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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, (2018), Berlin, ISBN 978-3-319-72373-0

1.4 Publications in refereed journals

1992

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

1993

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

1994

23. *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
24. *Phys. Rev.* **E 50**,1 474-479: *Plasma Instabilities in High Electric Fields*, K. Morawetz, A.P. Jauho
25. *Phys. Rev.* **E 50**,5 4625-4635: *Theory of Fluctuations in High Electric Fields*, K. Morawetz
26. *Phys. Lett.* **A 190** 96-100: *Suppression of the effect of collisions due to memory effects*, K. Morawetz, R. Walke and G. Röpke

1995

27. *Phys. Rev.* **E 51** 4246-4266: *Memory Effects and Virial Corrections in Nonequilibrium Dense Systems*, K. Morawetz, G. Röpke

28. Phys. Lett. **A 199** 241-245: *The Landau equation including Memory and Energy Conservation*, K. Morawetz
29. Z. Phys. **A 352** 265-274: *In-medium Kinetic Theory and Nucleon -Meson Systems*, K. Morawetz, D. Kremp

1996

30. Z. Phys. **A 355** 287-299: *In-medium two-nucleon properties in high electric fields*, K. Morawetz, G. Röpke
31. 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
32. Phys. Rev. **E 54**,3 4134-4147: *Stopping power in nonideal dense plasmas*, K. Morawetz, G. Röpke
33. Laser and Particle Beams **14**,4 611-624: *Stopping power in nonideal plasmas*, K. Morawetz

1997

34. Phys. Rev. **C 55** 1015-1017 rap. comm.: *Exact Solution of selfconsistent Vlasov equation*, K. Morawetz
35. Phys. Rev. **A 55** 1945-1951: *Medium modification of two-particle scattering in nonideal Bose systems*, H. Stein, K. Morawetz, G. Röpke
36. Phys. Rev. **B 55** 5084-5095: *Quasiparticle transport equation with collisional delay: I. Phenomenological approach*, V. Spička, P. Lipavský, K. Morawetz
37. Phys. Rev. **B 55** 5095-5111: *Quasiparticle transport equation with collisional delay: II. Quantum statistical approach*, V. Spička, P. Lipavský, K. Morawetz
38. 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
39. Laser and Particle Beams **15**, 507-521: *Stopping power in strongly coupled plasmas*, K. Morawetz

1998

40. Phys. Lett. **A 240** 160-166: *Nonlocal corrections to the Boltzmann equation for dense Fermi systems*, V. Spička, P. Lipavský, K. Morawetz
41. Phys. Rev. **C 57** 2813-2815 rap. comm.: *New collective mode due to collisional coupling*, K. Morawetz, R. Walke, U. Fuhrmann
42. Phys. Lett. **A 246** 311-317: *Formation of binary correlations in strongly coupled plasmas*, K. Morawetz, V. Spička, P. Lipavský
43. Phys. Rev. **C 58** 1473-1487: *Damping of Giant Dipole Resonances*, U. Fuhrmann, K. Morawetz, R. Walke
44. Nuclear Inst. and Meth. **A 415** 591-593 *Formation of correlations in strongly coupled plasma*, K. Morawetz, V. Spička, P. Lipavský
45. Nuclear Inst. and Meth. **A 415** 665-667 *Nonlinear Debye-Onsager-Relaxation-Effect*, K. Morawetz
46. Nuclear Inst. and Meth. **A 415** 662-664 *Transport theory with nonlocal corrections*, K. Morawetz, V. Spička, P. Lipavský

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48. Nucl. Phys. **A 649** 348c-354c: *Damping of giant resonances in asymmetric nuclear matter*, K. Morawetz, U. Fuhrmann, R. Walke
49. 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
50. Phys. Rev. **C 60** 17301-17303: *Giant octupole resonance simulations*, R. Walke, K. Morawetz
51. 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
52. Phys. Rev. **E 59** 1015-1025: *Dielectric properties of interacting storage ring plasmas*, errate Phys. Rev. **E 69**, 039902(E) A. Selchow, K. Morawetz
53. Phys. Rev. **E 59** 1291-1294 rap. comm.: *Noninstantaneous collisions and two concepts of quasiparticles*, P. Lipavský, V. Spička, K. Morawetz
54. Eur. Phys. J. **A 4** 291-305: *Formation of correlations and energy conservation at short time scales*, K. Morawetz, H. S. Köhler
55. Contrib. Plasma Phys. **39** 41-44: *Quasiparticle Boltzmann equation for nonlocal binary collisions*, K. Morawetz, P. Lipavský, V. Spička
56. 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

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57. Phys. Rev. **E 61** 2272-2280: *General response function for interacting quantum liquids*, K. Morawetz, U. Fuhrmann
58. Phys. Rev. **E 61** 2555-2558: *Quantum response of finite Fermi systems and the relation of Lyapunov exponent to transport coefficients*, K. Morawetz
59. Phys. Rev. **E 62** 4382-4386: *Momentum conservation and local field corrections for the response of interacting Fermi gases* K. Morawetz, Uwe Fuhrmann
60. Phys. Rev. **C 62** 044606-1-11: *Dynamical constraints on phase transitions*, K. Morawetz
61. 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
62. Phys. Rev. **C 62** 064602-1-10: *Anomalous radial expansion in central heavy-ion reactions*, K. Morawetz, M. Płoszajczak, V.D. Toneev
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65. Phys. Rev. **E 63** 020102R-1-4: *Short time dynamics with initial correlations*, K. Morawetz, M. Bonitz, V. G. Morozov, G. Röpke, D. Kremp

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68. Phys. Rev. **C 64** 024613-1-13: *Correlations in many-body systems from two-time Greens functions*, S. Köhler, K. Morawetz
69. 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
70. Annals of Physics **294** 135-164: *Retarded versus time-nonlocal quantum kinetic equations*, K. Morawetz, P. Lipavský, V. Spička

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

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

83. 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

84. Europhys. Lett. **67** 77–83: *Effective mass in quasi two-dimensional systems*, K. Morawetz
85. 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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88. 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
89. 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. 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

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97. Eur. Phys. J. **B 62**, 311-317: *Reduction of surface coverage or magnetization due to geometrical steps*, K. Morawetz, C. Olbrich, S. Gemming
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99. Phys. Rev. **B 78** 054508-1-5: *Phase diagram and binding energy of interacting Bose gases*, M. Maennel, K. Morawetz, M. Schreiber, P. Lipavsky
100. 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

101. New J. Phys. **10** 103014-1-8: *Current without bias and diode effect in shuttling transport of nanoshafths*, K. Morawetz, S. Gemming, R. Luschtinetz, L. M. Eng, G. Seifert, A. Kenfack
102. 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

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103. 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
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105. 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
106. 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

107. Phys. Lett. **A 374**, 644-646: *Impossibility to describe repulsion with contact interaction*, K. Morawetz, M. Männel
108. 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
109. New J. Phys. **12**, 033013-1-9: *Multiple condensed phases in attractively interacting Bose systems*, M. Männel, K. Morawetz, P. Lipavský
110. Phys. Rev. **E 81**, 036106-1-10: *Modeling the morphogenesis of brine channels in sea ice*, B. Kutschan, K. Morawetz, S. Gemming
111. Phys. Rev. **B 82** 092501-1-4: *Equivalence of channel-corrected T-matrix and anomalous propagator approach*, K. Morawetz

2011

112. J. Stat. Phys. **143**, 482-500: *Asymmetric Bethe-Salpeter equation for pairing and condensation*, K. Morawetz
113. 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

114. AIP Advances **2**, 022146-1-6: *The effect of electromagnetic fields on a charged catenary*, K. Morawetz
115. Phys. Rev. **E 86**, 026302-1-9, errata Phys. Rev. **E 86**, 069904-1: *Theory of water and charged liquid bridges*, K. Morawetz
116. 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

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

2014

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

2015

123. 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
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2016

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

2017

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127. Eur. Phys. J. **E 40**, 25, 1-7: *Formation of brine channels in sea ice*, K. Morawetz, S. Thoms, B. Kutschan
128. Water 2017, 9(5), 353-360: *Reversed currents in charged liquid bridges*, K. Morawetz
129. Z. f. Naturforschung A, 72, 617-625: *Induced voltage in an open wire*, K. Morawetz, M. Gilbert, A. Trupp
130. Phys. Rev. **E 96**, 032106, 1-17: *Nonequilibrium thermodynamics with binary quantum correlations*, K. Morawetz

2018

131. 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
132. 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

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

2019

134. Phys. Lett. A, arXiv:1809.01547: *Chiral anomaly in Weyl systems: no violation of classical conservation laws*, K. Morawetz

1.5 Submitted papers

135. Nature Physics: *Huddle behaviour of emperor penguins*, K. Morawetz, F. Morawetz, D. Zitterbart

136. Europ. Phys. J. B, arXiv:1806.06214: *Weyl systems: anomal transport normally explained*, K. Morawetz

137. arXiv: 1806.11324: *Reply to the comment of P. Lipavsky*, K. Morawetz

138. Phys. Rev. B sub., arXiv: 1809.09525: *Bose condensation of squeezed light*, K. Morawetz

1.6 Conference proceedings and reports

1992

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1993

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1994

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144. *ibid.* p. 454-455: *Partially ionized Hydrogen Plasma in high electric fields- composition, transport and dielectric properties*, K. Morawetz

1995

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1996

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149. *ibid.* p.70: *The Influence of Memory and Correlation on the Stopping Power*
150. *ibid.* p. 74: *Virial corrections to the Landau theory of Quasiparticle Transport*

1997

151. *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
152. 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*
153. *ibid.* p. 100: *Formation of correlations in plasma at short time scales*
154. *ibid.* p. 101: *The consistent kinetic equation and the equation of state of nuclear matter*

1998

155. 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
156. 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
157. *ibid.* p. 102: *Formation of correlations in strongly coupled plasmas*, K. Morawetz, V. Spička, P. Lipavský

1999

158. 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
159. 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
160. *ibid.* p. 93-95: *Damping of IVGDR - Fermi liquid or Fermi gas ?*, K. Morawetz, U. Fuhrmann, M. Vogt
161. GSI-Jahresbericht 1998, *High Energy Density in Matter Produced by Heavy Ion Beams*, p. 72: *Short time dynamics with initial correlations*, K. Morawetz
162. 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

163. 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
164. *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
165. *ibid.* p. 100-110: *Space-time vs. particle-hole symmetries of scattering integrals*, V. Spicka, P. Lipavsky, and K. Morawetz
166. *ibid.* p. 353-363: *Relativistic Transport Equations with Generalized Mass Shell Constraints*, L. Mornas, and K. Morawetz

2000

167. 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
168. *ibid.* pr5-179-182: *Nonlocal kinetic theory, I. Formation of correlations*, K. Morawetz, P. Lipavský, V. Spička
169. *ibid.* pr5-183-186: *Nonlocal kinetic theory, II. Transport and virial corrections*, K. Morawetz, P. Lipavský, V. Spička
170. 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
171. *ibid.* p. 93: *Nonlinear current in high electric fields beyond linear response*, K. Morawetz

2001

172. 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
173. 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

174. 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
175. 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

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*

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

126. 24.2.-28.2.: DPG spring meeting of nuclear physics section in Salzburg: *Relativistic kinetic
theory and nucleon-meson-systems*

1993

127. 23. - 26.3.: DPG - spring meeting of nuclear physics section in Mainz: *Density fluctuations
in dense hot nonequilibrium matter*

1994

128. 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

129. 13.3.-17.3.: DPG spring meeting of nuclear physics section in Köln: *Memory-effects and bound states in nuclear matter*
130. 20.2.-23.2.: DPG spring meeting of plasma physics section Innsbruck: *Memory effects and virial corrections in nonideal plasmas*

1996

131. 18.3.-21.3.: DPG spring meeting of plasma physics section Rostock:
-*Memory effects and virial corrections in nonideal plasmas*
132. -*Nonideal plasmas under the influence of strong fields*
133. -*Stopping power in nonideal degenerated plasmas*
134. 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*
135. -*Two particle correlations in high Coulomb fields*
136. -*Critical density fluctuations and the damping of giant resonances*

1997

137. 3.3.-6.3.: DPG spring meeting of plasma physics section Mainz:
-*Virial corrections to the Landau theory of quasiparticle transport*
138. -*Der Aufbau von Korrelationen in dichten Plasmen*
139. -*Stopping Power in starken Feldern*
140. -*Zeitabhängige Korrelationen in dichten Plasmen*
141. -*Untersuchung zum Schottky-Rauschen in Speicherringen*, A. Selchow, K. Morawetz, G. Röpke
142. 24.2.-28.2.: DPG spring meeting of nuclear physics section in Göttingen:
-*Virial corrections to the Landau theory of quasiparticle transport*
143. -*Dissipation and entropy production in coarse grained Vlasov equations*, K. Morawetz, P.G. Reinhard, R. Walke
144. -*Formation of correlations and energy-conservation at short time scales*, K. Morawetz, H.S. Koehler
145. -*Vlasov simulations for highly excited nuclei*, R. Walke, K. Morawetz, G. Röpke
146. -*Collective excitations in hot nuclear matter*, U. Fuhrmann, K. Morawetz, G. Röpke

1998

147. 9.3.-13.3.: DPG spring meeting of plasma physics section Bayreuth:
-*Correlation dynamics in plasmas at short time scales*, M. Bonitz, K. Morawetz
148. -*Nonlocal corrections to the Boltzmann equation for dense plasmas*, K. Morawetz, V. Spička, P. Lipavský

149. 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
150. 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
151. -*Giant octupole resonance simulations*, R. Walke, K. Morawetz, P. Schuck, U. Fuhrmann
152. 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

153. 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
154. 15.3.-19.3.: DPG spring meeting of short time physics section in Heidelberg:
-*Aufbau von Korrelationen in Plasmen auf kurzen Zeitskalen*, K. Morawetz
155. 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

156. 19.3.-23.3.: DPG spring meeting of nuclear physics section Erlangen:
-*Dynamical constraints on phase transitions*, K. Morawetz
157. -*Mid-rapidity charge distribution in peripheral heavy ion collisions*, K. Morawetz, P. Lipavský, J. Normand, D. Cussol, J. Colin, B. Tamain
158. 2.4.-6.4.: DPG spring meeting of plasma physics section Berlin:
-*On a correspondence between classical and quantum particle systems*, K. Morawetz
159. -*Response function for interacting quantum liquids* K. Morawetz, U. Fuhrmann

2002

160. 11.3.-15.3.: DPG spring meeting of solid state physics section Regensburg:
-*Electric field dependence of pairing temperature and tunneling*, K. Morawetz
161. -*Space-time versus particle-hole symmetry in quantum Enskog equations*, K. Morawetz, V. Spička, P. Lipavský

2003

162. 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
163. -*Shifts of the nuclear resonance in the vortex lattice in $YBa_2Cu_3O_7$* , K. Morawetz, P. Lipavský, J. Kolaček, E. H. Brandt
164. -*Formation of three-particle clusters in hetero-junctions and MOSFET structures*, K. Morawetz, E. Nakhmedov

2004

165. 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
166. -*Consequences of coarse graining Vlasov equations*, K. Morawetz, R. Walke

2005

167. 04.3.-09.3.: DPG spring meeting Berlin:
-*Electric fields above the surface of superconductors*, K. Morawetz, P. Lipavský, J. Koláček, J. Mares, E.H. Brandt, M. Schreiber
168. -*Correlations in many-body systems with two-time Green's functions*, K. Morawetz, H.S. Köhler
169. -Hauptvortrag: *Der Quantum-Zenon Effekt und seine Implikation für die Zeit* K. Morawetz
170. -*Quantum two-particle problem in finite systems*, B. Schmidt, K. Morawetz, M. Schreiber, A. Ficker, P. Lipavský

2006

171. 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
172. -*What is hidden behind memory effects ?*, K. Morawetz, P. Lipavský
173. -*Moleculardynamical simulation with effective quantum potentials*, C. Olbrich, K. Morawetz
174. -*Femtosecond formation of collective modes due to meanfield fluctuations*, K. Morawetz, B. Schmidt, M. Schreiber, P. Lipavský
175. -*Reduction of surface coverage due to geometrical steps*, C. Olbrich, K. Morawetz, S. Gemming, M. Schreiber
176. -*High resolution nc-AFM investigation of the adsorption of PTCDA on ultrathin KBr films*, C. Loppacher, U. Zerweck, L.M. Eng, S. Gemming, G. Seifert, C. Olbrich, K. Morawetz, M. Schreiber

2007

177. 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
178. -*Ginzburg-Landau theory of superconducting surfaces under electric fields*, K. Morawetz, P. Lipavský, J. Koláček, E.H. Brandt, T. Yang
179. -*Phase diagram for interacting Bose systems*, M. Maennel, K. Morawetz, M. Schreiber

2008

180. 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
181. -*Dominant motion vs. localization in quasiperiodic chains*, K. Morawetz, M. Schreiber

182. -*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

183. -*Phase diagram for interacting Bose systems*, M. Maennel, K. Morawetz, M. Schreiber

2009

184. 23.3.-27.3.: DPG spring meeting Dresden:

-*Transport beyond the Fermi liquid picture of quasiparticles*, K. Morawetz

185. -*Discontinuity of capacitance at the onset of surface superconductivity*, K. Morawetz, P. Lipavský, J. Mares

2010

186. 22.3.-26.3.: DPG spring meeting Regensburg:

-*Conserving T-matrix theory of superconductivity*, K. Morawetz, P. Lipavský, M. Männel

2011

187. 14.3.-18.3.: DPG spring meeting Dresden:

-*Asymmetric Bethe-Salpeter equation for pairing and condensation*, K. Morawetz, P. Lipavský, M. Männel, B. Sopik

188. -*Change of critical temperature by electric fields*, K. Morawetz, P. Lipavský, J. Kolaček, E. H. Brandt

189. -*Spin and density response of interacting particles with spin-orbit coupling*, K. Morawetz, J. Kailasvuori, O. Bozat

190. -*Ginzburg-Landau theory for the early phase of morphogenesis of brine channels in sea ice*, S. Thoms, B. Kutschan, K. Morawetz, S. Gemming

2012

191. 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

192. -*A new method to calculate partition functions*, K. Morawetz

2013

193. 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

194. -*Quasiparticle parametrization of meanfields, Galilean invariance and universal response function*, K. Morawetz

2014

195. 30.3.-4.4.: DPG spring meeting Dresden:

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

196. -*Formation of correlations at short time scales*, K. Morawetz

2015

197. 16.3.-20.3.: DPG spring meeting Berlin:
-*Universal short-time response and formation of correlations after quantum quenches*, K. Morawetz
198. -*Quantum transport and response with spin-orbit coupling in magnetic fields*, K. Morawetz
199. -*Asymmetric Bethe-Salpeter equation for pairing and condensation*, K. Morawetz, P. Lipavský

2017

200. 20.3.-24.3.: DPG spring meeting Dresden:
-*Dynamical charge and pseudospin currents in graphene and possible Cooper pair formation*, K. Morawetz
201. -*Nonequilibrium thermodynamics by nonlocal quantum kinetic theory*, K. Morawetz, P. Lipavský
202. -*Induced voltage in an open wire*, K. Morawetz, M. Gilbert, A. Trupp

2018

203. 11.3.-16.3.: DPG spring meeting Berlin:
-*Correlational latent heat by nonlocal quantum kinetic theory*, K. Morawetz
204. -*Transport in graphene and possible Cooper pair formation*, K. Morawetz
205. -*Conditions where RPA becomes exact in the high-density limit*, K. Morawetz, Vinod Ashokan, Renu Bala, Kare Narain Pathak
206. -*Anomaly transport in graphene and Weyl semimetals normally explained*, K. Morawetz

2.3 Public talks and lectures for educational work and schools

203. 26.05.1993, *Das Weltbild der modernen Physik*, lutheran student group Rostock
204. WS 1993/94, *Ethik und Wissenschaft*, seminar 2 h/week (30h), together with Dr. Bull (Theology) Uni Rostock
205. 18.10.1993, *Vom Können zum Sollen, Ethik der Wissenschaft*, catholic student group Rostock
206. 1994, *Zur antropologischen Relevanz der modernen Physik*, catholic student group Rostock
207. 1994, *Geschichte und Gegenwart der Teleologie*, meeting with Polish student group Rostock
208. WS 1994/95, *Physik und Philosophie*, seminar 1 h/week (15h) Uni Rostock
209. WS 1996/97, *Physik und Philosophie*, seminar 2 h/week (30h) Uni Rostock
210. 1997, *Naturkausalität und Freiheit*, "Ernst- Moritz- Schlick Kreis" Rostock

211. 1998, *Naturwissenschaft und Religion*, meeting at the Youth Education House Teterow Rostock
212. SS 1999, *Physik und Philosophie*, studium generale, 2 h/week (30h), together with M. Vogt, Uni Rostock
213. 28.02.2002, *Supraleitung*, Lehrertag Dresden am MPIPKS
214. 09.04.2002, *Geschichte der Zeit*, Opening lecture *Aspekte der Zeit* studium generale, TU Dresden and MPIPKS
215. 22.05.2002, *Das Phänomen Supraleitung*, J. A. Huelse Gymnasium Dresden
216. 24.05.2002, *Das Phänomen Supraleitung*, Gymnasium Dreikönigsschule Dresden
217. 03.-05.02.2003, *Leitung und Supraleitung*, Winterschool of Dresden schools (supported by Robert Bosch Stiftung)
218. 06.03.2003, *Supraleitung - Geschichte einer spannenden Entdeckung*, St. Afra Gymnasium Meissen
219. 22.05.2003, *Supraleitung - Geschichte einer spannenden Entdeckung*, Gymnasium Dresden
220. 05.06.2003, *Supraleitung - Geschichte einer spannenden Entdeckung*, Albrecht-Thaer Gymnasium Hamburg
221. 12.06.2003, *Zur Geschichte des deterministischen Weltbildes*, Akademisches-Donnerstags-Kolloquium, Seniorenakademie Dresden
222. 12.06.2003, *Supraleitung - Geschichte einer spannenden Entdeckung*, Martin-Andersen-Nexö Gymnasium Dresden
223. 14.06.2003, *Supraleitung - Geschichte einer spannenden Entdeckung*, X. Chemnitzer Schüler-Sommerschule
224. 21.11.2003, *Wenn die Eisenbahn anfgt zu schweben - Spannendes aus der Supraleitung*, Studium Generale, Lehrerweiterbildung TU-Chemnitz
225. 29.04.2004, *Supraleitung - Geschichte einer spannenden Entdeckung*, MPIPKS Dresden
226. 21.10.2004, *Supraleitung - Geschichte einer spannenden Entdeckung*, Kepler-Gymnasium Chemnitz
227. 29.10.2004, *Gott und das Weltbild der modernen Physik*, kath. Akademie Neustrelitz
228. 02.11.2004, *Wenn die Eisenbahn anfängt zu schweben-Spannendes aus der Supraleitung*, Seniorenkolleg Chemnitz
229. 12.04.2005, *Neues von der Supraleitung*, visiting Gymnasium Lyngby at MPIPKS Dresden
230. 18.07.2005, *Das Rätsel Zeit aus physikalischer Sicht*, XI. Chemnitzer Schüler-Sommerschule
231. 27.10.2005, *Das Rätsel Zeit aus physikalischer Sicht*, Verein zur Förderung der Sächsischen Physikolympiade e.V., Johannes-Kepler-Gymnasium Chemnitz
232. 06.12.2006, *Das Rätsel Zeit aus physikalischer Sicht*, Besuch des Gymnasiums Riesa am MPIPKS

233. 26.04.2007, *Das Rätsel Zeit aus physikalischer Sicht*, Besuch des Gymnasiums Dresden am MPIPKS
234. 27.07.2007, *Supraleitung - Geschichte einer spannenden Entdeckung*, Lehrertag, MPIPKS Dresden
235. 05.12.2007, *Das Rätsel Zeit aus physikalischer Sicht*, NOVALIS Forum Freiberg
236. 06.12.2007, *Das Rätsel Zeit aus physikalischer Sicht*, AGRICOLA Forum Chemnitz
237. 13.02.2008, *Das Rätsel Zeit aus physikalischer Sicht*, LEIBNIZ Forum Leipzig
238. 30.09.2008, *Das Rätsel Zeit aus physikalischer Sicht*, visiting teachers, FZ Dresden-Rossendorf
239. 15.12.2008, *Supraleitung - Geschichte einer spannenden Entdeckung*, Schülerdokter, MPIPKS Dresden
240. 13.02.2009, *Simulation von Nanobauteilen*, Lehrertag, FZ Dresden-Rossendorf
241. 30.10.2010, *Das Quantenphänomen Supraleitung*, MIND-Studentenakademie 2010, Köln
242. 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. Lipavsky
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. Lipavsky

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*

3.2 Poster at DPG spring meetings

1991

93. 12.3. - 14.3.: DPG spring meeting of plasma physics section in Kiel: *Heiße Elektronen in partiell ionisierten H-Plasmen*

1992

94. 23. - 25.3.: DPG spring meeting of plasma physics section in Hannover: *Impact ionization of nonideal plasmas in strong electric fields*

1993

95. 9. - 11.3.: DPG spring meeting of plasma physics section in Greifswald: *Nonlinear transport of plasmas in strong electric fields*

1994

96. 7.3.-11.3.: DPG spring meeting of plasma physics section Erlangen: *Plasma Instabilities and anisotropy-effects in nonequilibrium*
97. 21.3.-25.3.: DPG spring meeting of nuclear physics section in Munich: *In-medium relativistic kinetic theory and critical scattering*

1995

98. 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*
99. -*Stopping power and energy transfer in nonideal plasmas for inertial fusion*
100. 13.3.-17.3.: DPG spring meeting of nuclear physics section in Köln:
-*The in-medium two-particle problem in high fields*
101. -*Deuteron formation in hot dense matter*
102. -*Quantum effects in heavy ion collision simulations*
103. -*Generalized quantum transport with memory effects and virial corrections in dense nuclear matter*

1997

104. 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
105. -*The contribution of density fluctuations to the damping of giant resonances*, K. Morawetz, M. DiToro, U. Fuhrmann

1998

106. 9.3.-13.3.: DPG spring meeting of plasma physics section Bayreuth:
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167. -*Condensation of bound states and pairs in interacting Fermi gases*, M. Maennel, K. Morawetz, P. Lipavsky, M. Schreiber

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185. *-Universal short-time response and formation of correlations after quantum quenches*, K. Morawetz
186. *Huddle-behavior simulation of emperor penguins*, F. Morawetz, K. Morawetz, D. Zitterbart
187. *-Exciton-light binding and lifetime of polaritons*, H. Lagemann, K. Morawetz
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4. DOCUMENTS

Diploma

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Habilitation (German)

Qualification aux fonctions de Professeur des universités (French)

Lecture permission (German)

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Prize of best publication from Charles University Prague

Professorship at FH Münster