and heavy fermion criticality
Phys. Rev. B **84**, 041101 (2011) ; Editors recommendation.

258. M.Yu. Kagan, V.V. Val'kov, and P. Wölfle
Manifestation of the Upper Hubbard band in the 2D Hubbard model at low electron density,
Fizika Nizkih Temperatur (Sov. Low Temp. Phys.) **37**, N9 (2011).
259. R. Misra, A. F. Hebard, K. A. Muttalib, and P. Wölfle,
Asymmetric Metal-Insulator Transition in Disordered Ferromagnetic Films,
Phys. Rev. Lett. **107**, 037201 (2011).
260. K. A. Muttalib, P. Wölfle, R. Misra, and A. F. Hebard,
Unusual Metal-Insulator Transition in Disordered Ferromagnetic Films
Physica B **30**, 6772 (2012).
261. D. N. Aristov, and P. Wölfle,
Transport properties of a Y-junction connecting Luttinger liquid wires,
Phys. Rev. B **84**, 155426 (2011)
262. J. T. Haraldsen, P. Wölfle, and A. V. Balatsky,
Understanding the electric-field enhancement of the superconducting transition temperature for complex oxide interfaces
Phys. Rev. B **85**, 134501 (2012)
263. E. Abrahams, and P. Wölfle,
Critical quasiparticle theory applied to heavy fermion metals near an Antiferromagnetic quantum phase transition,
Proc. Nat. Acad. Sciences **109**, 3238 (2012)
264. D. N. Aristov, and P. Wölfle,
Transport through asymmetric two-lead junctions of Luttinger liquid wires,
Lith. J. Phys **52**, 89 (2012)
265. D. N. Aristov, and P. Wölfle,
Chiral junction of Luttinger liquid wires at weak coupling: Lines of stable fixed points
Phys. Rev. B **86**, 035137 (2012)
266. R. Fresard, J. Kroha, and P. Wölfle,
The pseudoparticle approach to strongly correlated electron systems,
in "Strongly correlated systems: theoretical methods", Springer Series in Solid State Sciences **171**, 65-101 (2012)
267. R. M. Fernandes, J. T. Haraldsen, P. Wölfle, and A.V. Balatsky,
Two-band superconductivity in doped SrTiO₃ films and interfaces,
Phys. Rev. B **87**, 014510 (2013)
268. G.-W. Chern, S. Maiti, R. M. Fernandes, and P. Wölfle,
Electronic transport in the Coulomb phase of the Pyrochlore Spin Ice,
Phys. Rev. Lett. **110**, 146602 (2013)
269. P. Ostrovsky, T. Nakayama, K. A. Muttalib, and P. Wölfle,
Scale-dependent correction to the dynamical conductivity of a disordered system at unitary symmetry,

- New J. Phys. **15**, 055010 (2013)
270. C.-H. Chung, K. LeHur, G. Finkelstein, M. Vojta, and P. Wölfle,
Nonequilibrium quantum transport through a dissipative resonant level,
Phys. Rev. B **87**, 245310 (2013)
271. D.N. Aristov and P. Wölfle,
Chiral Y junction of Luttinger liquid wires at strong coupling: Fermionic representation,
Phys. Rev. B **88**, 075131 (2013)
272. R. M. Fernandes, S. Maiti, P. Wölfle, and A.V. Chubukov,
How many quantum phase transitions exist inside the superconducting dome of the iron pnictides,
Phys. Rev. Lett. **111**, 057001 (2013)
273. A.V. Chubukov, and P. Wölfle
Quasiparticle interaction function in a two-dimensional Fermi liquid near an antiferromagnetic critical point,
Phys. Rev. B **89**, 045108 (2014).
274. N. B. Perkins, Y. Sizyuk, and P. Wölfle
Interplay of many-body and single-particle interactions in iridates and rhodates,
Phys. Rev. B **89**, 035143 (2014).
275. E. Abrahams, J. Schmalian, and P. Wölfle
Strong-coupling theory of heavy-fermion criticality,
Phys. Rev. B **89**, 045105 (2014).
276. D.N. Aristov and P. Wölfle,
Transport properties of a two-lead Luttinger-liquid junction out of equilibrium: Fermionic representation,
Phys. Rev. B **90**, 245414 (2014).
277. N. B. Perkins, Y. Sizyuk, and P. Wölfle
Importance of anisotropic exchange interactions in honeycomb iridates: Minimal model for zigzag antiferromagnetic order in Na₂IrO₃,
Phys. Rev. B **90**, 155126 (2014).
278. A. Hinojosa, A. V. Chubukov, and P. Wölfle,
Effect of pairing fluctuations on the spin resonance in Fe-based superconductors,
Phys. Rev. B **90**, 104509 (2014).
279. S. Buvaev, S. Ghosh, K. Muttalib, P. Wölfle, and A. Hebard,
Transport measurements of the spin-wave parameters of thin Mn films,
Phys. Rev. B **90**, 214429 (2014); Editors recommendation.
280. P. Wölfle,
Dynamic equilibrium of collective degrees of freedom in strongly correlated quantum Matter,
J. Phys.: Conference Series **268**, 042034 (2014).

281. K. A. Muttalib, and P. Wölfle,
Quantum corrections to the conductivity of itinerant antiferromagnets,
Phys. Rev. B **91**, 144410 (2015).
282. P. Wölfle, and P. Schmitteckert,
Quantum phase transitions in frustrated magnetic systems,
Eur. Phys. J. Special Topics **224**, 1087–1103 (2015).
283. M. Vojta, R. Bulla, and P. Wölfle,
Critical quasiparticles in single-impurity and lattice Kondo models,
Eur. Phys. J. Special Topics **224**, 1127–1146 (2015).
284. P. Wölfle, and E. Abrahams,
Spin-flip scattering of critical quasiparticles and the phase diagram of YbRh_2Si_2 ,
Phys. Rev. B **92**, 155111 (2015); Editors recommendation.
285. Zhoushen Huang, P. Wölfle, and A. V. Balatsky,
Odd-frequency pairing of interacting Majorana fermions,
Phys. Rev. B **92**, 121104 (R) (2015).
286. Y. Sizyuk, N. B. Perkins, and P. Wölfle,
Lifting mean-field degeneracies in anisotropic classical spin systems,
Phys. Rev. B **92**, 155131 (2015).
287. P. Wölfle, and E. Abrahams,
Vertex functions at finite momentum: Application to antiferromagnetic quantum criticality,
Phys. Rev. B **92**, 155111 (2016).
288. P. S. Weiß, B. N. Narozhny, J. Schmalian, and Peter Wölfle,
Interference of quantum critical excitations and soft diffusive modes in a disordered antiferromagnetic metal,
Phys. Rev. B **93**, 045128 (2016).
289. Y. Sizyuk, N. B. Perkins, and P. Wölfle,
Lifting mean-field degeneracies in anisotropic classical spin systems,
Phys. Rev. B **94**, 079901(E) (2016).
290. Y. Sizyuk, P. Wölfle, and N. B. Perkins,
Selection of direction of the ordered moments in Na_2IrO_3 and $\alpha\text{-RuCl}_3$,
Phys. Rev. B **94**, 085109 (2016).
291. D. N. Aristov, I. V. Gornyi, D. G. Polyakov, and P. Wölfle,
Y junction of Luttinger liquid wires out of equilibrium,
Phys. Rev. B **95**, 155447 (2017).
292. Peter Wölfle, Jörg Schmalian, and Elihu Abrahams,
Strong coupling theory of heavy fermion criticality II,
Rep. Prog. Phys. **80**, 044501 (2017).

293. E. I. Kiselev, M. S. Scheurer, P. Wölfle, and J. Schmalian,
Limits on dynamically generated spin-orbit coupling: Absence of $l = 1$ Pomeranchuk instabilities in metals,
Phys. Rev. B **95**, 125122 (2017).
294. P. Wölfle, N. B. Perkins, and Y. Sizyuk,
Free energy of quantum spin systems: Functional integral representation
Phys. Rev. B **95**, 184408 (2017).
295. D. N. Aristov, and P. Wölfle,
Conductance scaling of junctions of Luttinger-liquid wires out of equilibrium,
Phys. Rev. B **97**, 205101 (2018).
296. Jian Kang, Rafael M. Fernandes, Elihu Abrahams, and Peter Wölfle,
Superconductivity at an antiferromagnetic quantum critical point: Role of energy Fluctuations, Phys. Rev. B **98**, 214515 (2018).
297. Peter Wölfle and Alexander V. Balatsky,
Superconductivity at low density near a ferroelectric quantum critical point: Doped SrTiO₃, Phys. Rev. B **98**, 104505 (2018).
298. Peter Wölfle, *Quasiparticles in condensed matter systems*,
Rep. Prog. Phys. **81** 032501 (2018).
299. D. N. Aristov, I. V. Gornyi, D. G. Polyakov, and P. Wölfle,
Emergent chirality in multilead Luttinger-liquid junctions out of equilibrium,
Phys. Rev. B **100**, 165410 (2019).
300. Peter Wölfle and Alexander V. Balatsky,
Reply to “Comment on ‘Superconductivity at low density near a ferroelectric quantum critical point: Doped SrTiO₃’”,
Phys. Rev. B **100**, 226502 (2019).
301. Michael Klett, Seulgi Ok, David Riegler, Peter Wölfle, Ronny Thomale, and Tirus Neupert,
Topology and magnetism in the Kondo insulator phase diagram,
Phys. Rev. B **101**, 161112(R) (2020).
302. David Riegler, Michael Klett, Titus Neupert, Ronny Thomale, and Peter Wölfle,
Slave-boson analysis of the two-dimensional Hubbard model,
Phys. Rev. **101**, 235137 (2020).
303. Peter Wölfle,
Lightly doped SrTiO₃: A challenge to conventional solid state theory,
Jornal Club for Condensed Matter Physics, February 2020, 03.

304. Sa Tu, Timothy Ziman, Guoqiang Yu, Calhua Wan, Junfeng Hu, Hao Wu, Hanchen Wang, Mengchiao Liu, Chenyang Guo, Jianyu Zhang, Marco A. Cabero Z., Youguang Zhang, Peng Gao, Song Liu, Dapeng Yu, Xiufeng Han, Ingrid Hallsteinsen, Dustin A. Gilbert, Peter Wölfle, Kang L. Wang, Jean-Philippee Andermet, Sadamichi Maekawa, and Haiming Yu,
Record thermopower found in an IrMn-based spintronic stack,
Nature Commun. **11**, 2023 (2020).
305. Jannis Seufert, David Riegler, Michael Klett, Ronny Thomale, and Peter Wölfle,
Breakdown of charge homogeneity in the two-dimensional Hubbard model: Slave-boson study of magnetic order,
Phys. Rev. B **103**, 165117 (2021).
306. Peter Wölfle, and Timothy Ziman,
Theory of record thermopower near a finite temperature magnetic phase transition in IrMn,
Phys. Rev. B **104**, 054441 (2021).
307. David Riegler , Jannis Seufert, Eduardo H. da Silva Neto , Peter Wölfle, Ronny Thomale, and Michael Klett,
Interplay of spin and charge order in the electron-doped cuprates,
Phys. Rev. B **108**, 195141 (2023).

