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1. PUBLICATIONS

1.1 Monographs, Books

1. Diss. Universität Rostock (1992): *Properties of Partially Ionized Hydrogen Plasma in High Electric Fields*, K. Morawetz, GSI Report, GSI-93-14, 150 pages
2. Habilitation University of Rostock (1998): *Kinetic theory for strongly interacting Fermi systems*, K. Morawetz, 187 pages
3. *Kinetic theory for strongly interacting Fermi systems*, Annales de physique, 26,1 (2001) ISBN 2-86883-541-4, P. Lipavský, K. Morawetz, V. Spička, 256 pages
4. *Bernoulli potentials in superconductors - how electric fields help to understand superconductivity*, Lecture notes in Physics 733, Springer Verlag Berlin (2007), ISBN 978-3-540-73455-0, P. Lipavský, J. Kolaček, K. Morawetz, E. H. Brandt, T. Yang, 280 pages
5. *Interacting Systems far from Equilibrium – Quantum Kinetic Theory*, Oxford University Press (2017), ISBN: 9780198797241, K. Morawetz, 525 pages

1.2 Editor of books

6. Proceedings of the I.-V. Workshop on nonequilibrium physics at short time scale, Rostock University Press (1998), ISBN 3-86009-147-6, ed. by K. Morawetz, 150 pages
7. *Nonequilibrium at short time scales*, Springer Verlag, Berlin (2004), ISBN 3-540-20031-2, ed. by K. Morawetz, 476 pages
8. *Structure, disorder and correlations*, phys. stat. solidi (b) 241 no.9 (2004) 2007-2210 ed. by K. Morawetz, 203 pages
9. *Aspekte der Zeit* (German), LIT Verlag, Münster (2004), ISBN 3-8258-7971-2, ed. by J. Klose, K. Morawetz, 240 pages

1.3 Chapters in books

10. *Isospin Physics in heavy-ion collisions at intermediate energies*, Nova Science, New York (2001), ISBN 1-56072-888-4, ed. by B. A. Lie, U. Schroeder, nucl-th/0001032: Chapter: *Collective modes in asymmetric matter*, K. Morawetz, U. Fuhrmann, R. Walke, p. 183-223
11. *Nonequilibrium at short time scales*, Springer Verlag, Berlin (2004), ISBN 3-540-20031-2, ed. by K. Morawetz: Chapter: *Non-local Kinetic Theory*, K. Morawetz, P. Lipavský, p. 125-151
12. *Aspekte der Zeit* (german), LIT Verlag, Münster (2004), ISBN 3-8258-7971-2, ed. by J. Klose, K. Morawetz : Chapter: *Zeit im Weltbild der Physik*, K. Morawetz, p. 67-88

13. *Condensed Matter Theories*, Vol. 22, ed. by: H. Reinholz, G. Röpke, M. de Llano, World Scientific, Singapore (2007): Chapter *The concept of correlated density and its application*, K. Morawetz, P. Lipavský, J. Koláček, E. H. Brandt, M. Schreiber, p. 314-327
14. *Nanoscience and Engineering in Superconductivity* (Springer Series, NanoScience and Technology), Springer (2010), ISBN 978-3-642-15136-1, arXiv:0912.1265: *Surface superconductivity controlled by electric field*, J. Koláček, P. Lipavský, K. Morawetz
15. Festschrift of Norman March's 90th birthday: *Binary quantum correlations in nonequilibrium*, K. Morawetz, in *Many-body Approaches at Different Scales*, Eds. G. G. N. Angilella and C. Amovilli, Springer, p. 297-320, (2018), Berlin, ISBN 978-3-319-72373-0
16. *Innere und äußere Korruption der Wissenschaft in* : Klaus Buchenau, Matthias Fechner (Hgg.): *Verlorene Wissenschaft – Versuch einer Katharsis nach Corona* (Klartext. Schriften zu Politik und Gesellschaft; 2), Stuttgart: ibidem 2024, ISBN-10 3838219228

1.4 Publications in refereed journals

1992

17. *Contributions to Plasma Physics* **31**,5 535-544: *Partially Ionized Hydrogen Plasmas in Strong Electric Fields*, K. Morawetz, D. Kremp
18. *Contributions to Plasma Physics* **31**,5 519-534: *Kinetic Theory of Hot Carrier Screening*, K. Morawetz, D. Kremp, K. Kilimann

1993

19. *Phys. Rev.* **E 47**,1 635-640: *Impact ionization in nonideal plasmas in strong electric field*, D. Kremp, K. Morawetz, M. Schlanges, V. Rietz
20. *Phys. Rev.* **E 48**,4 2980-2988: *Nonlinear Conductivity of Partially Ionized Plasmas in High Electric Fields*, K. Morawetz, M. Schlanges, D. Kremp
21. *Phys. Lett.* **A 173** 317-325: *Field dependence of collision integral and the Debye - Onsager - Relaxation - Effect*, K. Morawetz, D. Kremp
22. *Phys. Lett.* **B 313**,1-5: *Dynamical structure factor of correlated hot nuclear matter*, G. Röpke, K. Morawetz, Th. Alm
23. *Contributions to Plasma Phys.* **33**,5-6 540-543: *Plasma instabilities due to high electric fields*

1994

24. *Phys. of Fluids* **B 1**,2 225-235: *Collective excitations and optical bistability in partially ionized Hydrogen-plasmas due to high electric fields*, K. Morawetz, D. Kremp
25. *Phys. Rev.* **E 50**,1 474-479: *Plasma Instabilities in High Electric Fields*, K. Morawetz, A.P. Jauho
26. *Phys. Rev.* **E 50**,5 4625-4635: *Theory of Fluctuations in High Electric Fields*, K. Morawetz
27. *Phys. Lett.* **A 190** 96-100: *Suppression of the effect of collisions due to memory effects*, K. Morawetz, R. Walke and G. Röpke

1995

28. Phys. Rev. **E 51** 4246-4266: *Memory Effects and Virial Corrections in Nonequilibrium Dense Systems*, K. Morawetz, G. Röpke
29. Phys. Lett. **A 199** 241-245: *The Landau equation including Memory and Energy Conservation*, K. Morawetz
30. Z. Phys. **A 352** 265-274: *In-medium Kinetic Theory and Nucleon -Meson Systems*, K. Morawetz, D. Kremp

1996

31. Z. Phys. **A 355** 287-299: *In-medium two-nucleon properties in high electric fields*, K. Morawetz, G. Röpke
32. Phys. Rev. **C 54**,2 833-843: *The Contribution of Density Fluctuations to the Damping of Giant Resonances*, K. Morawetz, M. Di Toro, L. Münchow
33. Phys. Rev. **E 54**,3 4134-4147: *Stopping power in nonideal dense plasmas*, K. Morawetz, G. Röpke
34. Laser and Particle Beams **14**,4 611-624: *Stopping power in nonideal plasmas*, K. Morawetz

1997

35. Phys. Rev. **C 55** 1015-1017 rap. comm.: *Exact Solution of selfconsistent Vlasov equation*, K. Morawetz
36. Phys. Rev. **A 55** 1945-1951: *Medium modification of two-particle scattering in nonideal Bose systems*, H. Stein, K. Morawetz, G. Röpke
37. Phys. Rev. **B 55** 5084-5095: *Quasiparticle transport equation with collisional delay: I. Phenomenological approach*, V. Spička, P. Lipavský, K. Morawetz
38. Phys. Rev. **B 55** 5095-5111: *Quasiparticle transport equation with collisional delay: II. Quantum statistical approach*, V. Spička, P. Lipavský, K. Morawetz
39. Contrib. Plasma Phys. **37**,2+3 195-211, errata **37**,4: *Debye-Onsager-Relaxation-Effect beyond linear Response and Antiscreening in Plasma Systems*, K. Morawetz
40. Laser and Particle Beams **15**, 507-521: *Stopping power in strongly coupled plasmas*, K. Morawetz

1998

41. Phys. Lett. **A 240** 160-166: *Nonlocal corrections to the Boltzmann equation for dense Fermi systems*, V. Spička, P. Lipavský, K. Morawetz
42. Phys. Rev. **C 57** 2813-2815 rap. comm.: *New collective mode due to collisional coupling*, K. Morawetz, R. Walke, U. Fuhrmann
43. Phys. Lett. **A 246** 311-317: *Formation of binary correlations in strongly coupled plasmas*, K. Morawetz, V. Spička, P. Lipavský
44. Phys. Rev. **C 58** 1473-1487: *Damping of Giant Dipole Resonances*, U. Fuhrmann, K. Morawetz, R. Walke
45. Nuclear Inst. and Meth. **A 415** 591-593 *Formation of correlations in strongly coupled plasma*, K. Morawetz, V. Spička, P. Lipavský

46. Nuclear Inst. and Meth. **A 415** 665-667 *Nonlinear Debye-Onsager-Relaxation-Effect*, K. Morawetz
47. Nuclear Inst. and Meth. **A 415** 662-664 *Transport theory with nonlocal corrections*, K. Morawetz, V. Spička, P. Lipavský

1999

48. Phys. Rev. Lett. **82** 3767-3770: *Virial corrections to simulations of heavy ion reactions*, K. Morawetz, V. Spička, P. Lipavský, G. Kortemeyer, Ch. Kuhrts, R. Nebauer
49. Nucl. Phys. **A 649** 348c-354c: *Damping of giant resonances in asymmetric nuclear matter*, K. Morawetz, U. Fuhrmann, R. Walke
50. Phys. Rev. **C 59**,6 3052-3059: *Duration and non-locality of a nucleon-nucleon collision*, K. Morawetz, V. Spička, P. Lipavský, H.N. Kwong
51. Phys. Rev. **C 60** 17301-17303: *Giant octupole resonance simulations*, R. Walke, K. Morawetz
52. Phys. Rev. **C 60** 54601-54610: *Chaotic scattering on surfaces and collisional damping of collective modes*, K. Morawetz, M. Vogt, U. Fuhrmann, P. Lipavský, V. Spička
53. Phys. Rev. **E 59** 1015-1025: *Dielectric properties of interacting storage ring plasmas*, errate Phys. Rev. **E 69**, 039902(E) A. Selchow, K. Morawetz
54. Phys. Rev. **E 59** 1291-1294 rap. comm.: *Noninstantaneous collisions and two concepts of quasiparticles*, P. Lipavský, V. Spička, K. Morawetz
55. Eur. Phys. J. **A 4** 291-305: *Formation of correlations and energy conservation at short time scales*, K. Morawetz, H. S. Köhler
56. Contrib. Plasma Phys. **39** 41-44: *Quasiparticle Boltzmann equation for nonlocal binary collisions*, K. Morawetz, P. Lipavský, V. Spička
57. Progress in Particle and Nuclear Physics, Vol. **42** 147-156: *Nonlocal kinetic equation and simulations of heavy ion reactions*, K. Morawetz, P. Lipavský, V. Spička

2000

58. Phys. Rev. **E 61** 2272-2280: *General response function for interacting quantum liquids*, K. Morawetz, U. Fuhrmann
59. Phys. Rev. **E 61** 2555-2558: *Quantum response of finite Fermi systems and the relation of Lyapunov exponent to transport coefficients*, K. Morawetz
60. Phys. Rev. **E 62** 4382-4386: *Momentum conservation and local field corrections for the response of interacting Fermi gases* K. Morawetz, Uwe Fuhrmann
61. Phys. Rev. **C 62** 044606-1-11: *Dynamical constraints on phase transitions*, K. Morawetz
62. Phys. Rev. **E 62** 6135-6149, errata: Phys. Rev. E 69, 029902(E): *Nonlinear relaxation field in charged systems under high electric fields*, K. Morawetz
63. Phys. Rev. **C 62** 064602-1-10: *Anomalous radial expansion in central heavy-ion reactions*, K. Morawetz, M. Płoszajczak, V.D. Toneev
64. Nuclear Inst. and Meth. **A 441** 40-43 *The influence of electron-electron collisions on the stopping power within dielectric theory*, A. Selchow, G. Röpke, K. Morawetz

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65. Phys. Rev. **C 63** 014609-1-7: *Transport with three-particle interactions*, K. Morawetz
66. Phys. Rev. **E 63** 020102R-1-4: *Short time dynamics with initial correlations*, K. Morawetz, M. Bonitz, V. G. Morozov, G. Röpke, D. Kremp
67. Phys. Rev. **C 63** 034619-1-13: *Mid-rapidity charge distribution in peripheral heavy ion collisions*, K. Morawetz, P. Lipavský, J. Normand, D. Cussol, J. Colin, B. Tamain
68. Phys. Rev. **C 63** 061602-1-5 rap. comm.: *Squeezing mode in nuclear collisions*, K. Morawetz, P. Lipavský
69. Phys. Rev. **C 64** 024613-1-13: *Correlations in many-body systems from two-time Greens functions*, S. Köhler, K. Morawetz
70. Phys. Rev. **E 64** 046107-1-7 rap. comm.: *Space-time versus particle-hole symmetry in quantum Enskog equations*, V. Spička, K. Morawetz, P. Lipavský
71. Annals of Physics **294** 135-164: *Retarded versus time-nonlocal quantum kinetic equations*, K. Morawetz, P. Lipavský, V. Spička

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72. Phys. Rev. **B 65** 012507-1-3: *Bernoulli potential at a superconductor surface*, P. Lipavský, J. Kolacek, J.J. Mares, K. Morawetz
73. Physica **A 305** 234-237: *Critical Tsallis exponent in heavy ion reaction*, K. Morawetz
74. Phys. Rev. **B 65** 144511-1-18: *Electrostatic potential in a superconductor* P. Lipavský, J. Kolacek, K. Morawetz, E.H. Brandt
75. Phys. Rev. **B 66** 075125-1-17, errata **B 88** 039905(E): *Dynamical local field, compressibility and frequency sum rules for quasiparticles*, K. Morawetz
76. Phys. Rev. **E 66** 022103-1-4: *Relation between classical and quantum particle systems*, K. Morawetz
77. Phys. Rev. **B 66** 134525-1-11: *Shifts of the nuclear resonance in the vortex lattice in $YBa_2Cu_3O_7$* P. Lipavský, J. Kolacek, K. Morawetz, E. H. Brandt
78. Phys. Rev. **B 66** 172508-1-4: *Electric field dependence of pairing temperature and tunneling* K. Morawetz
79. Phys. Rev. **B 66** 195333-1-5: *Formation of three-particle clusters in hetero-junctions and MOSFET structures* E. P. Nakhmedov, K. Morawetz

2003

80. Phys. Rev. **B 67** 115125-1-13: *Conductivity in quasi two-dimensional systems*, K. Morawetz
81. CHAOS **13** 572-577: *Bifurcations in the kinetic equation for interacting Fermi systems*, K. Morawetz
82. Physica **A 330** 475-501, errata: Physica **A 338**, 672: *Consequences of coarse grained Vlasov equations*, K. Morawetz, R. Walke

83. Phys. Rev. **B 67** 205106-1-7: *Exactly solvable model of three interacting particles in an external magnetic field*, E. P. Nakhmedov, K. Morawetz, M. Ameduri, A. Yurtsever, C. Radehaus

2004

84. Phys. Rev. **B 69** 024524-1-7: *Bernoulli potential in type-I and weak type-II superconductors: 1. Surface charge*, P. Lipavský, K. Morawetz, J. Koláček, J.J. Mareš, E.H. Brandt, M. Schreiber

85. Europhys. Lett. **67** 77–83: *Effective mass in quasi two-dimensional systems*, K. Morawetz

86. Phys. Rev. **B 70** 104518-1-7: *Bernoulli potential in type-I and weak type-II superconductors: 2. Surface dipole*, P. Lipavský, K. Morawetz, J. Koláček, J.J. Mareš, E.H. Brandt, M. Schreiber

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87. Phys. Rev. **B 71** 024526-1-7: *Bernoulli potential in type-I and weak type-II superconductors: 3. Electrostatic potential above the vortex lattice*, P. Lipavský, K. Morawetz, J. Koláček, J.J. Mareš, E. H. Brandt, M. Schreiber

88. Phys. Rev. **B 72** 014301-1-15: *Correlated two-particle scattering on finite cavities*, K. Morawetz, M. Schreiber, B. Schmidt, A. Ficker, P. Lipavský

89. Phys. Rev. **B 72** 174504-1-5: *Enhancement of pairing due to the presence of resonant cavities*, K. Morawetz, M. Schreiber, B. Schmidt, P. Lipavský

90. Phys. Rev. **B 72** 233203-1-4: *Femtosecond formation of collective modes due to mean-field fluctuations*, K. Morawetz, P. Lipavský, M. Schreiber

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91. Nanotechnology **17** 1568-1573: *Adsorption of PTCDA on a partially KBr covered Ag(111) substrate*, Loppacher, U. Zerweck, L. M. Eng, S. Gemming, G. Seifert, C. Olbrich, K. Morawetz, M. Schreiber

92. Phys. Rev. **B 73**, 052505-1-5: *Ginzburg-Landau theory of superconducting surfaces under the influence of electric fields*, P. Lipavský, K. Morawetz, J. Koláček, T. J. Yang

2007

93. Phys. Rev. **B 76**, 052502-1-4: *Vortex induced deformation of the superconductor crystal lattice*, P. Lipavský, K. Morawetz, J. Koláček, E. H. Brandt

94. Phys. Rev. **B 76**, 075116-1-8: *Phase diagram for interacting Bose systems*, K. Morawetz, M. Maennel, M. Schreiber

95. New J. Phys. **9**, 313:: *Fluctuations due to the nonlocal character of collisions*, K. Morawetz

2008

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97. Phys. Rev. **B 77**, 014506-1-6: *Contribution of the surface dipole to deformation of superconductors*, P. Lipavský, K. Morawetz, J. Koláček, E. H. Brandt, M. Schreiber

98. Eur. Phys. J. **B 62**, 311-317: *Reduction of surface coverage or magnetization due to geometrical steps*, K. Morawetz, C. Olbrich, S. Gemming
99. Phys. Rev. **B 77**, 184509-1-7: *Surface deformation caused by the Abrikosov vortex lattice*, P. Lipavský, K. Morawetz, J. Koláček, E. H. Brandt
100. Phys. Rev. **B 78** 054508-1-5: *Phase diagram and binding energy of interacting Bose gases*, M. Maennel, K. Morawetz, M. Schreiber, P. Lipavsky
101. Phys. Rev. **B 78** 054525-1-13: *Surface energy and magneto-capacitance of superconductors under electric field bias*, K. Morawetz, P. Lipavský, J. Koláček, E. H. Brandt
102. New J. Phys. **10** 103014-1-8: *Current without bias and diode effect in shuttling transport of nanoshafets*, K. Morawetz, S. Gemming, R. Luschtinetz, L. M. Eng, G. Seifert, A. Kenfack
103. Phys. Rev. **B 78** 174516-1-7: *Non-linear theory of deformable superconductors: Ginzburg-Landau description*, P. Lipavský, K. Morawetz, J. Koláček, E. H. Brandt

2009

104. Phys. Rev. **B 79**, 085405-1-12: *Transport and noise in organic field effect devices*, K. Morawetz, S. Gemming, R. Luschtinetz, T. Kunze, P. Lipavský, L. M. Eng, G. Seifert, V. Pankoke, P. Milde
105. New J. Phys. **11**, 023032-1-8: *Discontinuity of capacitance at the onset of surface superconductivity*, K. Morawetz, P. Lipavský, J.J. Mareš
106. Phys. Rev. **B 79**, 174510-1-6: *Boundary condition for the Ginzburg-Landau theory of the superconducting layer*, J. Koláček, P. Lipavský, K. Morawetz, E. H. Brandt
107. Eur. Phys. J. Special Topics **177**, 83-101: *The role of homophase and heterophase interfaces on transport properties in structured materials*, S. Gemming, T. Kunze, K. Morawetz, V. Pankoke, R. Luschtinetz, G. Seiffert

2010

108. Phys. Lett. **A 374**, 644-646: *Impossibility to describe repulsion with contact interaction*, K. Morawetz, M. Männel
109. Phys. Rev. **B 81**, 115401-1-7: *Modelling the transport through organic layers on a ferroelectric substrate*, T. Kunze, S. Gemming, V. Pankoke, K. Morawetz, R. Luschtinetz, G. Seiffert
110. New J. Phys. **12**, 033013-1-9: *Multiple condensed phases in attractively interacting Bose systems*, M. Männel, K. Morawetz, P. Lipavský
111. Phys. Rev. **E 81**, 036106-1-10: *Modeling the morphogenesis of brine channels in sea ice*, B. Kutschan, K. Morawetz, S. Gemming
112. Phys. Rev. **B 82** 092501-1-4: *Equivalence of channel-corrected T-matrix and anomalous propagator approach*, K. Morawetz

2011

113. J. Stat. Phys. **143**, 482-500: *Asymmetric Bethe-Salpeter equation for pairing and condensation*, K. Morawetz
114. Phys. Rev. **B 84**, 094529-1-13: *Self-consistent T-matrix theory of superconductivity*, B. Šopík, P. Lipavský, M. Männel, K. Morawetz, P. Matlock

2012

115. AIP Advances 2, 022146-1-6: *The effect of electromagnetic fields on a charged catenary*, K. Morawetz
116. Phys. Rev. **E 86**, 026302-1-9, errata Phys. Rev. **E 86**, 069904-1: *Theory of water and charged liquid bridges*, K. Morawetz
117. Phys. Rev. **B 86**, 085452-1-17: *Instability types at ion-assisted alloy deposition: From two-dimensional to three-dimensional nanopattern growth*, G. Abrasonis, K. Morawetz

2013

118. Phys. Rev. **A 87**, 053617-1-7: *Coexistence of phase transitions and hysteresis near BEC*, M. Männel, K. Morawetz, P. Lipavský
119. Phys. Rev. **E 88**, 022148-1-22: *Quasiparticle parametrization of meanfields, Galilei invariance and universal conserving response functions*, K. Morawetz
120. Europhysics Letters **104** 27005-1-6: *Terahertz out-of-plane resonances due to spin-orbit coupling*, K. Morawetz

2014

121. Eur. Phys. J. **B 87**, 8-1-10: *Stability of condensate in superconductors*, P. Lipavský, K. Morawetz, B. Šopík, M. Männel
122. Phys. Rev. **E 90**, 022711-1-7: *Dynamical mechanism of antifreeze proteins to prevent ice growth*, B. Kutschan, K. Morawetz, S. Thoms
123. Phys. Rev. **B 90**, 075303-1-9: *Universal short-time response and formation of correlations after quantum quenches*, K. Morawetz

2015

124. Phys. Rev. **B 92**, 245425-1-20, errata Phys. Rev. B93 (2016) 239904(E): *Quantum kinetic theory of spin-polarized systems in electric and magnetic fields with spin-orbit coupling: I. Kinetic equation and anomalous Hall and spin-Hall effects*, K. Morawetz
125. Phys. Rev. **B 92**, 245426-1-23: *Quantum kinetic theory of spin-polarized systems in electric and magnetic fields with spin-orbit coupling: II. RPA response functions and collective modes*, K. Morawetz

2016

126. Phys. Rev. **B 94**, 165415-1-16: *Dynamical charge and pseudospin currents in graphene and possible Cooper pair formation*, K. Morawetz

2017

127. Eur. Phys. J. **B 90**, 53,1-9: *Quantum currents and pair correlation of electrons in a chain of localized dots*, K. Morawetz
128. Eur. Phys. J. **E 40**, 25, 1-7: *Formation of brine channels in sea ice*, K. Morawetz, S. Thoms, B. Kutschan
129. Water 2017, 9(5), 353-360: *Reversed currents in charged liquid bridges*, K. Morawetz
130. Z. f. Naturforschung A, 72, 617-625: *Induced voltage in an open wire*, K. Morawetz, M. Gilbert, A. Trupp

131. Phys. Rev. **E 96**, 032106, 1-17: *Nonequilibrium thermodynamics with binary quantum correlations*, K. Morawetz

2018

132. Eur. Phys. J. **B 91**, 29, 1-7: *Width dependence of the structure factor and correlation energy of 1D electron wire at higher densities*, V. Ashokan, R. Bala, K. Morawetz, and K. N. Pathak

133. Phys. Rev. **B 97**, 155147-1-6: *Conditions where random phase approximation becomes exact in the high-density limit*, K. Morawetz, V. Ashokan, R. Bala, K. N. Pathak

134. Phys. Rev. **B 97**, 195142-1-6: *Correlational latent heat by nonlocal quantum kinetic theory*, K. Morawetz

2019

135. Phys. Lett. **A 383**, 1362–1363: *Chiral anomaly in Weyl systems: no violation of classical conservation laws*, K. Morawetz

136. Eur. Phys. J. **B 92**, 176-1-15: *Weyl systems: anomalous transport normally explained*, K. Morawetz

137. Phys. Rev. **B 99**, 205124-1-12: *Bose condensation of squeezed light*, K. Morawetz

2020

138. Phys. Rev. **B 101**, 075130-1-9: *Exact ground-state properties of the one-dimensional electron gas at high density*, Vinod Ashokan, Renu Bala, Klaus Morawetz, and K. N. Pathak

2021

139. Phys. Rev. **B 104**, 035149-1-14: *Ground-state properties of electron-electron biwire systems*, R. O. Sharma, N. D. Drummond, V. Ashokan, K. N. Pathak, K. Morawetz

140. Class. Quantum Grav. **38**, 205003, errata **40** (2022) 029501: *Consistent solution of Einstein-Cartan equations with torsion outside matter*, K. Morawetz

141. Phys. Status Solidi **B 2021**, 2100316: *Exploring anomalies by many-body correlations*, K. Morawetz

2022

142. Phys. Rev. **B 105**, 035415-1-18: *Interplay of viscosity and surface tension for ripple formation by laser melting*, K. Morawetz, S. Trinschek, E. L. Gurevich

143. Phys. Rev. **B 105**, 115140-1-10: *Electron correlation and confinement effects in quasi-one-dimensional quantum wires at high density*, A. Girdhar, V. Ashokan, N. D. Drummond, K. Morawetz, K. N. Pathak

2023

144. Eur. Phys. J. **B 96**, 95-1-17 *Extended quasiparticle Padé approximation for non-Fermi liquids*, K. Morawetz

2024

145. Modern Physics Letters A **39**, 2350192-1-10 *Time behaviour of Hubble parameter by torsion*, K. Morawetz
146. Phys. Rev. **B 109**, 205116-1-19: *Electronic quantum wires in extended quasiparticle picture*, K. Morawetz, V. Ashokan, K. N. Pathak, N. D. Drummond, G. Cuniberti
147. Pramana – J. Phys. **98**, 111: *Off-shell selfenergy for 1-D Fermi liquids*, K. Morawetz, V. Ashokan, K. N. Pathak, N. D. Drummond
148. Reviews in Physics, **13**, 100097: *Second-order nonlocal shifts of scattered wave-packets: What can be measured by Goos-Hänchen and Imbert-Fedorov effects ?*, K. Morawetz

1.5 Submitted papers

149. Nature Physics: *Huddle behaviour of emperor penguins*, K. Morawetz, F. Morawetz, D. Zitterbart
150. arXiv: 1806.11324: *Reply to the comment of P. Lipavsky*, K. Morawetz

1.6 Conference proceedings and reports**1992**

151. GSI-Jahresbericht *High energy density in matter produced by heavy ion beams 1992: Non-linear Transport in Plasmas due to High Electric Fields*, K. Morawetz, 68-69

1993

152. Proceedings of the International Workshop XXIII on Gross Properties of Nuclei and Nuclear Excitations, Hirschegg/Austria, 18.1.-23.1.1993, eds.: H. Feldmeier, p. 292-301: *Fluctuations and dynamical structure factor in hot nuclear matter*, K. Morawetz, G. Röpke
153. Proceedings of the XXI. International Conference on Phenomena in Ionized Gases (ICPIG) in Bochum 19.-24.9.1993, eds.: G. Ecker: p. 277-278: *Partially ionized Plasmas in high electric fields*, K. Morawetz, M. Schlanges, D. Kremp,
154. *ibid.* p. 227-228: *Plasmons and Instabilities in degenerate dynamically screened plasmas*, M. Bonitz, D.C. Scott, R. Binder, S.W. Koch, D. Kremp, K. Morawetz

1994

155. Europhysics conference, vol **18E**: XII. European Sectional Conference on the Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), 23-26.8.1994: p. 260-261: *A New Type Plasma Instabilities in High Electric Fields*, K. Morawetz, A. P. Jauho
156. *ibid.* p. 454-455: *Partially ionized Hydrogen Plasma in high electric fields- composition, transport and dielectric properties*, K. Morawetz

1995

157. Proceedings of the International Workshop XXIII on Gross Properties of Nuclei and Nuclear Excitations, Hirschegg/Austria, 16.1.-21.1.1995 p. 360 - 366: *Memory effects and cluster production in nonequilibrium*, K. Morawetz, G. Röpke
158. GSI-Jahresbericht 1994, *High Energy Density in Matter Produced by Heavy Ion Beams*, p. 62-62a: *Memory Effects and Virial Corrections in Nonequilibrium Dense Matter*

1996

159. Proceedings of CRIS '96 (1st Catania Relativistic Ion Studies), Acicastello, Italy, May 27-31, 1996, Edited by S.Costa, S.Albergo, A.Insolia, C.Tuvé, World Scientific, Singapore, 1996, p. 319-326: *Virial corrections to the Landau theory of Quasiparticle Transport*, K. Morawetz, V. Spička, P. Lipavský
160. GSI-Jahresbericht 1995, *High Energy Density in Matter Produced by Heavy Ion Beams*, p. 69: *Stopping power in nonideal plasmas*
161. *ibid.* p.70: *The Influence of Memory and Correlation on the Stopping Power*
162. *ibid.* p. 74: *Virial corrections to the Landau theory of Quasiparticle Transport*

1997

163. *Strongly Coupled Coulomb Systems*, Proceedings of the International Conference on Strongly Coupled Coulomb Systems, SCCS97, Boston, Ed. Kalman *et. al.*, Plenum Press New York, 1998: *Formation of binary correlations in plasma*, K. Morawetz, V. Spička, P. Lipavský
164. GSI-Jahresbericht 1996, *High Energy Density in Matter Produced by Heavy Ion Beams*, p. 99: *Debye-Onsager Relaxation effect beyond linear response and antiscreening in plasma*
165. *ibid.* p. 100: *Formation of correlations in plasma at short time scales*
166. *ibid.* p. 101: *The consistent kinetic equation and the equation of state of nuclear matter*

1998

167. Proceedings of CRIS '98 (2nd Catania Relativistic Ion Studies), Acicastello, Italy, June 8.-12., 1998, Edited by S.Costa, S.Albergo, A.Insolia, C.Tuvé, World Scientific, Singapore, 1998, p. 268-278 : *Formation of correlations at Short Time Scales and Consequences on Interferometry Methods*, K. Morawetz, H.S. Koehler
168. GSI-Jahresbericht 1997, *High Energy Density in Matter Produced by Heavy Ion Beams*, p. 101: *Dielectric properties of storage ring plasmas*, A. Selchow, K. Morawetz
169. *ibid.* p. 102: *Formation of correlations in strongly coupled plasmas*, K. Morawetz, V. Spička, P. Lipavský

1999

170. Proceedings of the international Workshop XXVII on Gross Properties of Nuclei and Nuclear Excitations, Hirschegg (Austria), January 17 - 23: *Simulation of heavy ion reactions with nonlocal kinetic equations*, K. Morawetz, V. Spička, P. Lipavský, Ch. Kuhrts
171. Proceeding of Riken Symposium and workshop on selected topics in nuclear collective excitation (NUCOLEX99), Japan, 20.3.-24.3.: p. 90-92: *ISGDR - bulk or surface or mode ?*, K. Morawetz, U. Fuhrmann
172. *ibid.* p. 93-95: *Damping of IVGDR - Fermi liquid or Fermi gas ?*, K. Morawetz, U. Fuhrmann, M. Vogt
173. GSI-Jahresbericht 1998, *High Energy Density in Matter Produced by Heavy Ion Beams*, p. 72: *Short time dynamics with initial correlations*, K. Morawetz
174. Proceedings of XXIV International conference on Phenomena in Ionized Gases ICPIG, Warsaw, Poland 11.6.-16.6., J. Tech. Phys. **41**,1 (2000) p. 361-375: *Nonlocal transport and correlations in strongly interacting Fermi systems*, K. Morawetz, P. Lipavský, V. Spička
175. Proceedings of the International Workshop: "Kadanoff-Baym Equations - Progress and Perspectives for Many-Body Physics" Rostock, September 20-24 1999, World Scientific, Singapore: p. 45-55: *Nonlocal kinetic theory*, K. Morawetz, P. Lipavsky, and V. Spicka
176. *ibid.* p. 63-81: *Approximative constructions of the double-time correlation function from the single-time distribution function*, P. Lipavsky, V. Spicka, and K. Morawetz
177. *ibid.* p. 100-110: *Space-time vs. particle-hole symmetries of scattering integrals*, V. Spicka, P. Lipavsky, and K. Morawetz
178. *ibid.* p. 353-363: *Relativistic Transport Equations with Generalized Mass Shell Constraints*, L. Mornas, and K. Morawetz

2000

179. Journal de physique IV, vol 10: Proceedings of the International Conference on Strongly Coupled Coulomb Systems, St. Malo, France 4.9.-10.9.1999, Ed. C. Deutsch, B. Jancovici, M.-M. Gombert: -Pr5-175-178: *Nonlinear current in high electric fields*, K. Morawetz
180. *ibid.* pr5-179-182: *Nonlocal kinetic theory, I. Formation of correlations*, K. Morawetz, P. Lipavský, V. Spička
181. *ibid.* pr5-183-186: *Nonlocal kinetic theory, II. Transport and virial corrections*, K. Morawetz, P. Lipavský, V. Spička
182. GSI-Jahresbericht 1999, *High Energy Density in Matter Produced by Heavy Ion Beams*, p. 92: *Momentum conservation and local field corrections for the response of interacting Fermi gases*, K. Morawetz, U. Fuhrmann
183. *ibid.* p. 93: *Nonlinear current in high electric fields beyond linear response*, K. Morawetz

2001

184. Proceedings of the XXXIX. International Winter Meeting on Nuclear Physics, Bormio (Italy), January 22-27, nucl-th/0103025, Ricerca Scientifica ed Educatione Permanente Supplemento N. 117, ed. I. Iori and A. Moroni, p. 103-118: *Non-local kinetic simulation of heavy ion collisions*, K. Morawetz

185. Proceedings of the International School and Workshop on Non Extensive Thermodynamics and physical applications, Cagliari (Italy), May 23-27, nucl-th/0103025: *Critical Tsallis exponent in heavy ion collisions*

2007

186. International Journal of Modern Physics B, 21 (2007) 2348-2361, Proceedings of the International Workshop on Condensed Matter Theories (CMT30), Dresden, Germany: *The concept of correlated density and its application*, 14 pages, K. Morawetz, P. Lipavský, J. Koláček, E. H. Brandt, M. Schreiber
187. Series on Advances in Quantum Many-Body Theories, ed. R. F. Bishop, C. E. Campbell, J. W. Clark and S. Fantoni, (World Scientific): *The correlated density and the Bernoulli potential in superconductors*, 4 pages, K. Morawetz, P. Lipavský, J. Koláček

2024

188. 26.9.–27.9.2022, International Conference COSMOLOGY ON SMALL SCALES, Prague, Czech Republic: *Cosmological consequences of torsion*, K. Morawetz, Institute of Mathematics Czech Academy of Sciences, Prague 2024

2. LIST OF TALKS

2.1 Oral conference contributions and talks at colloquia

* invited talks, talks within seminars of working group not counted (2-3/year)

1987

1. 18.12.: Final talk of study stay in Jerewan : *Equivalence of statistical ensembles (russ)*

1988

2. Januar: Seminar of theoretical physics department: *Probleme der Äquivalenz statistischer Ensembles für das Kac-Potential*
3. Oktober: Workshop *Vielteilchentheorie* in Ahrenshop: *Herleitung kinetischer Gleichungen in starken elektrischen Feldern*

1989

4. April: Hiddensee-Seminar Plasmaphysik: *Feldabhängige kinetische Gleichungen und deren approximative Lösung*
5. Mai: Güstrow-Seminar: *Herleitung kinetischer Gleichungen*

1990

6. Oktober: Seminar of theoretical physics department: Vortrag: *Kinetische Theorie von Wasserstoffplasmen in starken elektrischen Feldern*

1991

7. April: Colloquium of physics department Rostock: *Abschirmung in partiell ionisierten H-Plasmen in starken elektrischen Feldern*
8. 4.6.-6.6.: SIS-meeting of nuclear physics in Güstrow: *Kinetische Theorie von Nukleon-Meson-Systemen*
9. 24.9.-25.9.:* Symposium of theoretical nuclear - and many-body physics in Heidelberg: *Kinetische Theorie von relativistischen Vielteilchensystemen*

1992

10. 23.4.:* Kernfysisch Versneller Instituut in Groningen: *Kinetic theory of relativistic nucleon-meson-systems*
11. 29.4.: Colloquium of physics department Rostock: *Stoßionisation von nichtidealen Plasmen in starken elektrischen Feldern*
12. 22.5.-24.5.: SIS meeting of nuclear physics in Rostock: *Nichtideale Plasmen in starken elektrischen Feldern*

13. 3.12.-5.12.: Workshop Heisenberg-Landau program in Heidelberg: *Density fluctuations and phase transitions*

1993

14. 30.1. - 4.2.: *High Energy Density in Matter*, International Workshop, Hirschegg, Kleinwalsertal, Österreich: *Collective Excitation in partially ionized H-Plasma due to high electric fields*
15. 4.6.-6.6.: SIS-meeting at Burg Rieneck (Rauischholzhausen VI): *Anregungen und Instabilitäten in korrelierter Kernmaterie in der Nähe des Flüssig - Gas Phasenüberganges*
16. 26.9.-1.10.: VII. Workshop for non-ideal plasmas (IWPNI), Markgrafenheide: *Plasma instabilities in high electric fields*
17. 8.11.:* Colloquium at J. W. Goethe Universität Frankfurt: *Plasma instabilities due to high electric fields*
18. 9.11.:* Colloquium at TU München - Garching: *In - medium relativistic kinetic theory and nucleon-meson systems*

1994

19. 10.1.-12.1.: First workshop on nonequilibrium physics at short time scales: *Retardation effects in giant resonances*
20. 28.2.-2.3.: Heidelberg-Rostock Workshop: *Memory effects in Giant Resonances*

1995

21. 10.1.-12.1.: 144. WE - Heraeus Seminar : Second workshop on nonequilibrium physics at short time scales: *Memory Effects and virial corrections in dense systems*
22. 10.3.-13.3.: Workshop *Hadronic Matter* in Oberflockenbach: *Time-dependent particle production*
23. May: Tennessee Technology University: *Memory effects and virial corrections in nuclear matter*
24. June: University of Arizona: *Memory effects and bound states in nuclear matter*
25. July: NSCL - Michigan State University: *Memory effects and deuteron formation*
26. 16.10.-20.10.:* 7. workshop on Heavy Ion driven Fusion in Madrid: *Memory effects and stopping power in nonideal plasmas*

1996

27. 28.1. - 2.2.:* *High Energy Density in Matter*, International Workshop, Hirschegg, Kleinwalsertal, Österreich: *Stopping power in nonideal plasmas*
28. 5.2.: colloquium at Universität Siegen : *Quantum transport equation and the application to nuclear matter*
29. 28.2.-1.3.: Third workshop on nonequilibrium physics at short time scales, Rostock: *The contribution of density fluctuations to the damping of giant resonances*
30. 1.4.-5.4.:* International Workshop on Collective effects in Ultra-Cold Atomic Gases, Les Houches: *Virial corrections in the Landau theory of quasiparticle transport*

31. 27.5.-31.5.:* CRIS '96 conference, 1 st Catania Relativistic Ion Studies, Acicastello, Italy: *Virial corrections to the Landau Theory of quasiparticle damping*
32. 19.9.-21.9.: Workshop: Strong interactions at finite temperature, Rostock, Germany: *In-medium transport theory for spin polarized systems*
33. 8.12.-20.12.: Workshop: Giant resonances in nuclei, Trento, Italy: *Mutual dependence of fluctuations and collisions and its influences on the damping of giant resonances*

1997

34. 3.2. - 7.2.:* *High Energy Density in Matter*, International Workshop, Hirschegg, Kleinwalsertal, Austria: *Nonlinear Debye-Onsager relaxation effect*
35. 28.5.-31.5.:* Space-time workshop at NSCL (Michigan, U.S.A.): *Transport theory with non-local corrections*, K. Morawetz, P. Lipavsky, V. Spicka
36. 10.6.:* Colloquium at SUNY (Stony Brook, U.S.A.): *Influence of correlations and density fluctuations on the damping of giant resonances*
37. 8.-10.6.: 2 Talks in theory group at SUNY (Stony Brook, U.S.A.): *Virial corrections to the Landau theory of quasiparticle transport*
38. 22.9.-25.9.:* 8th International Workshop on Atomic Physics for Ion-Driven Fusion, Heidelberg: *Formation of correlations in strongly coupled plasma*, K. Morawetz, V. Spička, P. Lipavský
39. 16.-18.10.:* II Meeting of the ISO-DYN* collaboration: *New collective mode due to collisional coupling in asymmetric nuclear matter*
40. 30.10.:* Colloquium at University of Bremen: *Virial corrections to the kinetic theory of dense Fermi systems*

1998

41. 1.2. - 7.2.: *High Energy Density in Matter*, International Workshop, Hirschegg, Kleinwalsertal, Austria: *Screening and Relaxation effect in High Fields*
42. 11.5.-16.5.: Topical conference on giant resonances in Varenna, Italy: *New collective mode due to collisional coupling*, K. Morawetz, U. Fuhrmann, R. Walke
43. 8.6.-12.6.:* CRIS '98 conference, 2nd Catania Relativistic Ion Studies, Acicastello, Italy *Formation of correlations and consequences on HBT methods*
44. 14.6.-19.6.:* Gordon research conference, New London, U.S.A.: *Transport theory with non-local corrections and consequences for HI reactions and the EOS*
45. 14.6.-19.6.:* Talk at NSRL, University of Rochester, U.S.A.: *Formation of correlations at short time scales*
46. 6.9.-11.9.:* International workshop on the physics of nonideal plasmas, PNP9, Rostock, 1998: *Nonlocal kinetic equation for strongly interacting Fermi systems*, K. Morawetz, P. Lipavský, V. Spička
47. 17.9.-27.9.:* International School of Nuclear Physics, 20th course, Heavy Ion Collisions from Nuclear to Quark Matter, Erice 1998: *Nonlocal corrections to BUU simulations and a consistent kinetic equation*, K. Morawetz

48. 9.11.:* Colloquium at University of Osnabrück: *Nichtlokale kinetische Theorie*

1999

49. 26.1.:* Colloquium at University of Tübingen: *Size and memory of nucleons in heavy ion reactions*

50. 20.3.-24.3.:* Riken Symposium and workshop on selected topics in nuclear collective excitation (NUCOLEX99), Japan:
-*Collective modes in asymmetric nuclear matter*

51. -*Damping of IVGDR in a combined surface and collisional model*, U. Fuhrmann, K. Morawetz, M. Vogt

52. 3.6.:* Institut de Physique Nucleaire, Orsay, France: *Nonlocal kinetic theory*

53. 8.6.:* LPC-ISMRA, Caen, France: *Nonlocal transport and simulation of heavy ion collisions*

54. 11.6.-16.6.:* XXIV International conference on Phenomena in Ionized Gases ICPIG, Warsaw, Poland: *Nonlocal transport and correlations in strongly interacting Fermi systems*

55. 21.7.:* Colloquium TU München: *Nonlocal kinetic theory for dense Fermi systems*

56. 23.9.:* International Workshop: "Kadanoff-Baym Equations - Progress and Perspectives for Many-Body Physics" Rostock, 20-24.9. 1999: *Nonlocal kinetic theory*, K. Morawetz, P. Lipavsky, and V. Spicka

57. 12.11.: GANIL Seminar: *Nonlocal Kinetic Theory and Simulations of Nuclear Collisions*

2000

58. 11.2.: INDRA Seminar: *Dynamical remarks on phase transitions*

59. 10.3.:* V. INDRA workshop: *Two fragmentation procedures in heavy ion collisions around Fermi energy*

60. 31.5.: Workshop on nonequilibrium Physics at short time scales, Dresden: *Transport in high electric fields*

61. 9.6.: Workshop on nonequilibrium Physics at short time scales, Dresden: *Formation of correlations in plasma and nuclear matter*

2001

62. 26.1.:* XXXIX. International Winter Meeting on Nuclear Physics, Bormio (Italy), January 22-27: *Mid-rapidity distribution in heavy ion collisions*, K. Morawetz

63. 26.5.:* International School and Workshop on Non Extensive Thermodynamics and physical applications, Cagliari (Italy), May 23-27: *Anomalous radial expansion in central heavy ion collisions*

64. 8.11.:* Strong nonequilibrium matter, Workshop on quantum transport in relativistic heavy ion physics, Nov 8-10, Giessen (Germany): *Nonlocal kinetic theory*

2002

65. 17.04.:* University Chemnitz: *130 years Boltzmann equation- from classical to nonlocal quantum transport*

66. 16.05.:* MPI Physik chemischer Stoffe, Theory colloquium: *Electric fields in superconductors*

67. 23.05.* TU Dresden, Theory colloquium: *130 years Boltzmann equation- from classical to nonlocal quantum transport*
68. 27.05.: Kernforschungszentrum Rossendorf, Dresden, colloquium: *Collective modes in asymmetric nuclei*
69. 15.08.* Workshop on “Microscopic Chaos and Transport”, Dresden, 5.-24.8.02: *130 years Boltzmann equation- from classical to nonlocal quantum transport*
70. 19.08.* International Workshop: “ Kadanoff-Baym Equations - Progress and Perspectives for Many-Body Physics II” Dresden, 19.-23.8. 2002: *130 years Boltzmann equation- from classical to nonlocal quantum transport*, K. Morawetz, P. Lipavsky, and V. Spicka
71. 27.08.: Leibniz Institute for Solid State and Materials Research Dresden, Theory seminar: *Electric fields in superconductors*

2003

72. 28.02.: Workshop “Korrelationstage 2003” Dresden, 24.02.-28.02.2003: *Nonlocal kinetic theory - a method to simulate strong correlations*
73. 09.05.: Workshop “Offshell Effects in Quantum Transport ” Dresden, 4.05.-18.05.2003: *What is hidden in the memory ? To quantum kinetic theory*
74. 16.09.* Condensed Matter Theory XXVII, 15.09.-20.09.2003 Toulouse: *Nonlocal kinetic theory - a method to simulate strong correlations*, K. Morawetz, P. Lipavsky
75. 21.09.* International School of Nuclear Physics, 16.-24.09.2003 Erice: *Simulation of heavy ion reactions by nonlocal kinetic theory*

2004

76. 19.01.*: World Consensus Initiative Workshop “Dynamics and Thermodynamics with nucleonic degrees of freedom” Catania, 19.01.-24.01.2004: *Testing of virial corrections by nonlocal kinetic simulations*
77. 20.01.*: World Consensus Initiative Workshop “Dynamics and Thermodynamics with nucleonic degrees of freedom” Catania, 19.01.-24.01.2004: *Dynamical signals and constraints on phase transitions*
78. 18.10.*: University Frankfurt, Theory colloquium: *Nonlocal kinetic theory - a method to simulate strong correlations*

2006

79. 01.02.: Low-energy seminar, Departement of Physics, University of Arizona, Tucson, USA: *What is memory in quantum transport ?*
80. 05.02.-10.02.* Gordon research conference, Buellton, CA New London, U.S.A., Ultrafast Phenomena in Cooperative Systems: *Short-time formation of collective modes and correlations*
81. 05.06.-10.06.: International workshop on condensed matter theories (CMT30), Dresden, Germany: *Birth of a quasiparticle - What is hidden behind memory effects ?*
82. 18.12.: Seminar Forschungszentrum Dresden-Rossendorf *Kinetic theory for systems with strong correlations*

2007

83. 22.5.: Seminar at Leibniz Institute for Solid State and Materials Research Dresden: *Bernoulli potentials in superconductors*
84. 7.6.: Solid state physics Colloquium at Max Planck Institute for Chemical Physics of Solids: *Bernoulli potentials in superconductors*
85. 4.7.: Seminar at University Leipzig: *Bernoulli potentials in superconductors*
86. 9.7.-13.7.: International workshop on Many-body theory of inhomogeneous superfluids, Centro di Ricerca Matematica Ennio De Giorgi, Scuola Normale Superiore, Pisa: *The Correlated Density and its Application to Superconductors*
87. 16.7.-20.7.: 14th International Conference on Recent Progress in Many Body Theories (RPMBT14), Barcelona: *The Correlated Density and its Application to Superconductors*
88. 26.9.: Seminar at IAPP Dresden: *How electric fields help to understand superconductivity*

2008

89. 29.4.-1.5.:* 1st Bilateral Estonian-German Workshop on Strong Nonlinear Vibronic and Electronic Interactions in Solids, Tartu: *Surface deformation and magnetocapacitance of superconductors*
90. 14.8.: Interviewtalk for Professorship at University College Dublin: *Nonlocal kinetic theory*
91. 29.9.: International Center for Condensed Matter Physics, Brasília: *Quantum Kinetic Theory beyond Quasiparticle Picture - Bernoulli potential in Superconductors*
92. 26.11.: Interviewtalk for Professorship at University of Loughborough: *Quantum Kinetic Theory beyond Quasiparticle Picture - Bernoulli Potential in Superconductors*

2009

93. 05.02.: Interviewtalk for Professorship at University of Düsseldorf: *Quantum Kinetic Theory beyond Quasiparticle Picture*
94. Workshop on Routes to Superconductivity at Ambient Conditions, 13.4.-24.4.2009, ICCMP, Brasília:
Correlated density and superconductivity
95. *Electric fields in superconductors and jump of capacitance*
96. 03.10.: Novel approaches to pairing and condensation, MIPPKS, 2.10.-4.10.2009: *Equivalence of channel-corrected T-matrix and anomalous propagator approach*
97. 17.12.: Inaugural Lecture Münster University of Applied Sciences: *Das Rätsel Zeit aus physikalischer Sicht*

2010

98. 5.3. Workshop on Physics of Computer technologies, Natal, 1.3.-6.3.2010: *Femtosecond Transport in OFETs*
99. 28.5.-5.6.10 International Symposium on Sea Ice in the physical and biological system, Tromsø: *Formation of brine channels in sea ice*, B. Kutschan, K. Morawetz, S. Thoms

100. 28.10.-30.10.10 IGS Nordic Branch meeting in Copenhagen: *Brine channel formation in sea ice - Turing structures or phase field pattern?*, B. Kutschan, K. Morawetz, S. Thoms

2011

101. 6.9.2011 International Institute of Physics (Natal): *Asymmetric Bethe-Salpeter equation for pairing and condensation: The many phases of interacting Bose- and Fermi gases*, K. Morawetz

2012

102. 22.4.-27.4. European Geosciences Union General Assembly , Vienna: *Thermodynamic treatment of morphogenesis of brine channels in sea ice*, S. Thoms, B. Kutschan, K. Morawetz, S. Gemming
103. 13.09. International Institute of Physics (Natal): *Nonlocal quantum kinetic theory - a method to simulate strong correlations*, K. Morawetz
104. 29.10.-1.11. Multiscale Complex Fluid Flows and Interfacial Phenomena, MPIPES Dresden: *Classical theory of water and charged liquid bridges*, K. Morawetz

2013

105. 15.04.-19.04.: Workshop on Spin-Orbit Interaction for Light and Matter Waves, MPIPES Dresden, Germany - *Quantum transport and response to electric fields in non-Abelian systems with spin-orbit coupling and magnetic fields*, K. Morawetz
106. 05.09. International Institute of Physics (Natal): *Universal conserving response function and dynamics of correlated classical and quantum systems*, K. Morawetz

2014

107. 18.09. International Institute of Physics (Natal): *Transport in non-Abelian systems with spin-orbit coupling and magnetic fields*, K. Morawetz
108. 05.10.-10.10. CECAM conference, High Performance Models for Charge Transport in Large Scale Materials Systems, Bremen, Germany: *Nonlocal kinetic theory - a method to simulate correlated systems*

2015

109. 03.03.-06.03. ASY-EOS 2015 International Workshop on Nuclear Symmetry Energy and Reaction Mechanisms, Piazza Armerina, Sicily, Italy: *Nonlocal quantum kinetic theory and dynamical constraints on phase transitions*
110. 23.03.-25.03. Conference of the Middle European Cooperation in Statistical Physics (MECO40), Esztergom, Hungary: *Nonlocal quantum kinetic theory and the formation of correlations*
111. 29.06.-02.07. 5th International Symposium on Nuclear Symmetry Energy (NuSYM15), Krakow, Poland: *Damping of giant resonances in symmetric and asymmetric nuclear matter*
112. 6.09.-11.09. 26th International Congress on Polar Research, Munich, Germany: *Brine channel distribution in sea ice*
113. 28.9.-2.10. Int. conference Korrelationstage, Dresden, Germany: *Transport in electric and magnetic fields with spin-orbit coupling*
114. 20.11. Charles University Prague, Czech Republic : *Kinetic theory electrons in electric and magnetic fields with spin-orbit coupling*

2016

115. 7.06.-9.06. International conference on nonlinear mathematics and physics, Sevilla, Spain:
- *Dynamical mechanism of antifreeze proteins to prevent ice growth*, K. Morawetz, B. Kutschan,
S. Thoms
116. -*Formation of brine channels in sea-ice as habitat for micro-algae*, K. Morawetz, B. Kutschan,
S. Thoms

2017

117. 20.6.-23.6. 14th Granada Seminar Quantum Systems In and Out of Equilibrium: Fundamen-
tals, dynamics and applications, Universidad de Granada, Spain: *Nonlocal quantum kinetic
theory to simulate strong correlations*, K. Morawetz
118. 10.9.-30.9.: NPSTS17 Finite systems in Nonequilibrium: From quantum quench to the for-
mation of strong correlations, Natal, Brazil:
-14.9. *Transport in SU(2) structures*
119. -15.9. *Correlations in one-dimensional systems*
120. -19.9. *Nonlocal kinetic theory for binary quantum correlations*
121. -27.9. *Hysteresis behavior near BEC phase transition*

2018

122. 13.08.-16.08. SPINOS VII. International Meeting on Spins in Organic Semiconductors, Halle
(Saale), Germany: *Anomaly transport in graphene and Weyl systems normally explained*
123. 03.09.-07.09. Flatlands Beyond Graphene 2018, Leipzig: *Anomaly transport in graphene
and Weyl systems normally explained*
124. 17.09.-21.09. Ninth International Workshop DICE2018, Castiglioncello (Italy), Spacetime -
Matter - Quantum Mechanics: *Nonlocal quantum kinetic theory and dynamical constraints
on phase transitions in the early universe*
125. 26.09.-29.09. International Conference COSMOLOGY ON SMALL SCALES 2018: Dark
Matter Problem and Selected Controversies in Cosmology, Prague, Czech Republic: *Bose
condensation of weakly interacting massLESS particles*

2019

126. 04.07.- 06.07. Workshop, Correlations and transport in one-dimensional structures, Dres-
den: *Anomaly transport*

2021

127. 07.04. Colloquium at IIP, Natal, Brazil: *Anomal transport in spin-orbit and Weyl systems-
normally explained*
128. 27.09.-2.10. SCES 2020 - International Conference on Strongly Correlated Electron Sys-
tems, (online), Brazil: *Anomal transport in spin-orbit and Weyl systems- normally explained*

2022

129. 21.9.–24.9.2022, International Conference COSMOLOGY ON SMALL SCALES, Prague, Czech
Republic: *Exact solution of Einstein-Cartan equations with torsion*

2024

130. 26.9.–27.9.2022, International Conference COSMOLOGY ON SMALL SCALES, Prague, Czech Republic: *Cosmological consequences of torsion*

2.2 Oral contributions at DPG spring meetings**1992**

131. 24.2.-28.2.: DPG spring meeting of nuclear physics section in Salzburg: *Relativistic kinetic theory and nucleon-meson-systems*

1993

132. 23. - 26.3.: DPG - spring meeting of nuclear physics section in Mainz: *Density fluctuations in dense hot nonequilibrium matter*

1994

133. 7.3.-11.3.: DPG spring meeting of plasma physics section in Erlangen: *Suppression of the effect of collisions due to memory and non-markovian behaviour*

1995

134. 13.3.-17.3.: DPG spring meeting of nuclear physics section in Köln: *Memory-effects and bound states in nuclear matter*

135. 20.2.-23.2.: DPG spring meeting of plasma physics section Innsbruck: *Memory effects and virial corrections in nonideal plasmas*

1996

136. 18.3.-21.3.: DPG spring meeting of plasma physics section Rostock:
-*Memory effects and virial corrections in nonideal plasmas*

137. -*Nonideal plasmas under the influence of strong fields*

138. -*Stopping power in nonideal degenerated plasmas*

139. 25.3.-29.3.: DPG spring meeting of nuclear physics section in Stuttgart:
-*Generalized quantum transport with memory effects and short time behaviour in heavy ion reactions*

140. -*Two particle correlations in high Coulomb fields*

141. -*Critical density fluctuations and the damping of giant resonances*

1997

142. 3.3.-6.3.: DPG spring meeting of plasma physics section Mainz:
-*Virial corrections to the Landau theory of quasiparticle transport*

143. -*Der Aufbau von Korrelationen in dichten Plasmen*

144. -*Stopping Power in starken Feldern*

145. *-Zeitabhängige Korrelationen in dichten Plasmen*
146. *-Untersuchung zum Schottky-Rauschen in Speicherringen*, A. Selchow, K. Morawetz, G. Röpke
147. 24.2.-28.2.: DPG spring meeting of nuclear physics section in Göttingen:
-Virial corrections to the Landau theory of quasiparticle transport
148. *-Dissipation and entropy production in coarse grained Vlasov equations*, K. Morawetz, P.G. Reinhard, R. Walke
149. *-Formation of correlations and energy-conservation at short time scales*, K. Morawetz, H.S. Koehler
150. *-Vlasov simulations for highly excited nuclei*, R. Walke, K. Morawetz, G. Röpke
151. *-Collective excitations in hot nuclear matter*, U. Fuhrmann, K. Morawetz, G. Röpke

1998

152. 9.3.-13.3.: DPG spring meeting of plasma physics section Bayreuth:
-Correlation dynamics in plasmas at short time scales, M. Bonitz, K. Morawetz
153. *-Nonlocal corrections to the Boltzmann equation for dense plasmas*, K. Morawetz, V. Spička, P. Lipavský
154. 9.3.-13.3.: DPG spring meeting of short time physics section Bayreuth:
-Formation of correlations in plasmas at short time scale, K. Morawetz, V. Spička, P. Lipavský
155. 16.3.-20.3.: DPG spring meeting of nuclear physics section in Bochum:
-Nonlocal corrections to the Boltzmann equation for dense Fermi systems, K. Morawetz, V. Spička, P. Lipavský
156. *-Giant octupole resonance simulations*, R. Walke, K. Morawetz, P. Schuck, U. Fuhrmann
157. 16.3.-20.3.: DPG spring meeting of atomic physics section in Konstanz:
-Dielectric function for storage-ring plasmas, A. Selchow, K. Morawetz, G. Röpke

1999

158. 15.3.-19.3.: DPG spring meeting of atomic physics section in Heidelberg:
-Berechnung der Kühlkraft des Elektronenkühlers über dielektrische Funktionen, A. Selchow, K. Morawetz, G. Röpke
159. 15.3.-19.3.: DPG spring meeting of short time physics section in Heidelberg:
-Aufbau von Korrelationen in Plasmen auf kurzen Zeitskalen, K. Morawetz
160. 15.3.-19.3.: DPG spring meeting of plasma physics section Heidelberg:
-Vergleich statistischer und molekulardynamischer Resultate zu Kurzzeit - Relaxation in dichten Plasmen, K. Morawetz, M. Bonitz, G. Zwicknagel

2001

161. 19.3.-23.3.: DPG spring meeting of nuclear physics section Erlangen:
-Dynamical constraints on phase transitions, K. Morawetz
162. *-Mid-rapidity charge distribution in peripheral heavy ion collisions*, K. Morawetz, P. Lipavský, J. Normand, D. Cussol, J. Colin, B. Tamain

163. 2.4.-6.4.: DPG spring meeting of plasma physics section Berlin:
-*On a correspondence between classical and quantum particle systems*, K. Morawetz

164. -*Response function for interacting quantum liquids* K. Morawetz, U. Fuhrmann

2002

165. 11.3.-15.3.: DPG spring meeting of solid state physics section Regensburg:
-*Electric field dependence of pairing temperature and tunneling*, K. Morawetz

166. -*Space-time versus particle-hole symmetry in quantum Enskog equations*, K. Morawetz, V. Špička, P. Lipavský

2003

167. 24.3.-28.3.: DPG spring meeting of solid state physics section Dresden:

-*Retarded versus time-nonlocal quantum kinetic equations*, K. Morawetz, P. Lipavský, V. Špička

168. -*Shifts of the nuclear resonance in the vortex lattice in $YBa_2Cu_3O_7$* , K. Morawetz, P. Lipavský, J. Kolaček, E. H. Brandt

169. -*Formation of three-particle clusters in hetero-junctions and MOSFET structures*, K. Morawetz, E. Nakhmedov

2004

170. 08.3.-12.3.: DPG spring meeting of solid state physics section Regensburg:

-*Bernoulli potential in type-I and weak type-II superconductors*, K. Morawetz, P. Lipavský, J. Kolaček, J.J. Mares, E.H. Brandt, M. Schreiber

171. -*Consequences of coarse graining Vlasov equations*, K. Morawetz, R. Walke

2005

172. 04.3.-09.3.: DPG spring meeting Berlin:

-*Electric fields above the surface of superconductors*, K. Morawetz, P. Lipavský, J. Kolaček, J. Mares, E.H. Brandt, M. Schreiber

173. -*Correlations in many-body systems with two-time Green's functions*, K. Morawetz, H.S. Köhler

174. -Hauptvortrag: *Der Quantum-Zenon Effekt und seine Implikation für die Zeit* K. Morawetz

175. -*Quantum two-particle problem in finite systems*, B. Schmidt, K. Morawetz, M. Schreiber, A. Ficker, P. Lipavský

2006

176. 27.3.-31.3.: DPG spring meeting Dresden:

-*Enhancement of pairing due to the presence of resonant cavities*, K. Morawetz, B. Schmidt, M. Schreiber, P. Lipavský

177. -*What is hidden behind memory effects ?*, K. Morawetz, P. Lipavský

178. -*Moleculardynamical simulation with effective quantum potentials*, C. Olbrich, K. Morawetz

179. -*Femtosecond formation of collective modes due to meanfield fluctuations*, K. Morawetz, B. Schmidt, M. Schreiber, P. Lipavský

180. -*Reduction of surface coverage due to geometrical steps*, C. Olbrich, K. Morawetz, S. Gemming, M. Schreiber

181. -*High resolution nc-AFM investigation of the adsorption of PTEDA on ultrathin KBr films*, C. Loppacher, U. Zerweck, L.M. Eng, S. Gemming, G. Seifert, C. Olbrich, K. Morawetz, M. Schreiber

2007

182. 26.3.-30.3.: DPG spring meeting Regensburg:
-*Vortex induced deformation of the superconductor crystal lattice*, K. Morawetz, P. Lipavský, J. Koláček, E. H. Brandt
183. -*Ginzburg-Landau theory of superconducting surfaces under electric fields*, K. Morawetz, P. Lipavský, J. Koláček, E.H. Brandt, T. Yang
184. -*Phase diagram for interacting Bose systems*, M. Maennel, K. Morawetz, M. Schreiber

2008

185. 24.3.-28.3.: DPG spring meeting Berlin:
-*Surface superconductivity and capacitance of superconductors under electric and magnetic fields*, K. Morawetz, P. Lipavský, J. Koláček, E. H. Brandt, M. Schreiber
186. -*Dominant motion vs. localization in quasiperiodic chains*, K. Morawetz, M. Schreiber
187. -*The chemical potential for the inhomogeneous electron liquid in terms of its kinetic and potential parts with special consideration of the surface potential step and BCS-BEC crossover*, K. Morawetz, N. H. March, R. H. Squire
188. -*Phase diagram for interacting Bose systems*, M. Maennel, K. Morawetz, M. Schreiber

2009

189. 23.3.-27.3.: DPG spring meeting Dresden:
-*Transport beyond the Fermi liquid picture of quasiparticles*, K. Morawetz
190. -*Discontinuity of capacitance at the onset of surface superconductivity*, K. Morawetz, P. Lipavský, J. Mares

2010

191. 22.3.-26.3.: DPG spring meeting Regensburg:
-*Conserving T-matrix theory of superconductivity*, K. Morawetz, P. Lipavský, M. Männel

2011

192. 14.3.-18.3.: DPG spring meeting Dresden:
-*Asymmetric Bethe-Salpeter equation for pairing and condensation*, K. Morawetz, P. Lipavský, M. Männel, B. Sopik
193. -*Change of critical temperature by electric fields*, K. Morawetz, P. Lipavský, J. Kolaček, E. H. Brandt
194. -*Spin and density response of interacting particles with spin-orbit coupling*, K. Morawetz, J. Kailasvuori, O. Bozat
195. -*Ginzburg-Landau theory for the early phase of morphogenesis of brine channels in sea ice*, S. Thoms, B. Kutschan, K. Morawetz, S. Gemming

2012

196. 26.3.-30.3.: DPG spring meeting Berlin:
-*Superposition of BEC and first-order phase transition in a repulsive Bose gas*, M. Männel, K. Morawetz, P. Lipavský
197. -*A new method to calculate partition functions*, K. Morawetz

2013

198. 11.3.-15.3.: DPG spring meeting Regensburg:
-*Stability of super-currents and condensates in type-I superconductors*, K. Morawetz, P. Lipavský, B. Sopik, M. Männel
199. -*Quasiparticle parametrization of meanfields, Galilean invariance and universal response function*, K. Morawetz

2014

200. 30.3.-4.4.: DPG spring meeting Dresden:
-*Terahertz out-of-plane resonances due to spin-orbit coupling*, K. Morawetz
201. -*Formation of correlations at short time scales*, K. Morawetz

2015

202. 16.3.-20.3.: DPG spring meeting Berlin:
-*Universal short-time response and formation of correlations after quantum quenches*, K. Morawetz
203. -*Quantum transport and response with spin-orbit coupling in magnetic fields*, K. Morawetz
204. -*Asymmetric Bethe-Salpeter equation for pairing and condensation*, K. Morawetz, P. Lipavský

2017

205. 20.3.-24.3.: DPG spring meeting Dresden:
-*Dynamical charge and pseudospin currents in graphene and possible Cooper pair formation*, K. Morawetz
206. -*Nonequilibrium thermodynamics by nonlocal quantum kinetic theory*, K. Morawetz, P. Lipavský
207. -*Induced voltage in an open wire*, K. Morawetz, M. Gilbert, A. Trupp

2018

208. 11.3.-16.3.: DPG spring meeting Berlin:
-*Correlational latent heat by nonlocal quantum kinetic theory*, K. Morawetz
209. -*Transport in graphene and possible Cooper pair formation*, K. Morawetz
210. -*Conditions where RPA becomes exact in the high-density limit*, K. Morawetz, Vinod Ashokan, Renu Bala, Kare Narain Pathak
211. -*Anomaly transport in graphene and Weyl semimetals normally explained*, K. Morawetz

2019

212. 11.3.-15.3.: DPG spring meeting Rostock:
-*Bose condensation of squeezed light*, K. Morawetz
213. 1.4.-5.4.: DPG spring meeting Regensburg:
-*Anomaly transport normally explained*, K. Morawetz

2021

214. 30.8.-3.9.: DPG spring meeting Jena (online):
-*Consistent solution of Einstein-Cartan equations with torsion outside matter*, K. Morawetz
215. -*Exploring anomalies by many-body correlations*, K. Morawetz
216. -*Correlational entropy by nonlocal quantum kinetic theory*, K. Morawetz
217. 27.9.-1.10.: DPG spring meeting (online):
-*Bose condensation of squeezed light*, K. Morawetz

2023

218. 20.3.-24.3.: DPG (smuk) spring meeting Dresden:
-*Time dependence of Hubble parameter by torsion*, K. Morawetz
219. 27.3.-31.3.: DPG (skm) spring meeting Dresden:
-*Extended quasiparticle Padé approximation for non-Fermi liquids*, K. Morawetz
220. -*Exploring anomalies by many-body correlations*, K. Morawetz

2.3 Public talks and lectures for educational work and schools

221. 26.05.1993, *Das Weltbild der modernen Physik*, lutheran student group Rostock
222. WS 1993/94, *Ethik und Wissenschaft*, seminar 2 h/week (30h), together with Dr. Bull (Theology) Uni Rostock
223. 18.10.1993, *Vom Können zum Sollen, Ethik der Wissenschaft*, catholic student group Rostock
224. 1994, *Zur antropologischen Relevanz der modernen Physik*, catholic student group Rostock
225. 1994, *Geschichte und Gegenwart der Teleologie*, meeting with Polish student group Rostock
226. WS 1994/95, *Physik und Philosophie*, seminar 1 h/week (15h) Uni Rostock
227. WS 1996/97, *Physik und Philosophie*, seminar 2 h/week (30h) Uni Rostock
228. 1997, *Naturkausalität und Freiheit*, "Ernst- Moritz- Schlick Kreis" Rostock
229. 1998, *Naturwissenschaft und Religion*, meeting at the Youth Education House Teterow Rostock
230. SS 1999, *Physik und Philosophie*, studium generale, 2 h/week (30h), together with M. Vogt, Uni Rostock

231. 28.02.2002, *Supraleitung*, Lehrertag Dresden am MPIPKS
232. 09.04.2002, *Geschichte der Zeit*, Opening lecture *Aspekte der Zeit* studium generale, TU Dresden and MPIPKS
233. 22.05.2002, *Das Phänomen Supraleitung*, J. A. Huelse Gymnasium Dresden
234. 24.05.2002, *Das Phänomen Supraleitung*, Gymnasium Dreikönigsschule Dresden
235. 03.-05.02.2003, *Leitung und Supraleitung*, Winterschool of Dresden schools (supported by Robert Bosch Stiftung)
236. 06.03.2003, *Supraleitung - Geschichte einer spannenden Entdeckung*, St. Afra Gymnasium Meissen
237. 22.05.2003, *Supraleitung - Geschichte einer spannenden Entdeckung*, Gymnasium Dresden
238. 05.06.2003, *Supraleitung - Geschichte einer spannenden Entdeckung*, Albrecht-Thaer Gymnasium Hamburg
239. 12.06.2003, *Zur Geschichte des deterministischen Weltbildes*, Akademisches-Donnerstags-Kolloquium, Seniorenakademie Dresden
240. 12.06.2003, *Supraleitung - Geschichte einer spannenden Entdeckung*, Martin-Andersen-Nexö Gymnasium Dresden
241. 14.06.2003, *Supraleitung - Geschichte einer spannenden Entdeckung*, X. Chemnitzer Schüler-Sommerschule
242. 21.11.2003, *Wenn die Eisenbahn anfängt zu schweben - Spannendes aus der Supraleitung*, Studium Generale, Lehrerweiterbildung TU-Chemnitz
243. 29.04.2004, *Supraleitung - Geschichte einer spannenden Entdeckung*, MPIPKS Dresden
244. 21.10.2004, *Supraleitung - Geschichte einer spannenden Entdeckung*, Kepler-Gymnasium Chemnitz
245. 29.10.2004, *Gott und das Weltbild der modernen Physik*, kath. Akademie Neustrelitz
246. 02.11.2004, *Wenn die Eisenbahn anfängt zu schweben-Spannendes aus der Supraleitung*, Seniorenkolleg Chemnitz
247. 12.04.2005, *Neues von der Supraleitung*, visiting Gymnasium Lyngby at MPIPKS Dresden
248. 18.07.2005, *Das Rätsel Zeit aus physikalischer Sicht*, XI. Chemnitzer Schüler-Sommerschule
249. 27.10.2005, *Das Rätsel Zeit aus physikalischer Sicht*, Verein zur Förderung der Sächsischen Physikolympiade e.V., Johannes-Kepler-Gymnasium Chemnitz
250. 06.12.2006, *Das Rätsel Zeit aus physikalischer Sicht*, Besuch des Gymnasiums Riesa am MPIPKS
251. 26.04.2007, *Das Rätsel Zeit aus physikalischer Sicht*, Besuch des Gymnasiums Dresden am MPIPKS
252. 27.07.2007, *Supraleitung - Geschichte einer spannenden Entdeckung*, Lehrertag, MPIPKS Dresden
253. 05.12.2007, *Das Rätsel Zeit aus physikalischer Sicht*, NOVALIS Forum Freiberg

- 254. 06.12.2007, *Das Rätsel Zeit aus physikalischer Sicht*, AGRICOLA Forum Chemnitz
- 255. 13.02.2008, *Das Rätsel Zeit aus physikalischer Sicht*, LEIBNIZ Forum Leipzig
- 256. 30.09.2008, *Das Rätsel Zeit aus physikalischer Sicht*, visiting teachers, FZ Dresden-Rossendorf
- 257. 15.12.2008, *Supraleitung - Geschichte einer spannenden Entdeckung*, Schülerdokter, MPIPKS Dresden
- 258. 13.02.2009, *Simulation von Nanobauteilen*, Lehrertag, FZ Dresden-Rossendorf
- 259. 30.10.2010, *Das Quantenphänomen Supraleitung*, MIND-Studentenakademie 2010, Köln
- 260. 21.03.2011, *Ist alles vorherbestimmt? Das Rätsel Zeit - zum Dialog von Physik und Religion*, ev. Gemeinde Dresden-Leuben

3. POSTER PRESENTATIONS

3.1 Poster at international conferences and workshops

1991

1. 18.11. - 21.11.: International Workshop on Nonideal Plasmas (IWNP) Gosen bei Berlin:
-*Relativistic kinetic theory and nucleon - meson - systems*
2. -*High electric fields in partially ionized hydrogen plasmas*

1993

3. 20. - 24.9.: ICPIG in Bochum: *Partially ionized plasmas in high fields*
4. 19.7.-23.7.: Rostock, Poster to intensive course *Exakt lösbare Modelle der Quantenstatistik vieler Teilchen*

1994

5. 30.5.-4.6.: Nucleous Nucleous collisions V in Taormina (Italy):
-*In-medium relativistic kinetic theory*
6. -*Critical scattering in heavy ion reactions*
7. 23.8.-26.8.1994: XII. European Sectional Conference on the Atomic and Molecular Physics of Ionized Gases (ESCAMPIG):
-*A new type plasma instabilities in high electric fields*, K. Morawetz, A. P. Jauho
8. -*Partially ionized hydrogen plasma in high electric fields- composition, transport and dielectric properties*

1995

9. 11.9.-15.9.: International Conference on Physics of Strongly Coupled Plasmas, Binz: *Memory effects and nonideal plasmas*

1996

10. 9.5.-11.5.: Nordic Statistical Physics Workshop, NORDITA, Niels-Bohr Institut Kopenhagen:
Critical cluster formation in heavy ion reactions
11. 28.9.-3.10.: Chaotic Phenomena in Nuclear Physics, European Research Conference, Crete (Greece): *Influence of fluctuations on the damping of giant resonances*
12. 27.11.-29.11.: International Workshop Phase Transitions in Nuclear Collisions, Niels-Bohr Institut Kopenhagen: *Critical cluster formation in heavy ion reactions*

1997

13. 2.6.-6.6.: VI. Nucleous-Nucleous conference in Gatlinburg:
-*The contribution of density fluctuations to the damping of giant resonances*, K. Morawetz, U. Fuhrmann, R. Walke

14. *-Formation of correlations*, K. Morawetz, S. Koehler
15. *-Transport theory with nonlocal corrections*, K. Morawetz, P. Lipavský, V. Spička
16. 1.9.-5.9.: Atomic Nuclei and Metallic Clusters- Finite Many-Fermion Systems in Prague: *The contribution of density fluctuations and correlations to the damping of giant resonances*, K. Morawetz, U. Fuhrmann, R. Walke
17. 3.8.-10.8.: International Conference on Strongly Coupled Coulomb Systems, SCCS97, Boston: *-Debye-Onsager relaxation effect beyond linear Response*
18. *-Formation of binary correlations in plasma*, K. Morawetz, V. Spička, P. Lipavský
19. *-Virial corrections to the Landau theory of quasiparticle transport*, V. Spička, P. Lipavský, K. Morawetz
20. 22.9.-25.9.: 8th International Workshop on Atomic Physics for Ion-Driven Fusion, Heidelberg: *-Nonlinear Debye-Onsager relaxation effect*, K. Morawetz
21. *-Transport theory with nonlocal corrections*, K. Morawetz, V. Spička, P. Lipavský

1998

22. 11.5.-16.5.: Topical conference on giant resonances in Varenna, Italy: *-Damping rates of hot giant dipole resonances*, U. Fuhrmann, K. Morawetz, R. Walke
23. *-Giant resonance simulation in isospin asymmetric nuclei*, R. Walke, K. Morawetz, P. Schuck, U. Fuhrmann
24. *-Shape fluctuations and chaotic scattering in finite nuclei*, R. Walke, K. Morawetz, P. Schuck, U. Fuhrmann
25. 20.7.-24.7.: XXth IUPAP International conference on statistical physics, Paris: *-Nonlocal kinetic equation for strongly interacting Fermi systems*, K. Morawetz, P. Lipavský, V. Spička
26. *-Nonlocal corrections to the Boltzmann equation for dense Fermi systems*, V. Spička, K. Morawetz, P. Lipavský
27. *-Formation of correlations*, K. Morawetz, P. Lipavský, V. Spička
28. 6.9.-11.9.: International workshop on the physics of nonideal plasmas, PNP9, Rostock 1998: *-Dielectric properties of interacting storage ring plasmas*, A. Selchow, K. Morawetz
29. *-Nonlinear Debye-Onsager relaxation effect in plasma systems*, K. Morawetz, J. Ortner
30. *-Formation of binary correlations at short time scales*, K. Morawetz, P. Lipavský, V. Spička

1999

31. 4.9.-10.9.: International Conference on Strongly Coupled Coulomb Systems, St. Malo, France 1999: *-Formation of correlations*, K. Morawetz, P. Lipavský, V. Spička
32. *-Nonlinear current in high electric field plasmas*, K. Morawetz, J. Ortner
33. *-Nonlocal kinetic theory*, K. Morawetz, P. Lipavský, V. Spička

34. International Workshop: "Kadanoff-Baym Equations - Progress and Perspectives for Many-Body Physics" Rostock, September 20-24 1999:
-*Relativistic Transport Equations with Generalized Mass Shell Constraints*, L. Mornas, and K. Morawetz
35. -*Space-time vs. particle-hole symmetries of scattering integrals*, V. Spicka, P. Lipavsky, and K. Morawetz

2000

36. 9.6.: Workshop on nonequilibrium Physics at short time scales, Dresden 29.5.-23.6.:
-*Nonlocal kinetic theory* K. Morawetz, P. Lipavsky, V. Spicka
37. -*Formation of correlations* K. Morawetz, S. Köhler, P. Lipavsky, V. Spicka
38. -*Damping of giant resonances* K. Morawetz, U. Fuhrmann, M. Vogt

2002

39. 4.4.: Conference on Structure and Arrangement of Vortices in Superconductors, Prague 03.04.-07.04.:
-*Electric field dependent pairing* K. Morawetz
40. 15.08.: Workshop on "Microscopic Chaos and Transport", Dresden, 5.-24.8.02: *Nonlocal kinetic theory*

2003

41. 09.05.: Workshop "Offshell Effects in Quantum Transport " Dresden, 4.05.-18.05.2003:
-*Electric fields in superconductors*, P. Lipavsky, J. Kolacek, K. Morawetz, E.H. Brandt
42. -*Anomalous radial expansion*, K. Morawetz, M. Ploszajczak, V.D. Toneev
43. -*A relation between classical and quantum systems*, K. Morawetz
44. -*Nonlocal kinetic theory*, K. Morawetz, P. Lipavsky, V. Špička

2005

45. 03.03.: Workshop "Korrelatonstage 2005", Dresden, 28.02.-04.3.05:
-*Correlated two-particle scattering on finite cavities*
46. -*Metal-insulator transition in quasi-2D electron systems*

2006

47. 05.02.-10.02.: Gordon research conference, Buellton, CA New London, U.S.A., "Ultrafast Phenomena in Cooperative Systems":
-*A relation between classical and quantum particle systems*, K. Morawetz
48. 25.04.: Workshop "Non-equilibrium Dynamics in Interacting Systems", Dresden, 18.04.-05.5.06:
-*Formation of collective modes and correlations at femtosecond time scales*, K. Morawetz, P. Lipavsky, M. Schreiber
49. -*What is hidden behind memory effects ? - Nonlocal kinetic theory*, K. Morawetz, P. Lipavsky
50. -*Anomalous radial expansion as signal of phase transition*
Correlated two-particle scattering on finite cavities, K. Morawetz, M. Ploszajczak, V. D. Toneev

51. 17.05.: Workshop "Quantum Coherence, Noise and Decoherence in Nanostructures", Dresden, 15.05.-26.5.06:
-*Metal-insulator transition in quasi-2D electron systems*, K. Morawetz, C. Olbrich, M. Schreiber
52. -*Transition from BEC to Cooperpairing near Resonant Cavities*, K. Morawetz, B. Schmidt, M. Schreiber
53. 23.05.:
-*Enhancement of Pairing Temperature near Resonant Cavities*, K. Morawetz, B. Schmidt, M. Schreiber
54. -*Universal Features in Femtosecond Formation of Collective Modes*, K. Morawetz, P. Lipavsky, M. Schreiber
55. 05.06.-10.06.: International workshop on condensed matter theories (CMT30), Dresden, Germany
- *Birth of a quasiparticle- Femtosecond response*, K. Morawetz, P. Lipavsky, M. Schreiber
56. - *What is hidden behind memory effects ? - Nonlocal Kinetic Theory*, K. Morawetz, P. Lipavský
57. -*Enhancement of Pairing Temperature near Resonant Cavities*, K. Morawetz, B. Schmidt, M. Schreiber
58. -*Metal-insulator transition in quasi-2D electron systems*, K. Morawetz, C. Olbrich, M. Schreiber
59. 09.07.-14.07.: 8th International Conference on Materials and Mechanisms of Superconductivity and High Temperature Superconductors (M2S-HTSC-VIII) Dresden, Germany
-*Electric fields in Superconductors*, K. Morawetz, P. Lipavský, J. Kolacek, E.-H. Brandt, M. Schreiber
60. -*Enhancement of pairing due to the presence of resonant cavities*, K. Morawetz, B. Schmidt, M. Schreiber, P. Lipavsky

2007

61. 16.-20.07.: 14th International Conference on Recent Progress in Many Body Theories (RPMBT14), Barcelona: *The Correlated Density and its Application to Superconductors*

2008

62. 05.-08.03.: International Workshop on Chaos and Collectivity in Many-Body Systems, Dresden:
-*Enhancement of pairing near resonant atoms*
63. -*Fluctuations due to nonlocal collisions*
64. 27.10.-29.10.: International Workshop on Physics and Chemistry of FeAs-based Superconductors, Dresden: *Enhancement of T_c due to charge transfer*
65. 01.12.-06.12.: International Workshop on Nonequilibrium Nanostructures, Dresden: *Bose condensation for attractive interaction?*, M. Maennel, P. Lipavský, K. Morawetz, M. Schreiber

2009

66. 01.-05.03.: Workshop "Korrelationstage 2009" Dresden: *Quantum kinetic theory beyond the quasiparticle picture - Field effects in dense correlated systems*

67. Workshop on Routes to Superconductivity at Ambient Conditions, 13.4.-24.4.2009, ICCMP, Brasilia:
 -*Surface deformation caused by the Abrikosov vortex lattice*, P. Lipavský, K. Morawetz, J. Kolacek, E. H. Brandt
68. -*Surface superconductivity and capacitance of superconductors under electric and magnetic fields*, K. Morawetz, P. Lipavský, J. Kolacek, E. H. Brandt

2010

69. 28.5.-5.6.10 International Symposium on Sea Ice in the physical and biological system, Tromsø: *Formation of brine channels in sea ice*, B. Kutschan, K. Morawetz, S. Thoms
70. 27.9.-1.10.: International conference *Ultracold Quantum Gases Beyond Equilibrium*, Natal (BR): -*Multiple condensed phases in interacting Bose systems*, M. Maennel, K. Morawetz, P. Lipavský, M. Schreiber
71. 28.10.-30.10. IGS Nordic Branch meeting in Copenhagen: *Morphology of brine channel formation in sea ice*, B. Kutschan, K. Morawetz, S. Thoms

2011

72. 5.-6.10.11 Koordinations-Workshop SPP 1158, (Ebernburg, Bad Münster): *Brine Channel Formation in Sea Ice*, S. Thoms, B. Kutschan, K. Morawetz, S. Gemming, G. Dieckmann

2012

73. 26.-28.9.12 Koordinations-Workshop SPP 1158, (Jena): *Influence of salt and AFPs on the microstructure formation in sea ice*, B. Kutschan, S. Thoms, K. Morawetz, S. Gemming

2013

74. 11.3.-22.3.: 25th International Polar Congress, Hamburg, Germany:
 -*Phase field theory of brine entrapment in sea ice: Short time frozen microstructures*, S. Thoms, B. Kutschan, K. Morawetz
75. -*A mechanism of ice growth inhibition by AFPs*, B. Kutschan, S. Thoms, K. Morawetz
76. 15.04.-19.04.: Workshop on Spin-Orbit Interaction for Light and Matter Waves, MPIPKS Dresden, Germany: *Response to electric fields with spin-orbit coupling and magnetic fields*, K. Morawetz
77. 12.08.-30.08.: Workshop on Quantum Many Body Systems out of Equilibrium, MPIPKS Dresden, Germany
 - *Formation of Plasma and Bloch oscillations*, K. Morawetz, P. Lipavsky
78. - *Nonlocal Kinetic Theory*, K. Morawetz, P. Lipavský
79. 16.09.-20.09.: Workshop on Topology and Nonequilibrium in Low-Dimensional Electronic Systems, MPIPKS Dresden, Germany: *Quantum transport and response to electric fields in non-Abelian systems with spin-orbit coupling and magnetic fields*, K. Morawetz

2014

80. 8.1.-10.1.14: 550 WE-Heraeus-Seminar on 'Spin transport beyond Boltzmann' at the Physikzentrum Bad Honnef (Germany)
 -*Nonlocal quantum kinetic theory - Extended quasiparticle picture*, K. Morawetz, P. Lipavský
81. -*Terahertz out-of-plane resonances due to spin-orbit coupling*, K. Morawetz

82. 27.03.-29.03.: Workshop on Topological Matter Out of Equilibrium, MPIPKS Dresden, Germany:
-*Nonlocal quantum kinetic theory - Extended quasiparticle picture*, K. Morawetz, P. Lipavsk'y

83. -*Terahertz out-of-plane resonances due to spin-orbit coupling*, K. Morawetz

2015

84. 6.09.-11.09. 26th International Congress on Polar Research, Munich, Germany:
-*Dynamical mechanism of antifreeze proteins*, K. Morawetz, B. Kutschan, S. Thoms

85. -*Huddle behaviour of emperor penguins*, K. Morawetz, F. Morawetz, D. Zitterbart

86. 28.9.-2.10. Int. conference *Korrelationstage*, Dresden, Germany: *Asymmetric Bethe-Salpeter equation - many phases of interacting Bose- and Fermi gases*

2016

87. 29.02.-4.03.: Workshop on Topological Phenomena in Novel Quantum Matter: Laboratory Realization of Relativistic Fermions and Spin Liquids, MPIPKS Dresden, Germany
Quantum kinetic theory with spin-orbit coupling in magnetic and electric fields, K. Morawetz

88. 2.05.-6.05.: Spring meeting of European Materials Research Society, Lille, France
Quantum kinetic theory with spin-orbit coupling in magnetic and electric fields, K. Morawetz

2017

89. 20.6.-23.6.: 14th Granada Seminar *Quantum Systems In and Out of Equilibrium: Fundamentals, dynamics and applications*, Universidad de Granada, Spain: *Universal short-time response and formation of correlations after quantum quenches*, K. Morawetz

90. 17.8.-21.8.: International Conference on Ultra Low Temperature Physics *Frontiers of Low Temperature Physics*, Universität Heidelberg, Germany:
-*Universal short-time response and formation of correlations after quantum quenches*, K. Morawetz

91. -*Nonlocal quantum kinetic theory to simulate strong correlations*, K. Morawetz

92. -*Dynamical charge and pseudospin currents in graphene and possible Cooper pair formation*

2021

93. 04.10.-08.10.: Ergodicity Breaking and Anomalous Transport in Quantum Many-Body Systems, International Workshop, MPIPKS Dresden: *Correlational entropy and nonlocal quantum kinetic theory*

3.2 Poster at DPG spring meetings

1991

94. 12.3. - 14.3.: DPG spring meeting of plasma physics section in Kiel: *Heiße Elektronen in partiell ionisierten H-Plasmen*

1992

95. 23. - 25.3.: DPG spring meeting of plasma physics section in Hannover: *Impact ionization of nonideal plasmas in strong electric fields*

1993

96. 9. - 11.3.: DPG spring meeting of plasma physics section in Greifswald: *Nonlinear transport of plasmas in strong electric fields*

1994

97. 7.3.-11.3.: DPG spring meeting of plasma physics section Erlangen: *Plasma Instabilities and anisotropy-effects in nonequilibrium*
98. 21.3.-25.3.: DPG spring meeting of nuclear physics section in Munich: *In-medium relativistic kinetic theory and critical scattering*

1995

99. 20.2.-23.2.: DPG spring meeting of plasma physics section in Innsbruck:
-*New type of instability and the two- particle problem in dense plasmas under the influence of strong fields*
100. -*Stopping power and energy transfer in nonideal plasmas for inertial fusion*
101. 13.3.-17.3.: DPG spring meeting of nuclear physics section in Köln:
-*The in-medium two-particle problem in high fields*
102. -*Deuteron formation in hot dense matter*
103. -*Quantum effects in heavy ion collision simulations*
104. -*Generalized quantum transport with memory effects and virial corrections in dense nuclear matter*

1997

105. 24.2.-28.2.: DPG spring meeting of nuclear physics section in Göttingen:
-*Medium dependent transport in spin-polarized nuclear matter*, K. Morawetz, L. Mornas
106. -*The contribution of density fluctuations to the damping of giant resonances*, K. Morawetz, M. DiToro, U. Fuhrmann

1998

107. 9.3.-13.3.: DPG spring meeting of plasma physics section Bayreuth:
-*Formation of correlations and screening in dense plasmas*, K. Morawetz, V. Spička, P. Lipavský
108. -*Nonlinear Debye-Onsager relaxation effect in plasma systems*, K. Morawetz, J. Ortner
109. 16.3.-20.3.: DPG spring meeting of nuclear physics section in Bochum:
-*Formation of correlations and energy conservation at short time scales*, K. Morawetz, S. Koehler
110. -*New collective mode due to collisional coupling in asymmetric nuclear matter*, K. Morawetz, U. Fuhrmann, R. Walke, M. DiToro
111. -*Medium dependent transport in spin-polarized nuclear matter*, K. Morawetz, L. Mornas
112. -*Damping of giant resonances in symmetric and asymmetric nuclear matter*, U. Fuhrmann, K. Morawetz, R. Walke
113. -*Shape fluctuations and chaotic scattering in finite nuclei*, M. Vogt, K. Morawetz, U. Fuhrmann, R. Walke

1999

114. 15.3.-19.3.: DPG spring meeting of plasma physics section Heidelberg: *Nonlinear Debye-Onsager-Relaxation-Effect in Plasma Systems*, K. Morawetz, J. Ortner
115. 22.3.-26.3.: DPG spring meeting of nuclear physics section in Freiburg:
-*Comparison of the collision delay and displacements within the Bonn and Paris potentials*, K. Morawetz, P. Lipavsky, V. Spicka, N. Kwong
116. -*Damping of giant dipole resonances in symmetric and asymmetric nuclear matter*, U. Fuhrmann, K. Morawetz, R. Walke, G. Röpke
117. -*Giant Octupole Resonance Simulations*, R. Walke, K. Morawetz
118. -*New collective mode due to collisional coupling in asymmetric nuclear matter*, K. Morawetz, U. Fuhrmann, R. Walke, M. DiToro
119. -*Chaotic scattering on surfaces and collisional damping of collective modes*, U. Fuhrmann, M. Vogt, K. Morawetz, P. Lipavsky, V. Spicka

2001

120. 19.3.-23.3.: DPG spring meeting of nuclear physics section Erlangen:
-*Squeezing mode in nuclear collisions* K. Morawetz, P. Lipavský
121. -*Transport with three-particle interaction*, K. Morawetz
122. -*Anomalous radial expansion in central heavy-ion reactions*, K. Morawetz, M. Płoszajczak, V.D. Toneev
123. 2.4.-6.4.: DPG spring meeting of plasma physics section Berlin:
-*Retarded versus time-nonlocal quantum kinetic equations*, K. Morawetz, P. Lipavský, V. Špička
124. -*Nonlinear relaxation field in charged systems under high electric fields* K. Morawetz

2002

125. 11.3.-15.3.: DPG spring meeting of solid state physics section Regensburg:
-*Conductivity in quasi two-dimensional systems*, K. Morawetz
126. -*Bifurcation in kinetic equation for interacting Fermi systems*, K. Morawetz
127. -*A relation between classical and quantum particle systems*, K. Morawetz

2003

128. 24.3.-28.3.: DPG spring meeting of solid state physics section Dresden:
-*Electrodynamic potential in a superconductor*, K. Morawetz, P. Lipavský, J. Kolaček, E.H. Brandt
129. -*Bernoulli potential at a superconductor surface* P. Lipavský, K. Morawetz, J. Kolaček, E.H. Brandt

2004

130. 8.3.-12.3.: DPG spring meeting of solid state physics section Regensburg:
-*Budd-Vannimenus theorem for superconductors*, P. Lipavský, K. Morawetz, J. Kolaček, J.J. Mares, E.H. Brandt, M. Schreiber
131. -*Exactly solvable model of three interacting particles in an external magnetic field*, E.P. Nakhmedov, K. Morawetz, M. Ameduri, A. Yurtsever, C. Radehaus

132. -*Metal-Insulator transition in quasi 2D systems*, K. Morawetz

2005

133. 4.3.-9.3.: DPG spring meeting Berlin:

-*Two-particle correlations in crystalline systems*, K. Morawetz, E.P. Nakhmedov, B. Schmidt, M. Schreiber, C. Radehaus

134. -*Surface potential in superconductors*, P. Lipavský, K. Morawetz, J. Koláček, J. Mares, E.H. Brandt, M. Schreiber

135. -*Quantum two-particle scattering on finite cavities*, K. Morawetz, M. Schreiber, B. Schmidt, A. Ficker, P. Lipavský

136. -*Bifurcation in kinetic equation for interacting Fermi systems*, K. Morawetz

137. -*Dynamical local fields for quasiparticles* K. Morawetz

138. -*Exactly solvable model of three interacting particles in an external magnetic field*, E. P. Nakhmedov, K. Morawetz, M. Ameduri, A. Yurtsever, C. Radehaus

139. -*Metal-Insulator transition in quasi 2D systems*, K. Morawetz

140. -*A relation between classical and quantum particle systems- Application to plasmas at short time scales*, K. Morawetz

141. -*A relation between classical and quantum particle systems*, K. Morawetz

142. -*Dynamical constraints and signals of phase transitions*, K. Morawetz

143. -*Anomalous radial expansion in central heavy-ion reactions*, K. Morawetz, M. Płoszajczak, V. D. Toneev

144. -*A multi-parameter Ising model for the adsorption of molecules on structured surfaces*, C. Olbrich, K. Morawetz, S. Gemming, R. Scholz, M. Schreiber, R. Ermrich, G. Seifert

2006

145. 27.3.-31.3.: DPG spring meeting Dresden:

-*Bernoulli potential at superconductor surfaces*, K. Morawetz, P. Lipavský, J. Koláček, E.H. Brandt, M. Schreiber

146. -*Electric fields at superconductor surfaces*, K. Morawetz, P. Lipavský, J. Koláček, E.H. Brandt, M. Schreiber

147. -*Dynamical local field corrections*, K. Morawetz

148. -*Metal-Insulator transition in heterojunctions*, K. Morawetz, C. Olbrich, M. Schreiber

149. -*Formation of species diversity due to self-organized criticality*, K. Morawetz, N. Amecke, R. Radünz, M. Döring, M. Schreiber

2007

150. 26.3.-30.3.: DPG spring meeting Regensburg:

-*Formation of Bloch-oscillations and plasma frequency in femtosecond excited semiconductors*, K. Morawetz, P. Lipavský, M. Schreiber

151. -*Reduction of surface coverage of finite systems due to geometrical steps*, K. Morawetz, C. Olbrich, S. Gemming, M. Schreiber

152. *-Fluctuations due to the nonlocal character of collisions*, K. Morawetz
153. *-Frustrated Ising- and Heisenberg-type Spin Systems on a Hexagonal Lattice*, C. Olbrich, T. Kunze, S. Gemming, K. Morawetz, M. Schreiber

2008

154. 26.3.-30.3.: DPG spring meeting Berlin:
-Contribution of the surface dipole to deformation of superconductors, K. Morawetz, P. Lipavský, J. Koláček, E.H. Brandt, M. Schreiber
155. *-The concept of correlated density and its application*, K. Morawetz, P. Lipavský, J. Koláček, E.H. Brandt, M. Schreiber
156. *-Phase diagram for interacting Bose systems*, M. Maennel, K. Morawetz, M. Schreiber

2009

157. 23.3.-27.3.: DPG spring meeting Dresden:
-Bose condensation for attractive interaction?, M. Männel, P. Lipavský, K. Morawetz, M. Schreiber
158. *-Surface deformation caused by the Abrikosov vortex lattice*, P. Lipavský, K. Morawetz, J. Kolacek, E. H. Brandt
159. *-Surface superconductivity and capacitance of superconductors under electric and magnetic fields*, K. Morawetz, P. Lipavský, J. Kolacek, E. H. Brandt
160. *-Current without external bias and diode effect in shuttling transport of nanoshafts*, K. Morawetz, S. Gemming, R. Luschtinetz, L. Eng, G. Seifert, A. Kenfack
161. *-Transport and noise in organic field effect devices*, K. Morawetz, S. Gemming, R. Luschtinetz, T. Kunze, P. Lipavsky, L. Eng, G. Seifert
162. *-Modelling the transport through organic layers on a ferroelectric substrate*, T. Kunze, S. Gemming, R. Luschtinetz, V. Pankoke, K. Morawetz

2010

163. 22.3.-26.3.: DPG spring meeting Regensburg:
-Surface superconductivity controlled by electric field, K. Morawetz, P. Lipavský, J. Kolaček
164. *-Modeling the morphogenesis of brine channels in sea ice*, B. Kutschan, K. Morawetz, S. Gemming
165. *-Multiple condensed phases in interacting Bose systems*, M. Maennel, K. Morawetz, P. Lipavský, M. Schreiber

2011

166. 14.3.-18.3.: DPG spring meeting Dresden:
-Single particle and bound state condensation in interacting Bose gases, M. Maennel, K. Morawetz, P. Lipavsky, M. Schreiber
167. *-Discontinuity of capacitance at the onset of surface superconductivity controlled by electric fields*, K. Morawetz, P. Lipavský, J. Kolaček
168. *-Condensation of bound states and pairs in interacting Fermi gases*, M. Maennel, K. Morawetz, P. Lipavsky, M. Schreiber

169. -*Brine channel formation by phase separation in sea ice*, B. Kutschan, S. Thoms, K. Morawetz, S. Gemming

2012

170. 26.3.-30.3.: DPG spring meeting Berlin:
-*Instability types at ion-assisted alloy deposition: from surface to bulk nanopatterning*, G. Abrasonis, K. Morawetz
171. -*Modeling the morphogenesis of brine channels in sea ice*, S. Thoms, B. Kutschan, K. Morawetz, S. Gemming
172. -*Instability of a repulsive Bose gas near the BEC transition*, M. Maennel, K. Morawetz, P. Lipavský

2013

173. 11.3.-15.3.: DPG spring meeting Jena:
-*Influence of AFPs on the crystal growth in solidification of water*, B. Kutschan, S. Thoms, K. Morawetz, S. Gemming
174. 11.3.-15.3.: DPG spring meeting Regensburg:
-*Coexistence of phase transitions and hysteresis near BEC*, M. Männel, K. Morawetz, P. Lipavský
175. -*Floating charged liquid bridges*, K. Morawetz
176. -*Galilean invariance and universal response function*, K. Morawetz

2014

177. 17.3.-21.3.: DPG spring meeting Berlin:
-*Freezing mechanisms of antifreeze proteins*, B. Kutschan, S. Thoms, K. Morawetz, S. Gemming
178. -*Morphogenesis of short-time frozen microstructures in sea ice*, B. Kutschan, S. Thoms, K. Morawetz, S. Gemming
179. 30.3.-4.4.: DPG spring meeting Dresden:
-*Formation and hybridization of Bloch and plasma oscillations*, K. Morawetz, P. Lipavský
180. -*Nonlocal quantum kinetic theory*, K. Morawetz, P. Lipavský
181. -*Quantum transport and response to electric fields in non-Abelian systems with spin-orbit coupling and magnetic fields*, K. Morawetz
182. -*Stability of supercurrents and condensates in type I superconductors*, K. Morawetz, P. Lipavský, B. Sopik, M. Männel

2015

183. 16.3.-20.3.: DPG spring meeting Berlin:
-*Nonlocal quantum kinetic theory*, K. Morawetz, P. Lipavský
184. -*Currents in a chain of quantum dots*, K. Morawetz

2017

185. 20.3.-24.3.: DPG spring meeting Dresden:
-*Currents in a chain of quantum dots*, K. Morawetz

186. *-Universal short-time response and formation of correlations after quantum quenches*, K. Morawetz
187. *Huddle-behavior simulation of emperor penguins*, F. Morawetz, K. Morawetz, D. Zitterbart
188. *-Exciton-light binding and lifetime of polaritons*, H. Lagemann, K. Morawetz
189. *-Quantum transport and response with spin-orbit coupling in magnetic fields*, K. Morawetz

2018

190. 11.3.-16.3.: DPG spring meeting Berlin:
-Quantum currents and pair correlation of electrons in a chain of localized dots, K. Morawetz
191. *-Reversed Currents in Charged Liquid Bridges*, K. Morawetz
192. *-Universal short-time response and formation of correlations after quantum quenches*, K. Morawetz
193. *-Coexistence of phase transitions and hysteresis near the onset of Bose-Einstein condensation*, K. Morawetz
194. *-Quantum transport and response with spin-orbit coupling in magnetic fields*, K. Morawetz
195. *-Currents in graphene and possible Cooper pair formation*,
196. *-Dependence of structure factor and correlation energy on the width of electron wires*, K. Morawetz, V. Ashokan, R. Bala, K. N. Pathak
197. *-Universal short-time response and formation of collective mode*, K. Morawetz

2019

198. 11.3.-15.3.: DPG spring meeting Rostock:
-Coexistence of phase transitions and hysteresis near the onset of Bose-Einstein condensation, M. Männel, K. Morawetz
199. 1.4.-5.4.: DPG spring meeting Regensburg:
-Correlational latent heat by nonlocal quantum kinetic theory, K. Morawetz
200. *-Exact high-density limit calculation for quantum wires*, K. Morawetz, V. Ashokan, R. Bala, K. N. Pathak
201. *-Transport in graphene and possible Cooper pair formation*, K. Morawetz
202. *-Anomaly transport in graphene and Weyl semimetals*, K. Morawetz
203. *-Bose condensation of squeezed light*, K. Morawetz

2021

204. 27.9.-1.10.: DPG spring meeting (online):
-RPA as exact high-density limit of 1D correlated electrons, K. Morawetz, Vinod Ashokan, Renu Bala, Kare Narain Pathak
205. *-Correlational entropy by nonlocal quantum kinetic theory*, K. Morawetz
206. *-Universal short-time response and formation of correlations after quantum quenches*, K. Morawetz

207. -*Weyl systems: anomalous transport normally explained*, K. Morawetz
208. -*Interplay of viscosity and surface tension for ripple formation by external laser melting*, K. Morawetz, Sarah Trinschek, Evgeny Gurevich
209. -*Bose condensation of squeezed light*, K. Morawetz
210. -*Charged Liquid Bridges*, K. Morawetz

2023

211. 20.3.-24.3.: DPG (smuk) spring meeting Dresden:
-*Exploring anomalies by many-body correlations*, K. Morawetz
212. -*Correlational entropy by nonlocal quantum kinetic theory*, K. Morawetz
213. 27.3.-31.3.: DPG (skm) spring meeting Dresden:
-*Ground state properties of electron-electron biwire systems*, Rajesh O. Sharma, Neil Drummond, Vinod Ashokan, Kare Narain Pathak, Klaus Morawetz
214. -*Electron correlation and confinement effects in quasi-one-dimensional quantum wires at high-density*, Ankush Girdhar, Vinod Ashokan, Neil Drummond, Klaus Morawetz, Kare Narain Pathak

4. DOCUMENTS

Diploma

PhD (German)

Habilitation (German)

Qualification aux fonctions de Professeur des universités (French)

Lecture permission (German)

Guestprofessorship at ICCMP (Brazil)

Prize of best publication from Charles University Prague

Professorship at FH Münster