

Steffen A. Bass: Publications and Presentations

Refereed Articles

132. *Systematic Monte-Carlo studies of dijets at RHIC using the VNI/BMS parton cascade*
C.E. Coleman-Smith, B. Müller and **S.A. Bass**
Nucl. Phys. **A904-905** (2013) 759-762
131. *Collisional vs. Radiative Energy Loss of Heavy Quark in a Hot and Dense Nuclear Matter*
S. Cao, G.-Y. Qin, **S.A. Bass** and B. Müller
Nucl. Phys. **A904-905** (2013) 653-656 e-Print: arXiv:1209.5410
130. *Center Domains and their Phenomenological Consequences*
M. Asakawa, **S.A. Bass** and B. Müller
Phys. Rev. Lett. **110** (2013) 202301 e-Print: arXiv:1208.2426 [nucl-th]
129. *Model and parameter dependence of heavy quark energy loss in a hot and dense medium*
S. Cao and **S.A. Bass**
J. Phys. **G40** (2013) 085103, e-Print: arXiv:1205.2396 [nucl-th]
128. *Probing the QCD Critical Point with Relativistic Heavy-Ion Collisions*
S.A. Bass, H. Petersen, C. Quammen, H. Canary, C.G. Healey and R.M. Taylor III
Central Eur. J. Phys. **10** (2012) 1278-1281, e-Print: arXiv:1202.0076
127. *A systematic study of the sensitivity of triangular flow to the initial state fluctuations in relativistic heavy-ion collisions*
H. Petersen, R. La Placa and **S.A. Bass**
J. Phys. **G39** (2012) 055102, e-Print: arXiv:1201.1881 [nucl-th]
126. *Thermalization of charm quarks in infinite and finite QGP matter*
S. Cao and **S.A. Bass**
Phys. Rev. **C84** (2011) 064902, e-Print: arXiv:1108.5101 [nucl-th]
125. *Longitudinal correlation of the triangular flow event plane in a hybrid approach with hadron and parton cascade initial conditions*
H. Petersen, C. Greiner, V. Bhattacharya, and **S.A. Bass**
Phys. Rev. **C84** (2011) 054908, e-Print: arXiv:1105.0340 [nucl-th]
124. *What do we know about the viscosity of QCD matter?*
S.A. Bass,
Nucl. Phys. **A862-863** (2011) 174-179
123. *Elliptic flow in 200 A GeV Au+Au collisions and 2.76 A TeV Pb+Pb collisions: insights from viscous hydrodynamics + hadron cascade hybrid model*
H. Song, **S.A. Bass** and U.W. Heinz
Phys. Rev. **C83** (2011) 054912, e-Print: arXiv:1103.2380 [nucl-th]

122. *Hadron spectra and elliptic flow for 200 A GeV Au+Au collisions from viscous hydrodynamics coupled to a Boltzmann cascade*
H. Song, **S.A. Bass**, U.W. Heinz, T. Hirano and C. Shen,
Phys. Rev. **C83** (2011) 054910, e-Print: arXiv:1101.4638 [nucl-th]
121. *Implementing the LPM effect in a parton cascade model*
C.E. Coleman-Smith, **S.A. Bass**, Dinesh K. Srivastava,
Nucl. Phys. **A862-863** (2011) 275-278, e-Print: arXiv:1101.4895 [hep-ph]
120. *The QGP shear viscosity – elusive goal or just around the corner?*
C. Chen, **S.A. Bass**, T. Hirano, P. Huovinen, Z. Qiu, H. Song and U.W. Heinz,
J. Phys. **G38** (2011) 124045, e-Print: arXiv:1106.6350 [nucl-th]
119. *200 A GeV Au+Au collisions serve a nearly perfect quark-gluon liquid*
H. Song, **S.A. Bass**, U.W. Heinz, T. Hirano and C. Shen,
Phys. Rev. Lett. **106** (2011) 192301, e-Print: arXiv:1011.2783 [nucl-th]
118. *Constraining the initial state granularity with bulk observables in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV.*
H. Petersen, C. Coleman-Smith, **S.A. Bass** and R. Wolpert,
J. Phys. **G38** (2011) 045102, e-Print: arXiv:1012.4629 [nucl-th]
117. *Viscous QCD matter in a hybrid hydrodynamic+Boltzmann approach*
H. Song, **S.A. Bass** and U.W. Heinz,
Phys. Rev. **C83** (2011) 024912, e-Print: arXiv:1012.0555 [nucl-th]
116. *Medium-modified Jets and Initial State Fluctuations as Sources of Charge Correlations Measured at RHIC*
H. Petersen, T. Renk and **S.A. Bass**,
Phys. Rev. **C83** (2011) 014916, e-Print: arXiv:1008.3846 [nucl-th]
115. *Translation of collision geometry fluctuations into momentum anisotropies in relativistic heavy-ion collisions*
G-Y. Qin, H. Petersen, **S.A. Bass** and B. Müller,
Phys. Rev. **C82** (2010) 064903, e-Print: arXiv:1009.1847 [nucl-th]
114. *Anomalous Transport Processes in Turbulent non-Abelian Plasmas*
M. Asakawa, **S. A. Bass** and B. Müller,
Nucl. Phys. **A854** (2011) 76–80, e-Print: arXiv:1008.3496 [nucl-th]
113. *Shear Viscosity in a Perturbative Quark-Gluon-Plasma*
J. Fuini III, N.S. Demir, D.K. Srivastava and **S.A. Bass**,
J. Phys. **G38** (2011) 015004, e-Print: arXiv:1008.2306 [nucl-th]
112. *Triangular flow in event-by-event ideal hydrodynamics in Au+Au collisions at $\sqrt{s_{NN}} = 200A$ GeV*
H. Petersen, G.Y. Qin, **S.A. Bass** and B. Müller,
Phys. Rev. **C82** (2010) 041901, e-Print: arXiv:1008.0625 [nucl-th]

111. *Transport Theoretical Description of Collisional Energy Loss in Infinite Quark-Gluon Matter*
G. Shin, **S.A. Bass** and B. Müller,
J. Phys. **G37** (2010) 105112, e-Print: arXiv:1006.1668 [nucl-th]
110. *The freeze-out properties of hyperons in a microscopic transport model*
Z. Xie, P. Ning and **S.A. Bass**
J. Phys. **G37** (2010) 045002, e-Print: arXiv:0911.4410 [nucl-th]
109. *η/s of a Relativistic Hadron Gas at RHIC: Approaching the AdS/CFT bound?*
N. Demir and **S.A. Bass**
Nucl. Phys. **A830** (2009) 733C–736C, e-Print: arXiv:0907.4333 [nucl-th]
108. *Signals of the QCD Critical Point in Hydrodynamic Evolutions*
C. Nonaka, M. Asakawa, **S.A. Bass** and B. Müller,
Nucl. Phys. **A830** (2009) 291C–294C, e-Print: arXiv:0907.4435 [nucl-th]
107. *Shear-Viscosity to Entropy Density Ratio of a Relativistic Hadron Gas at RHIC: Approaching the AdS/CFT bound?*
N. Demir and **S.A. Bass**
Phys. Rev. Lett. **102** (2009) 172302, e-Print: arXiv:0812.2422 [nucl-th]
106. *Extracting hadronic viscosity from microscopic transport models*
N. Demir and **S.A. Bass**
Eur. Phys. J. **C62** (2009), 63-68.
105. *Systematic Comparison of Jet Energy-Loss Schemes in a realistic hydrodynamic medium*
S.A. Bass, C. Gale, A. Majumder, C. Nonaka, G.Y. Qin, T. Renk and J. Ruppert
Phys. Rev. **C79** (2009) 024901, e-Print: arXiv:0808.0908 [nucl-th]
104. *The 3D hydro + UrQMD model with the QCD critical point*
C. Nonaka and **S.A. Bass**
J. Phys. **G35** (2008) 104099.
103. *Systematic Comparison of Jet Energy-Loss Schemes in a 3D hydrodynamic medium*
S.A. Bass, C. Gale, A. Majumder, C. Nonaka, G.Y. Qin, T. Renk and J. Ruppert
J. Phys. **G35** (2008) 104064, e-Print: arXiv:0805.3271 [nucl-th]
102. *Transverse Rapidity Dependence of the Proton-Antiproton Ratio as a Signature of the QCD Critical Endpoint*
M. Asakawa, **S.A. Bass**, B. Müller and C. Nonaka,
Phys. Rev. Lett. **101** (2008) 122302, e-Print: arXiv:0803.2449 [nucl-th]
101. *Radiative jet energy loss in a three-dimensional hydrodynamical medium and high p_T azimuthal asymmetry of π^0 suppression at mid and forward rapidity at RHIC*
G.Y. Qin, J. Ruppert, S. Turbide, C. Gale, C. Nonaka and **S.A. Bass**,
Phys. Rev. **C76** (2007) 064907, e-Print: arXiv:0705.2575 [hep-ph]

100. *Jet modification in three dimensional fluid dynamics at next-to-leading twist*
A. Majumder, C. Nonaka and **S.A. Bass**,
Phys. Rev. **C76** (2007) 041902 Rapid Communications, e-Print Archive: nucl-th/0703019
99. *Longitudinal Broadening of Quenched Jets in Turbulent Color Fields*,
A. Majumder, B. Müller and **S.A. Bass**,
Phys. Rev. Lett. **99** (2007) 042301, e-Print Archive: hep-ph/0611135
98. *Anomalous Viscosity of an Expanding Quark-Gluon-Plasma*,
M. Asakawa, **S.A. Bass** and B. Müller,
J. Phys. **G34** (2007) S839–S842, e-Print Archive: nucl-th/0702007
97. *Hard and Soft Probe-Medium Interactions in a 3D Hydro+Micro Approach at RHIC*,
S.A. Bass, T. Renk, J. Ruppert and C. Nonaka,
J. Phys. **G34** (2007) S979–S984, e-Print Archive: nucl-th/0702079
96. *Photon Production in the Parton Cascade Model*,
S.A. Bass, T. Renk and D.K. Srivastava,
Nucl. Phys. **A783** (2007) 367–378.
95. *Jet-quenching in a 3D hydrodynamic medium*,
T. Renk, J. Ruppert, C. Nonaka and **S.A. Bass**,
Phys. Rev. **C75** (2007) 031902 Rapid Communications, e-Print Archive: nucl-th/0611027
94. *Space-time evolution of bulk QCD matter*
C. Nonaka and **S.A. Bass**,
Phys. Rev. **C75** (2007) 014902, e-Print Archive: nucl-th/0607018
93. *Anomalous Transport Processes in Anisotropically Expanding Quark-Gluon Plasmas*
M. Asakawa, **S.A. Bass** and B. Müller,
Prog. Theor. Phys. Vol. **116** (2007) 725–755, e-Print Archive: hep-ph/0608270
92. *SQM 2006: Theory Summary and Perspectives*
S.A. Bass,
J. Phys. **G32** (2006) S15–S28, e-Print Archive: nucl-th/0607056
91. *Anomalous Viscosity of an Expanding Quark-Gluon Plasma*
M. Asakawa, **S.A. Bass** and B. Müller,
Phys. Rev. Lett. **96** (2006) 252301, e-Print Archive: hep-ph/0603092
90. *3D Hydro+Cascade Model at RHIC*
C. Nonaka and **S.A. Bass**,
Nucl. Phys. **A774** (2006), 873–876, e-Print Archive: nucl-th/0510038
89. *Correlations in the parton recombination model*
S.A. Bass, R.J. Fries and B. Müller,
Nucl. Phys. **A774** (2006), 635–638, e-Print Archive: nucl-th/0510084

88. *Dynamics of the Landau-Pomeranchuk-Migdal Effect in Au+Au Collisions at 200 AGeV*
T. Renk, **S.A. Bass** and D.K. Srivastava,
Phys. Lett **B632** (2006) 632–637, e-Print Archive: nucl-th/0505059
87. *Perturbative Dynamics of Strangeness Production at RHIC*
D.Y. Chang, **S.A. Bass** and D.K. Srivastava,
J. Phys. **G31** (2005) S1005-S1010
86. *Thermal Recombination: Beyond the Valence Quark Approximation*
B. Müller, R.J. Fries and **S.A. Bass**,
Phys. Lett. **B618** (2005) 77–83, e-Print Archive: nucl-th/0503003
85. *What do we learn from strangeness at RHIC?*
S.A. Bass,
J. Phys. **G31** (2005) S733–S740
84. *Possible Resolution of the D-Paradox*
C. Nonaka, B. Müller, **S.A. Bass** and M. Asakawa,
Phys. Rev. **C71** (2005) 051901 Rapid Communication, e-Print Archive: nucl-th/0501028
83. *Correlated Emission of Hadrons from Recombination of Correlated Partons*
R.J. Fries, **S.A. Bass** and B. Müller,
Phys. Rev. Lett. **94** (2005) 122301, e-Print Archive: nucl-th/0407102
82. *Recombination + fragmentation at RHIC: elliptic flow*
C. Nonaka, B. Müller, **S.A. Bass**, R.J. Fries and M. Asakawa,
J. Phys. **G31** (2005) S429-S435
81. *Intensity interferometry of direct photons emitted in Au+Au collisions*
S.A. Bass, B. Müller and D.K. Srivastava,
Phys. Rev. Lett. **93** (2004) 162301, e-Print Archive: nucl-th/0404050
80. *Strangeness Production at RHIC in the Perturbative Regime*
D.Y. Chang, **S.A. Bass** and D.K. Srivastava,
J. Phys. **G30** (2004) L7 , e-Print Archive: nucl-th/0403034
79. *Strangeness dynamics and transverse pressure in relativistic nucleus-nucleus collisions*
E. L. Bratkovskaya, M. Bleicher, M. Reiter, S. Soff, H. Stoecker, M. van Leeuwen, **S.A. Bass** and W. Cassing,
Phys. Rev. **C69** (2004) 054907, e-Print Archive: nucl-th/0402026
78. *RHIC Physics with the Parton Cascade Model*
S.A. Bass, B. Müller and D.K. Srivastava,
J. Phys. **G30** (2004) S1283-S1286, e-Print Archive: nucl-th/0403033
77. *Elliptic flow of resonances at RHIC: probing final state interactions and the structure of resonances*
C. Nonaka, M. Asakawa, **S.A. Bass**, R.J. Fries and B. Müller,
Phys. Rev. **C69** (2004) 031902 Rapid Communications, e-Print Archive: nucl-th/0312081

76. *Elliptic flow of multi-strange particles: fragmentation, recombination and hydrodynamics*
C. Nonaka, R.J. Fries and **S.A. Bass**,
Phys. Lett. **B583** (2004) 73–78, e-Print Archive: nucl-th/0308051
75. *Charge Fluctuation Observables at RHIC*
C. Nonaka, **S.A. Bass** and M. Asakawa,
J. Phys. **G30** (2004) S243–S249.
74. *Hadron production in heavy ion collisions: Fragmentation and recombination from a dense parton phase*
R.J. Fries, B. Müller, C. Nonaka and **S.A. Bass**,
Phys. Rev. **C68** (2003) 044902, e-Print archive: nucl-th/0306027
73. *Transverse momentum distribution of net baryon number at RHIC*
S.A. Bass, B. Müller and D.K. Srivastava,
J. Phys. **G29** (2003) L51–L58, e-Print archive: nucl-th/0307027
72. *Hadronization in heavy ion collisions: recombination or fragmentation?*
R.J. Fries, B. Müller, C. Nonaka and **S.A. Bass**
J. Phys. **G30** (2004) S223–S228, e-Print archive: nucl-th/0305079
71. *Net baryon density in Au + Au collisions at the Relativistic Heavy Ion Collider*
S.A. Bass, B. Müller and D.K. Srivastava,
Phys. Rev. Lett. **91** (2003) 052302, e-Print archive: nucl-th/0212103
70. *Hadronization in heavy ion collisions: Recombination and fragmentation of partons*
R.J. Fries, B. Müller, C. Nonaka and **S.A. Bass**
Phys. Rev. Lett. **90** (2003) 202303, e-Print archive: nucl-th/0301087
69. *Light from cascading partons in relativistic heavy-ion collisions*
S.A. Bass, B. Müller and D.K. Srivastava,
Phys. Rev. Lett. **90** (2003) 082301, e-Print archive: nucl-th/0209030
68. *Semi-hard scattering of partons at SPS and RHIC: A study in contrast*
S.A. Bass, B. Müller and D.K. Srivastava,
Phys. Rev. **C66** (2002) 061902 (Rapid Communications, 5 pages), e-Print archive: nucl-th/0210042
67. *Parton rescattering and screening in Au+Au collisions at RHIC*
S.A. Bass, B. Müller and D.K. Srivastava,
Phys. Lett. **B551** (2003) 277–283, e-Print archive: nucl-th/0207042
66. *Particle Correlations at RHIC - Scrutiny of a Puzzle*
S. Soff, **S.A. Bass**, D.H. Hardtke and S.Y. Panitkin,
Nucl. Phys. **A715** (2003) 801–804, e-Print archive: nucl-th/0209055
65. *Parton rescattering and screening in Au+Au collisions at RHIC*
S.A. Bass, B. Müller and D.K. Srivastava,
Nucl. Phys. **A715** (2003) 813–816.

64. *(Strange) meson interferometry at RHIC*
S. Soff, **S.A. Bass**, D.H. Hardtke and S.Y. Panitkin,
J. Phys. **G28** (2002) 1885–1894, e-Print archive: nucl-th/0202019
63. *Strangeness Production in Microscopic Transport Models*
S.A. Bass.
J. Phys. **G28** (2002) 1543–1552, e-Print archive: nucl-th/0112046
62. *Overpopulation of $\bar{\Omega}$ in pp collisions:
a way to distinguish statistical hadronization from string dynamics*
M. Bleicher, F.M. Liu, A. Keraenen, J. Aichelin, **S.A. Bass**, F. Becattini, K. Redlich and
K. Werner,
Phys. Rev. Lett. **88** (2002) 202501, e-Print archive: hep-ph/0111187
61. *Chemical freezeout parameters at RHIC from microscopic model calculations*
L.V. Bravina, E.E. Zabrodin, **S.A. Bass**, A. Faessler, C. Fuchs, M.I. Gorenstein, W. Greiner,
S. Soff, H. Stöcker and H. Weber,
Nucl. Phys. **A698** (2002) 383, e-Print Archive: nucl-th/0104023
60. *Kaon Interferometry: a sensitive probe to the QGP equation of state?*
S. Soff, **S.A. Bass**, D.H. Hardtke and S.Y. Panitkin,
Phys. Rev. Lett. **88** (2002) 072301, e-Print archive: nucl-th/0109055
59. *Microscopic Reaction Dynamics at SPS and RHIC*
S.A. Bass.
Nucl. Phys. **A698** (2002) 164–170, e-Print archive: nucl-th/0104040
58. *Equation of state of resonance-rich matter in the central cell in heavy-ion collisions at
 $\sqrt{s}=200$ AGeV*
L.V. Bravina, E.E. Zabrodin, **S.A. Bass**, M. Bleicher, M. Brandstetter, Amand Faessler,
C. Fuchs, W. Greiner, S. Soff and H. Stöcker,
Phys. Rev. **C63** (2001) 064902, e-Print archive: hep-ph/0010172.
57. *Pion Interferometry at RHIC: Probing a thermalized Quark-Gluon-Plasma?*
S. Soff, **S.A. Bass** and A. Dumitru.
Phys. Rev. Lett. **86** (2001) 3981–3984, e-Print archive: nucl-th/0012085
56. *Local equilibrium in heavy ion collisions. Microscopic analysis of a central cell versus infinite
matter*
L.V. Bravina, E.E. Zabrodin, **S.A. Bass**, M. Bleicher, M. Brandstetter, S. Soff, H. Stöcker
and W. Greiner.
Phys. Rev. **C62** (2000) 064906, e-Print archive: nucl-th/0011011.
55. *Probing Hadronization with Strangeness*
S.A. Bass, P. Danielewicz, A. Dumitru and S. Pratt,
J. Phys. **G27** (2001) 635–644.

54. *Enhanced Strange Particle Yields - Signal of a Phase of Massless Particles ?*
Sven Soff, D. Zschesche, M. Bleicher, C. Hartnack, M. Belkacem, L. Bravina, E. Zabrodin,
S.A. Bass, H. Stöcker and W. Greiner,
J. Phys. **G27** (2001) 449–457, e-Print archive: nucl-th/0010103.
53. *Transition to resonance-rich matter in heavy-ion collisions at RHIC energies*
L.V. Bravina, E.E. Zabrodin, M. Bleicher, **S.A. Bass**, M. Brandstetter, Amand Faessler,
C. Fuchs, W. Greiner, M.I. Gorenstein, S. Soff and H. Stöcker,
J. Phys. **G27** (2001) 421–426, e-Print archive: nucl-th/0010088.
52. *Bremsstrahlung from a Microscopic Model of Relativistic Heavy Ion Collisions*
S.M.H. Wong, M. Belkacem, J.I. Kapusta, **S.A. Bass**, M. Bleicher and H. Stöcker.
Phys. Rev. **C63** (2000) 014903 (9 pages), e-Print archive: hep-ph/0008119
51. *Clocking hadronization in relativistic heavy ion collisions with balance functions*
S.A. Bass, P. Danielewicz and S. Pratt.
Phys. Rev. Lett. **85** (2000) 2689–2692, e-Print archive: nucl-th/0005044
50. *Enhanced antiproton production in Pb(160 AGeV)+Pb reactions: evidence for quark gluon matter?*
M. Bleicher, M. Belkacem, **S.A. Bass**, S. Soff, and H. Stöcker.
Phys. Lett. **B485** (2000) 133–138, e-Print archive: hep-ph/0004045
49. *Global observables and secondary interactions in central Au+Au reactions at $\sqrt{s} = 200$ AGeV*
M. Bleicher, **S.A. Bass**, L.V. Bravina, W. Greiner, S. Soff, H. Stöcker, N. Xu and
E. Zabrodin.
Phys. Rev. **C62** (2000) 024904 (7 pages), e-Print archive: hep-ph/9911442
48. *Dynamics of Hot Bulk QCD Matter: from the Quark-Gluon Plasma to Hadronic Freeze-Out*
S.A. Bass and A. Dumitru.
Phys. Rev. **C61** (2000) 064909 (24 pages), e-Print archive: nucl-th/0001033
47. *Last Call for RHIC Predictions*
S.A. Bass, M. Bleicher, W. Cassing, A. Dumitru, H.J. Drescher, K. Eskola, M. Gyulassy,
D. Kharzeev, Y. Kovchegov, Z. Lin, D. Molnar, J.Y. Ollitrault, S. Pratt, B. Schlei,
H. Sorge, J. Rafelski, R. Rapp, D. Rischke, J. Schaffner-Bielich, A. Snigirev, D.K. Srivastava,
J. Stachel, D. Teaney, R. Thews, S. Vance, I. Vitev, R. Vogt, X.N. Wang, B. Zhang
and J. Zimanyi,
Nucl. Phys. **A661** (1999) 205–260, e-print Archive: nucl-th/9907090.
46. *K-Factors in Parton Cascades at RHIC and SPS*
S.A. Bass and B. Müller.
Phys. Lett. **B471** (1999) 108–112, e-Print archive: nucl-th/9908014
45. *Strangeness enhancement in heavy ion collisions: evidence for quark gluon matter?*
S. Soff, **S.A. Bass**, M. Bleicher, L. Bravina, E. Zabrodin, H. Stöcker and W. Greiner.
Phys. Lett. **B471** (1999) 89–96, e-Print archive: nucl-th/9907026

44. *Dissociation Rates of J/Ψ 's with Comoving Mesons: Thermal vs. Nonequilibrium Scenario*
C. Spieles, R. Vogt, L. Gerland, **S.A. Bass**, M. Bleicher, H. Stöcker and W. Greiner.
J. Phys. **G25** (1999), 2351–2359, e-Print archive: hep-ph/9809441
43. *Modeling J/ψ production and absorption in a microscopic nonequilibrium approach*
C. Spieles, R. Vogt, L. Gerland, **S.A. Bass**, M. Bleicher, H. Stöcker and W. Greiner.
Phys. Rev. **C60** (1999) 054901 (15 pages), e-Print archive: hep-ph/9902337
42. *Lattice Gauge Theory of Colliding Nuclei*
S. A. Bass, B. Müller and W. Pöschl.
J. Phys. **G25** (1999), L109–L115, e-Print archive: nucl-th/9808011
41. *Relativistic Hadron-Hadron Collisions in the Ultra-Relativistic Quantum Molecular Dynamics Model*
M. Bleicher, E. Zabrodin, C. Spieles, **S.A. Bass**, C. Ernst, S. Soff, L. Bravina, M. Belkacem, H. Weber, H. Stöcker and W. Greiner.
J. Phys. **G25** (1999), 1859–1896.
40. *Deuterons and space-momentum correlations in high energy nuclear collisions*
B. Monreal, **S.A. Bass**, M. Bleicher, S. Esumi, W. Greiner, Q. Li, H. Liu, W.J. Llope, R. Mattiello, S. Panitkin, I. Sakrejda, R. Snellings, H. Sorge, C. Spieles, H. Stöcker, J. Thomas, S. Voloshin, F. Wang and N. Xu.
Phys. Rev. **C60** (1999) 031901 (Rapid Communication, 4 pages), e-Print archive: nucl-th/9904080
39. *Local equilibrium in heavy ion collisions. Microscopic model versus statistical model analysis*
L.V. Bravina, E.E. Zabrodin, M.I. Gorenstein, **S.A. Bass**, M. Belkacem, M. Bleicher, M. Brandstetter, C. Ernst, M. Hofmann, L. Neise, S. Soff, H. Weber, H. Stöcker and W. Greiner.
Phys. Rev. **C60** (1999) 024904 (14 pages), e-Print archive: hep-ph/9906548
38. *Direct Emission of multiple strange baryons in ultrarelativistic heavy-ion collisions from the phase boundary*
A. Dumitru, **S.A. Bass**, M. Bleicher, H. Stöcker and W. Greiner.
Phys. Lett. **B460** (1999) 411–416, e-print archive: nucl-th/9901046
37. *Hadronic freeze-out following a first order hadronization phase transition in ultrarelativistic heavy-ion collisions*
S.A. Bass, A. Dumitru, M. Bleicher, L. Bravina, E. Zabrodin, H. Stöcker and W. Greiner.
Phys. Rev. **C60** (1999) 021902 (Rapid Communications, 5 pages), e-Print archive: nucl-th/9902062
36. *Analysis of reaction dynamics at RHIC in a combined parton/hadron transport approach*
S.A. Bass, M. Hofmann, M. Bleicher, L. Bravina, E. Zabrodin, H. Stöcker and W. Greiner.
Phys. Rev. **C60** (1999) 021901 (Rapid Communications, 5 pages), e-Print archive: nucl-th/9902055

35. *Equilibrium and non-equilibrium effects in relativistic heavy-ion collisions*
L.V. Bravina, E.E. Zabrodin, M.I. Gorenstein, **S.A. Bass**, M. Belkacem, M. Bleicher, M. Brandstetter, C. Ernst, A. Faessler, W. Greiner, S. Soff, H. Stöcker and H. Weber.
Phys. Lett. **B459** (1999) 660–666, e-Print archive: hep-ph/9907062
34. *Dissociation of expanding c anti- c states in heavy ion collisions.*
C. Speies, R. Vogt, L. Gerland, **S.A. Bass**, M. Bleicher, L. Frankfurt, M. Strikman, H. Stöcker and W. Greiner.
Phys. Lett. **B458** (1999), 137–142, e-Print archive: hep-ph/9810486
33. *Distinguishing Hadronic Cascades from Hydrodynamical Models in Pb(160 AGeV)+Pb Reactions by Impact Parameter Variation*
M. Bleicher, M. Reiter, A. Dumitru, J. Brachmann, C. Speies, **S.A. Bass**, H. Stöcker and W. Greiner.
Phys. Rev. **C59** (1999) R1844–R1845, e-print archive: hep-ph/9811459
32. *The Origin of Transverse Flow at the SPS*
M. Bleicher, C. Speies, C. Ernst, L. Gerland, S. Soff, H. Stöcker, W. Greiner and **S. A. Bass**.
Phys. Lett. **B447** (1999) 227–232, e-Print archive: hep-ph/9803346
31. *Signatures of Quark-Gluon-Plasma formation in high energy heavy-ion collisions: A critical review*
S. A. Bass, M. Gyulassy, H. Stöcker and W. Greiner.
J. Phys. **G25** (1999) R1–R57 (topical review), e-print archive: hep-ph/9810281
30. *Unlike Particle Correlations and the Strange Quark Matter Distillation Process*
D. Ardoin, S. Soff, C. Speies, **S. A. Bass**, H. Stöcker, D. Gourio, S. Schramm, C. Greiner, R. Lednicky, V. L. Lyuboshitz, J.-P. Coffin and C. Kuhn,
Phys. Lett. **B446** (1999) 191–196.
29. *Critical review of Quark Gluon Plasma Signatures*
S. Scherer, **S.A. Bass**, M. Bleicher, M. Belkacem, L. Bravina, J. Brachmann, A. Dumitru, C. Ernst, L. Gerland, M. Hofmann, L. Neise, M. Reiter, S. Soff, C. Speies, H. Weber, E. Zabrodin, D. Zschesche, J.A. Maruhn, H. Stöcker and W. Greiner,
Prog. Part. Nucl. Phys. **42** (1999) 279–294.
28. *Reaction dynamics in Pb+Pb at the CERN/SPS: from partonic degrees of freedom to freeze-out*
S.A. Bass, H. Weber, C. Ernst, M. Bleicher, M. Belkacem, L. Bravina, S. Soff, H. Stöcker, W. Greiner and C. Speies,
Prog. Part. Nucl. Phys. **42** (1999) 313–322. e-print Archive nucl-th/9810077
27. *Local Thermal and Chemical Equilibrium and the Equation of State in Relativistic Heavy Ion Collisions*
L.V. Bravina, M. Brandstetter, M.I. Gorenstein, E.E. Zabrodin, M. Belkacem, M. Bleicher, **S.A. Bass**, C. Ernst, M. Hofmann, S. Soff, H. Stöcker and W. Greiner,
J. Phys. **G25** (1999) 351–361. e-Print archive: nucl-th/9810036

26. *Excitation Function of Energy Density and Partonic Degrees of Freedom in Relativistic Heavy Ion Collisions*
H. Weber, C. Ernst, M. Bleicher, L. Bravina, H. Stöcker, W. Greiner, C. Spieles and **S.A. Bass**.
Phys. Lett. **B442** (1998) 443–448. e-Print archive: nucl-th/9808021
25. *Are we close to the QGP? – non-equilibrium analysis of particle production in ultrarelativistic heavy ion collisions.*
S. A. Bass, M. Belkacem, M. Brandstetter, M. Bleicher, L. Gerland, J. Konopka, L. Neise, C. Spieles, S. Soff, H. Weber, H. Stöcker and W. Greiner.
Phys. Rev. Lett. **81** (1998) 4092–4095.
24. *Excitation Function of Energy Density and Partonic Degrees of Freedom in Relativistic Heavy Ion Collisions*
H. Weber, C. Ernst, **S.A. Bass**, C. Spieles, M. Bleicher, M. Belkacem, L. Bravina, H. Stöcker and W. Greiner.
Nucl. Phys. **A642** (1998) 121–129.
23. *Equation of State, Spectra and Composition of Hot and Dense Infinite Hadronic Matter in a Microscopic Transport Model*
M. Belkacem, M. Brandstetter, **S. A. Bass**, M. Bleicher, L. Bravina, M. I. Gorenstein, J. Konopka, L. Neise, C. Spieles, S. Soff, H. Weber, H. Stoecker and W. Greiner.
Phys. Rev. **C58** (1998) 1727–1733.
22. *Can Momentum Correlations proof Kinetic Equilibration in Heavy Ion Collisions at 160 AGeV?*
M. Bleicher, M. Belkacem, C. Ernst, H. Weber, L. Gerland, C. Spieles **S. A. Bass**, H. Stöcker and W. Greiner.
Phys. Lett. **B435** (1998) 9–12.
21. *Local Thermodynamical Equilibration in Central Au+Au Collisions at AGS*
L.V. Bravina, M.I. Gorenstein, M. Belkacem, **S.A. Bass**, M. Bleicher, M. Brandstetter, M. Hofmann, S. Soff, C. Spieles, H. Weber, H. Stoecker and W. Greiner.
Phys. Lett. **B434** (1998) 379–387.
20. *Intermediate mass excess of dilepton production in heavy ion collisions at BEVALAC energies*
C. Ernst, **S. A. Bass**, M. Belkacem, H. Stöcker and W. Greiner.
Phys. Rev. **C58** (1998) 447–456.
19. *Microscopic Models for Ultrarelativistic Heavy Ion Collisions*
S. A. Bass, M. Belkacem, M. Bleicher, M. Brandstetter, L. Bravina, C. Ernst, L. Gerland, M. Hofmann, S. Hofmann, J. Konopka, G. Mao, L. Neise, S. Soff, C. Spieles, H. Weber, L. A. Winckelmann, H. Stöcker, W. Greiner, C. Hartnack, J. Aichelin and N. Amelin.
Prog. Part. Nucl. Phys. **41** (1998) 225–370.
18. *Direct photons in Pb+Pb at CERN-SPS from microscopic transport theory*
A. Dumitru, M. Bleicher, **S.A. Bass**, C. Spieles, L. Neise, H. Stöcker and W. Greiner.
Phys. Rev. **C57** (1998) 3271–3275.

17. *Modelling the many-body dynamics of heavy ion collisions: Present status and future perspectives*
C. Hartnack, R.K. Puri, J. Aichelin, J. Konopka, **S.A. Bass**, H. Stöcker and W. Greiner.
Eur. Phys. J. **A1** (1998) 151–169.
16. *A Microscopic Calculation of Secondary Drell-Yan Production in Heavy-Ion Collisions*
C. Spieles, L. Gerland, N. Hammon, M. Bleicher, **S.A. Bass**, H. Stoecker, W. Greiner,
C. Lourenco and R. Vogt.
Euro. Phys. J. **C5** (1998) 349–355.
15. *Fluctuations and inhomogenities of energy density and isospin in Pb+Pb at the SPS*
M. Bleicher, L. Gerland, C. Spieles, A. Dumitru, **S.A. Bass**, M. Belkacem, M. Brandstetter,
C. Ernst, L. Neise, S. Soff, H. Weber, H. Stöcker and W. Greiner.
Nucl. Phys. **A638** (1998) 391–394.
14. *Intermediate mass dileptons from secondary Drell-Yan processes*
C. Spieles, L. Gerland, N. Hammon, M. Bleicher, **S.A. Bass**, H. Stoecker, W. Greiner,
C. Lourenco and R. Vogt.
Nucl. Phys. **A638** (1998) 507–510.
13. *Search for Production of Strangelets in Quark Matter using Particle Correlations*
S. Soff, D. Ardouin, C. Spieles, **S.A. Bass**, H. Stöcker, D. Gourio, S. Schramm, C. Greiner,
R. Lednicky, V.L. Lyuboshitz, J.P. Coffin and C. Kuhn
J. Phys. **G23** (1997) 2095–2105.
12. *Microscopic calculation of stopping, flow and electromagnetic radiation from 160 AMeV to 160 AGeV*
L.A. Winkelmann, **S.A. Bass**, M. Bleicher, M. Brandstetter, C. Ernst, L. Gerland, J.
Konopka, S. Soff, C. Spieles, H. Weber, C. Hartnack, J. Aichelin, N. Amelin, H. Stöcker
and W. Greiner
Nucl. Phys. **A610** (1996) 116–123.
11. *Neural networks for impact parameter determination*
S. A. Bass, A. Bischoff, J. A. Maruhn, H. Stöcker and W. Greiner
Phys. Rev. **C53** (1996) 2358–2363.
10. *Transverse energy dependence of neutron squeeze-out in relativistic heavy ion collisions*
S. A. Bass, C. Hartnack, H. Stöcker and W. Greiner
Z. Phys. **A352** (1995) 171–174.
9. *Azimuthal correlations of pions in relativistic heavy ion collisions at 1 GeV/nucleon*
S. A. Bass, C. Hartnack, H. Stöcker and W. Greiner
Phys. Rev. **C51** (1995) 3343–3356.
8. *Disappearance of flow*
S. Soff, **S. A. Bass**, C. Hartnack, H. Stöcker and W. Greiner
Phys. Rev. **C51** (1995) 3320–3325.

7. *Nucleon and baryon densities in heavy ion collisions at 1 GeV/nucleon*
S. A. Bass, C. Hartnack, H. Stöcker and W. Greiner
 Z. Phys. **A351** (1995) 359–360.
6. *π -N correlations probe the nuclear equation of state in relativistic heavy-ion collisions*
S. A. Bass, C. Hartnack, H. Stöcker and W. Greiner
 Phys. Rev. **C51** (1995) R12–R16.
5. *High p_t pions as probes of the early dense reaction phase in heavy ion collisions at 1 GeV/nucleon*
S. A. Bass, C. Hartnack, H. Stöcker and W. Greiner
 Phys. Rev. **C50** (1994) 2167–2172.
4. *Probing Δ resonance production in Au+Au collisions at 1 GeV/nucleon*
S. A. Bass, M. Hofmann, C. Hartnack, H. Stöcker and W. Greiner
 Phys. Lett. **B335** (1994) 289–294.
3. *Neural networks for impact parameter determination*
S. A. Bass, A. Bischoff, C. Hartnack, J. A. Maruhn, J. Reinhardt, H. Stöcker and W. Greiner
 J. Phys. **G20** (1994) L21–L26.
2. *Out-of-Plane Pion Emission in Relativistic Heavy-Ion Collisions – Spectroscopy of Δ Resonance Matter*
S. A. Bass, C. Hartnack, H. Stöcker and W. Greiner
 Phys. Rev. Lett. **71** (1993) 1144–1147.
1. *Is collective pion flow anticorrelated to nucleon flow?*
S. A. Bass, C. Hartnack, R. Mattiello, H. Stöcker and W. Greiner
 Phys. Lett. **B302** (1993) 381–385.

Articles submitted for publication

2. *Systematic Study of Charm Quark Energy Loss Using Parton Cascade Model*
 M. Younus, C.E. Coleman-Smith, **S.A. Bass** and D.K. Srivastava
 e-Print: arXiv:1309.1276
1. *Heavy quark dynamics and hadronization in ultra-relativistic heavy-ion collisions: collisional vs. radiative energy loss*
 S. Cao, G.-Y. Qin and **S.A. Bass**
 e-Print: arXiv:1308.0617

Books

2. *Pocketbook of Mathematics*,
 chapters 9 and 16, H. Stöcker (editor), Springer Publishing Co. New York 1997.
1. *Taschenbuch mathematischer Formeln und moderner Verfahren*,
 chapters 9 and 16, H. Stöcker (editor), Verlag Harri Deutsch, Thun, Switzerland 1992.

Multi-Media Publications

1. *CD-ROM Desktop Mathematik*,
hades, Verlag Harri Deutsch, Thun, Switzerland 1996.

Edited Proceedings Volumes

4. *Hot Quarks 2008*
Proceedings, Workshop for Young Scientists on the Physics of Ultrarelativistic Nucleus Nucleus Collisions (Hot Quarks 2008), Estes Park, CO, USA, July, 2008; published in European Journal of Physics **C62** (2009) 1-277.
Editors: **S.A. Bass**, H. Caines, M. Calderon de la Barca Sanchez, A. de Falco, C. Kuhn, J. Nagle, M. Nardi, C. Salgado and J. Velkovska.
3. *Hot Quarks 2006*
Proceedings, Workshop for Young Scientists on the Physics of Ultrarelativistic Nucleus Nucleus Collisions (Hot Quarks 2006), Villasimius, Sardinia, Italy, May 15-20, 2006; published in European Journal of Physics **C49** (2007) 1-391.
Editors: F. Antinori, **S.A. Bass**, A. de Falco, C. Kuhn, M. Nardi, T. Peitzmann, T. Ullrich, J. Velkovska and U.A. Wiedemann.
2. *Hot quarks 2004*
Proceedings, Workshop for Young Scientists on the Physics of Ultrarelativistic Nucleus Nucleus Collisions (Hot Quarks 2004), Snakedance, Taos Valley, USA, July 18-24, 2004; published in J. Phys. **G31** (2005) S1-S619.
Editors: F. Antinori, **S.A. Bass**, R. Bellwied, T. Ullrich, J. Velkovska and U.A. Wiedemann.
1. *Strangeness in Quark Matter 2003*
Proceedings, 7th International Conference on Strangeness in Quark Matter, Atlantic Beach, USA, March 12-17, 2003; published in J. Phys. **G30** (2004) 1-632.
Editors: **S.A. Bass**, B. Müller, G.S.F. Stephans and T. Ullrich.

Conference-Proceedings

38. *Heavy quark energy loss and thermalization in hot and dense nuclear matter*
S. Cao, G.-Y. Qin and **S.A. Bass**,
11th International Conference on Nucleus-Nucleus Collisions (NN2012), San Antonio, Texas, USA, May 27-June 1, 2012, J. Phys. Conf. Ser. **420** (2013) 012022 e-Print: arXiv:1209.5405
37. *Triangular flow in relativistic heavy ion collisions in an event-by-event hybrid approach*
H. Petersen, R. La Placa and **S.A. Bass**,
PANIC 2011, 24-29 Jul 2011. Cambridge, Massachusetts, USA; AIP Conf.Proc. **1441** (2012) 777-779
36. *High Energy-Density QCD Matter*
S.A. Bass,
Prog. Theor. Phys. Suppl. **193** (2012) 53-61

35. *Jet Modification in a Brick of QGP Matter*
C.E. Coleman-Smith, G.-Y. Qin, **S.A. Bass** and B. Müller,
PANIC 2011, 24-29 Jul 2011. Cambridge, Massachusetts, USA; AIP Conf.Proc. **1441**
(2012) 892-894
34. *Modeling of relativistic heavy-ion collisions with 3+1D hydrodynamic and hybrid models*
S.A. Bass
Proceedings, 4th Workshop On Particle Correlations And Femtoscopy (WPCF 2008) ,11-14
Sep 2008, Crakow, Poland; Acta Phys. Polon. **B40** (2009) 951–962.
33. *Space-time evolution of bulk QCD matter at RHIC*
C. Nonaka and **S.A. Bass**,
Proceedings, Workshop for Young Scientists on the Physics of Ultrarelativistic Nucleus
Nucleus Collisions (Hot Quarks 2006), Villasimius, Sardinia, Italy, May 15-20, 2006; Eur.
Phys. Journal **C49** (2007) 97–102
32. *Modeling of heavy-ion collisions at the Relativistic Heavy-Ion Collider,*
S.A. Bass and C. Nonaka,
Proceedings of the ISHIP 2006 Conference, Frankfurt, Germany, April 2006; Int. J. Mod.
Phys. **E16** (2007) 729–741
31. *Transverse Pressure in Relativistic Nuclear Collisions: Evidence for Partonic Interactions?*
M. Bleicher, E.L. Bratkovskaya, M. Reiter, S. Soff, Horst Stöcker, D. Bandyopadhyay, M.
van Leeuwen, **S.A. Bass** and W. Cassing,
Acta Phys.Hung. **A24** (2005) 181–188.
30. *Hadronization at RHIC: Interplay of Recombination and Fragmentation*
S.A. Bass, R.J. Fries and C. Nonaka,
Proceedings of the 32nd International Conference on High Energy Physics, Beijing, China,
August 16-22, 2004.
29. *RHIC Physics with the Parton Cascade Model*
S.A. Bass, B. Müller and D.K. Srivastava,
Proceedings of the 20th International Winter Workshop on Nuclear Dynamics, Trelawny
Beach, Jamaica, March 15-20, 2004.
28. *Hadronization at RHIC: Interplay of Recombination and Fragmentation*
S.A. Bass, R.J. Fries and C. Nonaka,
Proceedings of the NATO Advanced Studies Institute “*Structure and Dynamics of Element-
ary Matter*”, Kemer, Turkey, September 22 - Oct. 2, 2003.
27. *Probing Hadronization with Strangeness*
S.A. Bass, M. Bleicher, J. Aichelin, F. Becattini, A. Keränen, F.M. Liu, K. Redlich and
K. Werner,
Proceedings of the 18th International Winter Workshop on Nuclear Dynamics, Nassau,
Bahamas, January 20-27, 2002.

26. *QGP Theory: Status and Perspectives*
S.A. Bass,
 Proceedings of the Fourth International Conference on Physics and Astrophysics of Quark-Gluon Plasma (ICPAQGP-2001) Jaipur (India), 26-30 Nov. 2001, Pramana in print, e-Print archive: nucl-th/0202010

25. *Collective Evolution of Hot QCD Matter from the QGP to Freeze-Out*
 A. Dumitru and **S.A. Bass**,
 Proceedings of CIPANP2000, 7th Conference on the Intersections of Particle and Nuclear Physics, May 22-28, 2000, Quebec City, Canada, AIP Conference Proceedings 549, edited by Z. Parsa and W. Marciano, e-print Archive: nucl-th/0007065.

24. *Transport-theoretical analysis of reaction dynamics, particle production and freeze-out at RHIC*
S.A. Bass, A. Dumitru, M. Bleicher, H. Stöcker and W. Greiner,
 Proceedings of the International Symposium on QCD and Multiparticle Production (ISMD99) at Brown University, RI, August 9–13, 1999, to be published by World Scientific.

23. *Analysis of Au+Au collisions at RHIC with combined parton/hadron transport approaches*
S.A. Bass, A. Dumitru, M. Bleicher, H. Stöcker and W. Greiner,
 in *Heavy Ion Physics from BEVALAC to RHIC*, edited by R. Seto, World Scientific Publ. Co., 1999, p. 136–140.

22. *Physics Opportunities at RHIC and LHC*
 S. Scherer, **S.A. Bass**, M. Belkacem, M. Bleicher, J. Brachmann, A. Dumitru, C. Ernst, L. Gerland, N. Hammon, M. Hofmann, J. Konopka, L. Neise, M. Reiter, S. Schramm, S. Soff, C. Spieles, H. Weber, D. Zschesche, J.A. Maruhn, H. Stöcker and W. Greiner,
 Proceedings of the Klaus Kinder-Geiger Memorial Workshop, e-print Archive: hep-ph/9903392.

21. *Multiple Sources for Meson- and Baryon-Radiation in High Energy Nucleus-Nucleus Collisions*
 S. Soff, **S.A. Bass**, S. Schramm, M. Belkacem, M. Bleicher, M. Brandstetter, L. Bravina, C. Ernst, L. Gerland, C. Spieles, H. Weber, H. Stöcker and W. Greiner.
 in *Measuring the Size of Things in the Universe: HBT Interferometry and Heavy Ion Physics*, edited by S. Costa, S. Albergo, A. Insolia and C. Tuve, World Scientific Publ. Co. (1998), p. 221–233.

20. *Energy densities in central Pb+Pb collisions at the CERN/SPS*
S.A. Bass,
 Proceedings of the RIKEN BNL Research Center Workshop, Volume 9, “High Density Matter in AGS, SPS and RHIC Collisions”, July 11 1998.

19. *Hadrochemical vs. Microscopic Analysis of Particle Production and Freeze-out in Ultrarelativistic Heavy Ion Collisions*
S.A. Bass, S. Soff, M. Belkacem, M. Brandstetter, M. Bleicher, L. Gerland, J. Konopka, L. Neise, C. Spieles, H. Weber, H. Stöcker and W. Greiner.
 in *Advances in Nuclear Dynamics 4*, edited by W. Bauer, Plenum Press, NY, 1998.

18. *Relativistic Heavy Ion Collisions: A Chance to Extend the Periodic System of Elements into the Sectors of Strangeness and Antimatter*
M. Bleicher, **S.A. Bass**, M. Bender, J. Brachmann, M. Brandstetter, T. Bürvenich, A. Dumitru, U. Eichmann, C. Ernst, L. Gerland, W. Greiner, J. Konopka, J. Maruhn, S.K. Patra, P.K. Panda, K. Rutz, S. Soff, C. Spieles, H. Stöcker and H. Weber.
Lectures in theoretical physics, given at the VIII Jorge Andre Swieca Summerschool, Ed. C. A. Bertulani et al., World Scientific Publ. Co. (1997), p. 29–135.
17. *The UrQMD contribution to “Open Standards Code at RHIC”*
S.A. Bass, H. Weber, M. Belkacem, M. Bleicher, M. Brandstetter, C. Ernst, L. Gerland, J. Konopka, S. Soff, C. Spieles, H. Stöcker and W. Greiner.
Proceedings of the RIKEN BNL Research Center Workshop, Volume 1, “Open Standards for Cascade Models for RHIC”, June 23-27 1997.
16. *Relativistic Heavy Ion Collisions: A Chance to extend the Periodic System of Elements into the Sectors of Strangeness and Antimatter*
M. Bleicher, **S.A. Bass**, M. Bender, J. Brachmann, M. Brandstetter, T. Bürvenich, A. Dumitru, U. Eichmann, C. Ernst, L. Gerland, W. Greiner, J. Konopka, J. Maruhn, S.K. Patra, P.K. Panda, K. Rutz, S. Soff, C. Spieles, H. Stöcker and H. Weber.
Proceedings of the VII Jorge Andre Swieca Summer School, Campos do Jordao, Brazil, 1997, published in *Nuclear Physics*, edited by C.A. Bertulani, M.E. Bracco, B.V. Carlson and M. Nielsen, World Scientific, Singapore, 1997.
15. *Microscopic analysis of thermodynamic parameters from 160 MeV/N to 160 GeV/N*
M. Bleicher, **S.A. Bass**, M. Belkacem, J. Brachmann, M. Brandstetter, C. Ernst, L. Gerland, J. Konopka, S. Soff, C. Spieles, H. Weber, H. Stöcker and W. Greiner.
Proceedings of the 35th International Winter Meeting on Nuclear Physics, Bormio, Italy, 26 Jan - 1 Feb 1997. e-Print archive: nucl-th/9704065
14. *Resonance lifetimes and time delays in the URQMD approach*
S.A. Bass, M. Belkacem, M. Bleicher, M. Brandstetter, C. Ernst, L. Gerland, J. Konopka, S. Soff, C. Spieles, H. Weber, L.A. Winkelmann, C. Hartnack, J. Aichelin, N. Amelin, H. Stöcker, S. Pratt, P. Danielewicz and W. Greiner.
Proceedings of the International Workshop XXV on Gross Properties of Nuclei and Nuclear Excitations: QCD Phase Transitions (Hirschegg 97), January 13th - 18th, Hirschegg, Kleinwalsertal, Austria.
13. *Signatures of dense hadronic matter in ultrarelativistic heavy ion collisions*
L.A. Winkelmann, C. Ernst, L. Gerland, J. Konopka, S. Soff, **S.A. Bass**, M. Bleicher, M. Brandstetter, A. Dumitru, C. Spieles, H. Weber, C. Hartnack, J. Aichelin, N. Amelin, H. Stöcker and W. Greiner.
Proceedings of the RHIC Summer Study 1996: Brookhaven Theory Workshop on Relativistic Heavy Ions, Upton (USA), 1996.
12. *Collective flow in heavy ion reactions and the properties of excited nuclear matter*
J. Konopka, **S. A. Bass**, M. Bleicher, M. Brandstetter C. Ernst, L. Gerland, W. Greiner,

- S. Soff, C. Spieles, H. Stoecker, H. Weber and L. A. Winckelmann.
Proceedings of the 1st Catania Relativistic Ion Studies (CRIS '96), Catania (Italy), 1996.
11. *Extracting the equation of state from a microscopic non-equilibrium model*
C. Spieles, A. Dumitru, **S.A. Bass**, M. Bleicher, J. Brachmann, M. Brandstetter, C. Ernst, L. Gerland, J. Konopka, S. Soff, H. Weber, L.A. Winckelmann, J. Maruhn, H. Stoecker and W. Greiner
Proceedings of the 14th International Conference on Particles and Nuclei (PANIC 96), Williamsburg (USA), 1996.
 10. *Nucleus nucleus collisions at highest energies*
M. Bleicher, N. Amelin, **S.A. Bass**, M. Brandstetter, A. Dumitru, C. Ernst, L. Gerland, J. Konopka, C. Spieles, H. Weber, L.A. Winckelmann and H. Stoecker
Proceedings of the International Conference on Nuclear Physics at the Turn of the Millennium: Structure of Vacuum and Elementary Matter, in Wilderness (South Africa), 1996, edited by H. Stöcker, A. Gallmann and J. Hamilton, World Scientific Publishing Co., Singapore.
 9. *URQMD - a new molecular dynamics model from GANIL to CERN energies*
S.A. Bass, L.A. Winckelmann, M. Bleicher, M. Brandstetter, C. Ernst, L. Gerland, J. Konopka, S. Soff, C. Spieles, H. Weber, C. Hartnack, J. Aichelin, N. Amelin and H. Stöcker
Proceedings of the International Conference on Nuclear Physics at the Turn of the Millennium: Structure of Vacuum and Elementary Matter, in Wilderness (South Africa), 1996, edited by H. Stöcker, A. Gallmann and J. Hamilton, World Scientific Publishing Co., Singapore.
 8. *What can we learn from pions about the reaction dynamics of relativistic heavy ion collisions?*
S. A. Bass, C. Hartnack, H. Stöcker and W. Greiner
Proceedings of the XXXIII International Winter Conference on Nuclear Physics in Bormio (Italy), 1995, 455–487.
 7. *Transverse flow of nucleons and pions and the nuclear equation of state*
C. Hartnack, **S. A. Bass**, J. Aichelin, H. Stöcker and W. Greiner,
in J. Aichelin and D. Ardouin, Editors, Proceedings of the conference on multiparticle correlations and nuclear reactions *CORINNE II* in Nantes (France) 1994, 143–152. World Scientific Publishing Co., Singapore.
 6. *Pion–nucleon interactions in relativistic heavy ion collisions: new sensitivities to the nuclear equation of state*
S. A. Bass, C. Hartnack, H. Stöcker and W. Greiner
Proceedings of the 7th International Conference on Nuclear Reaction Mechanisms, Villa Monastero, Varenna (Italy), 1994, 632–642.
 5. *Collective Effects of Mesons at SIS Energies*
S. A. Bass, C. Hartnack, R. Mattiello, H. Stöcker and W. Greiner
LBL-35984, Proceedings of the 9th Heavy Ion Study at the LBL in Berkeley, California (USA) 1993, 153–160.

4. *Collective Effects of Mesons at SIS Energies*
S. A. Bass, C. Hartnack, R. Mattiello, H. Stöcker and W. Greiner
 Proceedings of the NATO Advanced Studies Institute on *Hot and Dense Nuclear Matter* in Bodrum (Turkey) 1993, 463–474. NATO ASI series B, volume 335, Plenum Press, New York.
3. *Azimuthal anisotropies of pions in heavy-ion collisions: A new chance of probing the hot and dense reaction phase?*
S. A. Bass, C. Hartnack, H. Stöcker and W. Greiner
 Proceedings of the NATO Advanced Studies Institute on *Frontier Topics in Nuclear Physics* in Predeal (Rumania) 1993, 439–440. NATO ASI series B, volume 334, Plenum Press, New York.
2. *Collective effects of pions at SIS energies*
S. A. Bass, C. Hartnack, R. Mattiello, H. Stöcker and W. Greiner
 Proceedings of the XXXI International Winter Meeting on Nuclear Physics in Bormio (Italy) 1993, 344–357.
1. *Dynamics of Pions and Kaons in Relativistic Heavy Ion Collisions*
 C. Hartnack, **S. A. Bass**, J. Aichelin, H. Stöcker and W. Greiner
 Proceedings of the International Workshop on Gross Properties of Nuclei and Nuclear Excitation XX, Hirschegg, Kleinwalsertal (Austria), 1993, 36–50.

Talks and seminars

- 07/18/13 *A brief History of Hybrid Hydro+Micro Transport Models*
 Invited talk at the Workshop on Particle Sampling on the Cooper-Frye transition surface, July 18-20 2013, Schmitten, Germany
- 07/16/13 *UrQMD: History and little known Facts*
 Invited talk at the Workshop on Transport Theory in Heavy-Ion Collisions, July 15-17 2013, Schmitten, Germany
- 05/20/13 *Do you speak Klingon? The challenges of creating a successful collaboration between Physicists and Statisticians*
 Massive Datasets Transition Workshop at the Statistical and Applied Mathematics Institute (SAMSI), RTP, NC
- 03/12/13 *Heavy Quark Dynamics in the QGP*
 Invited talk at the International Workshop on Frontiers in Nuclear Physics, Guadaloupe, France
- 01/19/13 *A Decade of QGP Physics: What have we learned and what does the future hold?*
 Lecture at the SERC 2013 School at the Variable Energy Cyclotron Centre, Kolkata, India
- 01/18/13 *Phenomenology of Jet Energy-Loss*
 Lecture at the SERC 2013 School at the Variable Energy Cyclotron Centre, Kolkata, India
- 01/17/13 *What do we know about the viscosity of QCD matter*
 Lecture at the SERC 2013 School at the Variable Energy Cyclotron Centre, Kolkata, India

- 01/16/13 *Computational Modeling of Relativistic Heavy-Ion Collisions*
Lecture at the SERC 2013 School at the Variable Energy Cyclotron Centre, Kolkata, India
- 11/30/12 *The Quest for the Quark-Gluon-Plasma*
Physics Colloquium at Eastern Carolina University, Greenville, NC
- 11/15/12 *Heavy-Quark Dynamics in the QGP*
Invited talk at the 5th International Workshop on Heavy Quark Production in Heavy-Ion Collisions, 14-17 November 2012, Utrecht, Netherlands
- 10/25/12 *Hot and Dense QCD Matter – Unraveling the Mysteries of the Strongly Interacting Quark Gluon Plasma*
Relativistic Heavy-Ion Town Hall Meeting at the Division of Nuclear Physics fall meeting, October 24-28 2012, Newport Beach, CA
- 10/16/12 *Probing the Quark-Gluon-Plasma: Visualization in Theoretical High Energy Nuclear Physics*
Invited talk at the IEEE Visweek 2012 Conference, October 14-19 2012, Seattle, WA
- 09/25/12 *What do we know about the viscosity of QCD matter?*
Invited talk at the Nagoya Mini-Workshop 2012 on the Phenomenology and Experiments at RHIC and LHC, September 25-26 2012, Nagoya, Japan
- 09/24/12 *A Decade of Quark-Gluon-Plasma Physics: what have we learned and what does the future hold?*
Invited lecture at the Kobayashi-Maskawa Institute for the Origin of Particles and the Universe (KMI), Nagoya, Japan
- 09/11/12 *Recreating the Big Bang in the Laboratory: The Scientific, Computational and Data Challenges of High Energy Nuclear Physics*
Invited talk at the Opening Workshop, 2012-13 Program on Statistical and Computational Methodology for Massive Datasets, Statistical and Applied Mathematical Sciences Institute, Durham, NC
- 07/06/12 *QGP Meet 2012: Summary and Outlook*
Invited talk at the 5th Workshop on Ultra-Relativistic Heavy-Ion Collisions, QGP Meet 2012, July 3-6, 2012, VECC Kolkata, India
- 06/13/12 *What do we know about the viscosity of QCD matter?*
Invited talk at the Symposium on Contemporary Subatomic Physics, June 12-14, 2012, Montreal, Canada
- 11/08/11 *What do we know about the viscosity of QCD matter?*
Invited talk at the 7th International Workshop on the Critical Point and Onset of Deconfinement (CPOD 2011), November 7-11, 2011, CCNU Wuhan, China
- 09/29/11 *High Energy-Density QCD Matter*
Invited talk at the XLI International Symposium on Multiparticle Dynamics (ISMD 2011), September 26-30, 2011, Miyajima Island, Hiroshima, Japan
- 02/23/11 *Resonances in Hadronic Transport*
Invited talk at Workshop on Excited Hadronic States and the Deconfinement Transition, Jefferson Laboratory, February 23-25, 2011

- 12/08/10 *What do we know about the viscosity of QCD matter?*
Invited plenary talk at the 6th *International Conference on Physics and Astrophysics of the Quark Gluon Plasma (ICPAQGP-2010)*, December 6-10 2010, Goa, India
- 10/12/10 *The Viscosity of QCD Matter*
Nuclear Theory Seminar at Yonsei University, Seoul, South Korea
- 10/09/10 *The Quest for the Quark-Gluon-Plasma - from Discovery to Quantitative Exploration*
Keynote talk at the HIM conference, Daegu, South Korea
- 10/08/10 *The Viscosity of QCD Matter*
Seminar at the Asia Pacific Center for Theoretical Physics, Pohang University of Science and Technology, Pohang, South Korea
- 10/07/10 *Recreating the Big Bang in the Laboratory: the Discovery of the Quark-Gluon-Plasma*
Physics Colloquium at Andong National University, Andong, South Korea
- 06/28/10 *The Big Bang in the Laboratory – a Decade of Heavy-Ion Collisions at RHIC*
Physikalisches Kolloquium at Justus Liebig Universität, Giessen, Germany
- 06/07/10 *Hadron Gas Transport Coefficients from Microscopic Transport*
Institute for Nuclear Theory, University of Washington, Seattle, WA
- 05/13/10 *Large Scale Computation and Data Storage using Cloud Resources*
MADAI Collaboration Workshop, Sandia National Laboratory, Albuquerque, NM
- 12/14/09 *Hybrid Hydro+Micro Models: Status and Outlook*
Joint CATHIE/TECHQM workshop at Brookhaven National Laboratory, December 14-18, 2009, Upton, NY
- 11/12/09 *The Quest for the Quark-Gluon-Plasma*
Physics Colloquium at Texas A&M University Commerce, Commerce, TX
- 10/29/09 *What do we know about the viscosity of QCD matter?*
Nuclear Theory Seminar at McGill University, Montreal, QC, Canada
- 10/23/09 *From the Big Bang to Atmospheric Modeling: Developing Advanced Model to Data Analysis Techniques*
Annual Center for Theoretical and Mathematical Sciences Retreat, Duke University, NC
- 10/14/09 *Infinite Matter Calculations of Jet Energy-Loss with the Parton Cascade Model*
Third Joint Meeting of the Nuclear Physics Divisions of the American Physical Society and The Physical Society of Japan, October 13-17, 2009, Kona, HI
- 08/16/09 *Extracting the Transport Coefficients of QCD Matter with Relativistic Heavy-Ion Collisions*
Invited talk at the 10th International Conference on Nucleus-Nucleus Collisions (NN2009), August 16-21, 2009, Beijing, China
- 01/30/09 *What do we know about the viscosity of QCD matter?*
Nuclear Theory Seminar at Texas A&M University, College Station, TX
- 01/28/09 *Hot and Dense QCD*
Workshop on Forefront Questions in Nuclear Science and the Role of High Performance Computing, January 26-28 2009, Washington DC

- 10/30/08 *The Nature of the Quark-Gluon-Plasma*
Invited talk at the 75th Annual Meeting of the Southeastern Section of the APS, Raleigh, NC
- 10/26/08 *Systematic Comparison of Jet Energy-Loss Schemes in a 3D hydrodynamic medium*
APS Division of Nuclear Physics fall meeting, Oakland, CA
- 09/11/08 *Modeling of Relativistic Heavy-Ion Collisions with 3+1D Hydrodynamic and Hybrid Models*
Invited talk at the IV Workshop on Particle Correlations and Femtoscopy, September 11-14 2008, Krakow, Poland
- 06/10/08 *Comparison of Jet Energy-Loss Schemes in a 3D Hydrodynamic Medium*
Invited talk at the 3rd International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (Hard Probes 2008), June 8-14 2008, Illa da Toxa (Galicia-Spain)
- 02/05/08 *Comparison of Jet Energy-Loss Schemes in a 3D Hydrodynamic Medium*
Quark Matter 2008: 20th International Conference on Ultra Relativistic Nucleus Nucleus Collisions, February 4–10 2008, Jaipur, India
- 10/13/07 *Probing the QGP Structure at RHIC with Jet-Medium Correlations*
Invited talk at the APS Division of Nuclear Physics fall meeting, Newport News, VA
- 09/07/07 *The Quest for the Quark-Gluon-Plasma*
Physics Department Colloquium at the University of North Carolina - Wilmington, Wilmington, NC
- 08/10/07 *Modeling of Relativistic Heavy-Ion Collisions*
Nagoya Nuclear Physics Summer School, August 9-11 2007, Kiso Valley, Japan
- 07/02/07 *Hard Probe - Medium Interactions in 3D-Hydrodynamics*
Nuclear Theory Seminar, Tokyo University, Japan
- 06/26/07 *The Quest for the Quark-Gluon-Plasma*
Workshop on Chiral Symmetry in Hot and/or Dense Matter, June 25-27 2007, Nagoya, Japan
- 05/29/07 *Transport Analysis of Bulk QCD Matter at RHIC*
Workshop on Heavy-Ion Collisions at the LHC, May 29 - June 2, CERN, Geneva, Switzerland
- 01/17/07 *The Quest for the Quark-Gluon-Plasma*
Duke Physics Department Colloquium, Duke University, NC
- 11/19/06 *Calculation of Hard Probe - Medium Interactions in 3D-Hydrodynamics*
Quark Matter 2006: 19th International Conference on Ultra Relativistic Nucleus Nucleus Collisions, November 13-20, 2006, Shanghai, China
- 10/27/06 *Anomalous Viscosity of an Expanding Quark-Gluon Plasma*
APS Division of Nuclear Physics fall meeting, Nashville, TN
- 09/27/06 *Anomalous Viscosity of an expanding Quark-Gluon Plasma*
INT Workshop on Non-Equilibrium Quark-Gluon Plasma, September 25-29, 2006, Seattle, WA

- 06/15/06 *Electromagnetic Emission in the Parton Cascade Model*
Invited talk at the 10th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (Hard Probes 2006), June 9-16, 2006, Pacific Grove, CA
- 06/02/06 *Transport Theory for RHIC*
9th Conference on the Intersections of Particle and Nuclear Physics (CIPANP 2006), May 30 - June 3, 2006, Rio Mar, Puerto Rico
- 04/06/06 *Modeling of ultra-relativistic heavy-ion collisions at RHIC*
Invited talk at the International Symposium on Heavy Ion Physics 2006 (ISHIP 2006), April 3-6, 2006, Frankfurt, Germany
- 03/31/06 *Theoretical Summary and Challenges*
Invited talk at the International Conference on Strangeness in Quark Matter (SQM 2006), March 26-31, 2006, Los Angeles, CA
- 02/10/06 *Modeling RHIC Collisions*
Workshop to Model QCD on BG/L, Lawrence Livermore National Laboratory, Livermore, CA
- 12/02/05 *Parton Recombination: A comprehensive model for bulk hadronization at RHIC?*
Nuclear Theory Seminar at McGill University, Montreal, Canada
- 11/14/05 *Recreating the Big Bang in the Laboratory*
Colloquium at North Carolina A&T University, Greensboro, NC
- 10/07/05 *Parton Recombination: A comprehensive model for bulk hadronization at RHIC?*
Nuclear Theory Seminar at the Ohio State University, Columbus, OH
- 09/22/05 *Probing the QGP at RHIC: Lessons and Challenges*
Invited talk (invited session on the "Exploration of a New State of Dense Matter") at the 2nd joint meeting of the APS and JPS Divisions of Nuclear Physics, Maui, HI
- 09/21/05 *Fluctuations and Correlations in Parton Recombination*
talk at the mini-symposium on parton recombination, 2nd joint meeting of the APS and JPS Divisions of Nuclear Physics, Maui, HI
- 08/06/05 *Fluctuations and Correlations in the Parton Recombination Model*
Quark Matter 2005: 18th International Conference on Ultra Relativistic Nucleus Nucleus Collisions, August 4-9, 2005, Budapest, Hungary
- 07/29/05 *Probing the QGP at RHIC: Lessons and Challenges*
STAR Collaboration Meeting, Warsaw, Poland
- 06/21/05 *Light from Cascading Partons in Relativistic Heavy-Ion Collisions*
Photon Workshop at the 2005 RHIC & AGS Annual Users' Meeting, Brookhaven National Laboratory, Upton, NY
- 06/21/05 *Hadronization at RHIC: Interplay of Fragmentation and Recombination*
Correlations & Fluctuations Workshop at the 2005 RHIC & AGS Annual Users' Meeting, Brookhaven National Laboratory, Upton, NY
- 06/14/05 *Recreating the Big Bang in the Laboratory*
Public Lecture for the Chapel Hill Astronomical Society, East Chapel Hill HS, Chapel Hill, NC

- 06/07/05 *The Quest for the Quark-Gluon-Plasma: Discoveries at RHIC*
Nuclear Theory Colloquium at RIKEN main campus, Tokyo, Japan
- 06/06/05 *Hadronization at RHIC: Interplay of Recombination and Fragmentation*
Nuclear Theory Seminar at Tokyo University, Tokyo, Japan
- 06/02/05 *The Quest for the Quark-Gluon-Plasma: Discoveries at RHIC*
Nuclear Theory Seminar at Osaka University, Osaka, Japan
- 02/12/05 *Hadronization at RHIC: Interplay of Recombination and Fragmentation*
Invited plenary talk at the 5th International Conference of the Physics and Astrophysics of the Quark-Gluon-Plasma, Kolkata, India, February 8-12, 2005
- 12/09/04 *RHIC Physics with the Parton Cascade Model*
Nuclear Theory Seminar, University of Minnesota, Minneapolis, MN
- 11/18/04 *RHIC Physics with the Parton Cascade Model*
RIKEN Lunch Seminar, RIKEN-BNL Research Center, Brookhaven National Laboratory, Upton, NY
- 10/30/04 *Intensity Interferometry of Direct Photons at RHIC*
DNP fall meeting, Chicago, IL, October 27-30, 2004
- 09/16/04 *What do we learn from Strangeness at RHIC?*
Invited talk at the 8th International Conference on Strangeness in Quark Matter, Capetown, South Africa, September 15-20, 2004
- 08/16/04 *Dynamics of Hadronization in Heavy-Ion Collisions at RHIC*
Invited talk at the 32nd International Conference in High-Energy Physics (ICHEP04), Beijing, China, August 16-22, 2004
- 06/24/04 *Event Generators in Nuclear Reactions*
Invited lecture at the 2004 CTEQ summer school, Madison, WI, June 22-30, 2004
- 05/02/04 *The Properties of the Partonic Stage of Relativistic Heavy-Ion Collisions*
Invited talk at the April Meeting of the American Physical Society, Denver, CO, May 1-4, 2004
- 04/23/04 *RHIC Physics with the Parton Cascade Model*
Nuclear Theory Seminar at The Ohio State University, Columbus, OH
- 03/15/04 *RHIC Physics with the Parton Cascade Model*
20th Winter Workshop on Nuclear Dynamics, Trelawny Beach, Jamaica, March 15-20, 2004
- 01/15/04 *RHIC Physics with the Parton Cascade Model*
Quark Matter 2004: 17th International Conference on Ultra Relativistic Nucleus Nucleus Collisions, January 11-17, 2004, Oakland, CA
- 11/17/03 *Net-Baryon Density in the Parton Cascade Model*
RIKEN-BNL Workshop on Collective Flow and QGP Properties, Brookhaven National Laboratory, Upton, NY
- 11/08/03 *The Search for the Quark-Gluon-Plasma: Status and Perspectives*
Invited talk at the fall meeting of the Southeastern Section of the APS (SESAPS 03), Wrightsville Beach, NC

- 10/31/03 *The Light from Cascading Partons in Relativistic Heavy-Ion Collisions*
DNP fall meeting 2003, Tucson, AZ
- 10/10/03 *The Search for the Quark-Gluon-Plasma: Status and Perspectives*
Physics Colloquium at Arkansas State University, Jonesboro, AK
- 10/01/03 *Hadronization at RHIC: Recombination vs. Fragmentation*
NATO Advanced Studies Institute on *Structure and Dynamics of Elementary Matter*, Ke-
mer, Turkey
- 08/06/03 *The Search for the Quark-Gluon-Plasma: Status and Perspectives*
Colloquium at the Saha Institute of Nuclear Physics, Calcutta, India
- 07/22/03 *Hadronization at RHIC: Recombination vs. Fragmentation*
Nuclear Physics Seminar at the Institute of Physics, Bhubaneshwar, India
- 07/21/03 *The Search for the Quark-Gluon-Plasma: Status and Perspectives*
Colloquium at the Institute of Physics, Bhubaneshwar, India
- 07/18/03 *RHIC Physics: special topics*
Lecture at the Variable Energy Cyclotron Laboratory, Kolkata, India
- 07/16/03 *RHIC Physics with the Parton Cascade Model*
Lecture at the Variable Energy Cyclotron Laboratory, Kolkata, India
- 07/15/03 *Transport Theory for Relativistic Heavy-Ion Collisions*
Lecture at the Variable Energy Cyclotron Laboratory, Kolkata, India
- 07/14/03 *The Search for the Quark-Gluon-Plasma: Status and Perspectives*
Lecture at the Variable Energy Cyclotron Laboratory, Kolkata, India
- 07/10/03 *Transport Theory for Relativistic Heavy-Ion Collisions*
Nuclear Theory seminar at the Tata Institute for Fundamental Research (TIFR), Mumbai,
India
- 07/09/03 *The Search for the Quark-Gluon-Plasma: Status and Perspectives*
Colloquium at the Tata Institute for Fundamental Research (TIFR), Mumbai, India
- 06/27/03 *Hadronization at RHIC: Recombination vs. Fragmentation*
Invited talk at international conference on Topics in Heavy-Ion Collisions (HIC03), McGill
University, Montreal, Canada
- 05/28/03 *RHIC Physics with the Parton Cascade Model*
Institute for Nuclear Theory, University of Washington, Seattle, WA, USA.
- 05/21/03 *Hadronization at RHIC: Recombination vs. Fragmentation*
Conference on the Intersections of Particle and Nuclear Physics (CIPANP 2003), New York,
NY
- 05/19/03 *Hadronization at RHIC: Recombination vs. Fragmentation*
Theory Seminar, Columbia University, New York, NY
- 04/30/03 *The Search for the Quark-Gluon-Plasma: Status and Perspectives*
Theory Seminar, Stanford Linear Accelerator Center, Palo-Alto, CA

- 01/30/03 *The Search for the Quark-Gluon-Plasma: Status and Perspectives*
Physics Colloquium at Purdue University, West-Lafayette, IN
- 10/10/02 *RHIC Physics with the Parton Cascade Model*
Mini-Symposium on high- p_t physics at RHIC, APS/DNP fall meeting, October 2002, East-Lansing, MI
- 10/04/02 *The Search for the Quark-Gluon-Plasma: Status and Perspectives*
Montreal Joint High Energy Physics Seminar, McGill University, Montreal, Canada
- 09/27/02 *Modeling of Relativistic Heavy-Ion Collisions in Microscopic Transport Theory*
RBRC workshop on large-scale computations in nuclear physics using the QCDOC, Brookhaven National Laboratory, Upton, NY
- 09/24/02 *The Search for the Quark-Gluon-Plasma: Status and Perspectives*
Nuclear physics seminar at Hiroshima University, Hiroshima, Japan
- 09/18/02 *The Search for the Quark-Gluon-Plasma: Status and Perspectives*
Theoretical Physics Colloquium at the Yukawa Institute, University of Kyoto, Kyoto, Japan
- 09/15/02 *The Search for the Quark-Gluon-Plasma: Status and Perspectives*
Summary talk at the Heavy-Ion Symposium of the fall meeting of the Japanese Physical Society, Rikkyo University, Tokyo, Japan
- 09/12/02 *RHIC Physics with the Parton Cascade Model*
Nuclear Physics Seminar at RIKEN, main campus, Tokyo, Japan
- 08/23/02 *Physics of the Parton Cascade Model*
STAR graduate student and postdoc seminar, Brookhaven National Laboratory, Upton, NY
- 08/02/02 *Physics of the Parton Cascade Model*
Lecture at the DAAD summerschool on Quantum Statistics of Correlated Many-Particle Systems, July 21 - August 10, JINR, Dubna, Russia
- 08/01/02 *Transport Theory for SPS and RHIC*
Lecture at the DAAD summerschool on Quantum Statistics of Correlated Many-Particle Systems, July 21 - August 10, JINR, Dubna, Russia
- 07/22/02 *Physics of Relativistic Heavy Ion Collisions with the Parton Cascade Model*
Sixteenth International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (QM 2002), July 18 - 24, Nantes, France
- 06/15/02 *RHIC Physics with the Parton Cascade Model*
Workshop on two-particle interferometry and elliptic flow at RHIC, June 14 - 15, Brookhaven National Laboratory, Upton, NY
- 05/29/02 *RHIC Physics with the Parton Cascade Model*
Discussion at the Institute of Theoretical Physics, UCSB, Santa-Barbara, CA
- 03/29/02 *What we can learn from (strange) Baryons*
RBRC Workshop on Baryon Dynamics at RHIC, March 28 - 30, Brookhaven National Laboratory, Upton, NY
- 01/22/02 *Probing Hadronization with Strangeness*
18th Winter Workshop on Nuclear Dynamics, Nassau, Bahamas, January 20 - 27, 2002

- 01/14/02 *QGP-Theory: Status and Perspectives*
Nuclear Physics Seminar at the University of Virginia, Charlottesville, VA
- 11/24/01 *QGP-Theory: Status and Perspectives*
Invited overview talk at the 4th International Conference on the Physics and Astrophysics of the Quark-Gluon-Plasma, November 2001, Jaipur, India
- 11/09/01 *Transport Theory for RHIC*
Invited talk at the Workshop on Strong Non-Equilibrium Matter, November 2001, Giessen, Germany
- 10/18/01 *RHIC Physics with the Parton Cascade Model*
Mini-Symposium on high-density QCD and the physics of RHIC, APS/DNP fall meeting, October 2001, Maui, Hawaii
- 09/28/01 *Strangeness Production in Microscopic Transport Models*
Invited talk at the "Strange Quarks in Matter 2001" conference, September 2001, Frankfurt, Germany
- 09/11/01 *New Developments in Microscopic Transport Theory for SPS and RHIC*
Invited Nuclear Theory Seminar at the Ecole des Mines, Nantes, France
- 09/06/01 *Microscopic Reaction Dynamics at SPS and RHIC*
Invited talk at the "International Workshop on the Physics of the Quark-Gluon-Plasma", September 2001, Ecole Polytechnique, Palaiseau, France
- 07/20/01 *Dynamical Freeze-out vs. Chemical Equilibrium at SPS and RHIC*
Invited talk at the Workshop on Thermalization and Chemical Equilibration in Heavy-Ion Collisions at RHIC, July 2001, Brookhaven National Laboratory, Upton, NY
- 06/14/01 *Probing Hadronization with Strangeness*
Invited talk at the International Workshop on "Strangeness Production in Nuclear Collisions from 1 to 200 GeV", June 2001, ECT*, Trento, Italy
- 06/08/01 *Microscopic Reaction Dynamics in Heavy-Ion Collisions at SPS and RHIC*
Invited talk at the 6th Workshop on Non-Perturbative Quantum Chromodynamics, 5-9 June 2001, American University of Paris, Paris, France
- 05/29/01 *Microscopic Reaction Dynamics at SPS and RHIC*
Invited seminar at the Chinese Institute of Atomic Energy, Beijing, China
- 05/28/01 *Microscopic Reaction Dynamics at SPS and RHIC*
Invited seminar for the Nuclear Physics Group at Tsinghua University, Beijing, China
- 05/22/01 *Probing Hadronization with Strangeness*
Invited talk at the International Symposium on Non-Equilibrium Dynamics in Nuclear and other Finite Systems, May 2001, Beijing, China
- 01/17/01 *Microscopic Reaction Dynamics at SPS and RHIC*
Invited plenary talk at the Fifteenth International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (QM 2001), Long Island, New York, January 15-20, 2001
- 10/28/00 *Hadronic Probes of Highly Excited QCD Matter*
Invited talk at the Townmeeting on QCD for RHIC, Brookhaven National Laboratory, Upton, NY

- 10/07/00 *Clocking Hadronization with Balance Functions*
Mini-Symposium on first results from RHIC, APS/DNP fall meeting, Williamsburg, VA
- 7/24/00 *Dynamics of hot and dense QCD matter: from the Quark-Gluon-Plasma to hadronic freeze-out*
Strangeness 2000, 5th International Conference on Strangeness in Quark Matter, July 20 – 25, 2000, Berkeley, CA
- 7/18/00 *Dynamics of hot and dense QCD matter in hybrid transport approaches*
Invited seminar (Heavy Ion Tea – HIT) at the Nuclear Science Division, Lawrence Berkeley National Laboratory, Berkeley, CA
- 6/19/00 *Microscopic analysis of reaction dynamics, particle production and freeze-out in relativistic heavy-ion collisions*
Gordon Research Conference on Nuclear Chemistry, New London, NH
- 6/14/00 *Dynamics of hot and dense QCD matter: from the Quark-Gluon-Plasma to hadronic freeze-out*
OSCAR III workshop at the Ecole des Mines in Nantes, France
- 4/6/00 *Dynamics of hot and dense QCD matter: from the Quark-Gluon-Plasma to hadronic freeze-out*
Nuclear Theory Seminar at Argonne National Laboratory, Argonne, IL
- 3/28/00 *Melting the QCD Vacuum with Relativistic Heavy-Ion Collisions*
Physics Colloquium at Duke University, Durham, NC
- 3/13/00 *K-factors and reference frames: common problems for transport theory at RHIC*
RHIC 2000, 5th RHIC/INT Workshop in Park City, Utah, March 2000
- 3/2/00 *Dynamics of hot and dense QCD matter: from the Quark-Gluon-Plasma to hadronic freeze-out*
Physics Colloquium at Wayne State University, Detroit, MI
- 2/25/00 *Dynamics of hot and dense QCD matter: from the Quark-Gluon-Plasma to hadronic freeze-out*
Nuclear Theory Seminar at Brookhaven National Laboratory, Upton, NY
- 2/23/00 *Melting the QCD Vacuum with Relativistic Heavy-Ion Collisions*
Physics Colloquium at the University of Arizona, Tucson, AZ
- 2/22/00 *Dynamics of hot and dense QCD matter: from the Quark-Gluon-Plasma to hadronic freeze-out*
Nuclear Physics Seminar at the University of Arizona, Tucson, AZ
- 2/8/00 *Dynamics of hot and dense QCD matter: from the Quark-Gluon-Plasma to hadronic freeze-out*
Nuclear Physics Seminar at the University of Rochester, Rochester, NY
- 9/2/99 *Transport Theory for RHIC*
RHIC Transport Theory Workshop, Brookhaven National Laboratory, Upton, NY
- 8/27/99 *Transport-Theoretical Analysis of Hadrochemistry and Freeze-Out in Relativistic Heavy-Ion Collisions*
HERG and RHIP group seminar at the University of Tennessee, Knoxville, TN

- 8/12/99 *Transport-theoretical analysis of reaction dynamics, particle production and freeze-out at RHIC*
XXIX International Symposium on Multiparticle Dynamics (ISMD99), Brown University, Providence, RI, August 9–13, 1999
- 7/8/99 *VNI: status and problems*
OSCAR II: Predictions of RHIC – A RIKEN BNL Research Center Workshop, RIKEN-BNL Institute at Brookhaven National Laboratory, Upton, NY, July 1999
- 7/8/99 *UrQMD: status and limitations*
OSCAR II: Predictions of RHIC – A RIKEN BNL Research Center Workshop, RIKEN-BNL Institute at Brookhaven National Laboratory, Upton, NY, July 1999
- 7/7/99 *Transport Models: Blessing or Curse?*
OSCAR II: Predictions of RHIC – A RIKEN BNL Research Center Workshop, RIKEN-BNL Institute at Brookhaven National Laboratory, Upton, NY, July 1999
- 5/14/99 *A combined parton/hadron transport approach at RHIC*
Quark Matter '99, Fourteenth International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions, Torino, Italy, May 9–15, 1999
- 3/23/99 *Analysis of Au+Au collisions at RHIC with combined parton/hadron transport approaches*
Relativistic Heavy Ion Mini-Symposium at the APS Centennial Meeting, Atlanta, GA, March 20–26, 1999
- 1/11/99 *Analysis of freeze-out and radial flow at RHIC in a combined partonic/hadronic model*
Joint Theory group and RNC seminar at the Lawrence Berkeley National Laboratory, Berkeley, CA
- 12/10/98 *Investigation of Au+Au collisions at RHIC in a combined partonic/hadronic model*
Theory group lunch seminar, Duke University, Durham, NC
- 9/27/98 *Lessons learned from hadronic transport models at the CERN/SPS*
Working Meeting on Heavy Ion Physics at the SPS (HIPS 98), Chamonix, France, September 26–27, 1998
- 9/19/98 *Energy-Densities and partonic degrees of freedom in central Pb+Pb Collisions at the CERN/SPS*
International School on Nuclear Physics; 20th Course: “Heavy Ion Collisions from Nuclear to Quark Matter” in Erice, Sicily, Italy, September 17–25, 1998
- 7/11/98 *Energy-Densities in central Pb+Pb Collisions at the CERN/SPS*
Workshop on “High Density Matter in AGS, SPS and RHIC Collisions”, RIKEN-BNL Institute at Brookhaven National Laboratory, Upton, NY, July 1998
- 7/7/98 *Microscopic Analysis of Reaction Dynamics, Hadrochemistry and Freeze-Out in Relativistic Heavy Ion Collisions*
Nuclear Physics Seminar at Yale University, New Haven, CT
- 6/01/98 *Particle Production in the UrQMD Model*
INT Workshop 98-1, Probes of Dense Matter in Ultrarelativistic Heavy Ion Collisions, June 1 - June 14, 1998, Institute of Nuclear Theory, Seattle, WA

- 4/18/98 *Hadrochemical vs. Microscopic Analysis of Particle Production and Freeze-out in Ultrarelativistic Heavy Ion Collisions*
Joint APS/AAPT Meeting, April 18 - April 21, 1998, Columbus, OH
- 2/3/98 *Hadrochemical vs. Microscopic Analysis of Particle Production and Freeze-out in Ultrarelativistic Heavy Ion Collisions*
14th Winter Workshop on Nuclear Dynamics, January 31 - February 7, 1998, Snowbird, Utah
- 1/28/98 *Particle production and freeze-out in relativistic heavy ion collisions in the framework of a hadronic transport model*
Theory Group Lunch Seminars, Duke University, Durham, NC
- 7/23/97 *Particle Production and Freeze-Out in UrQMD*
Palaver at the Gesellschaft für Schwerionenforschung (GSI), Darmstadt, Germany
- 06/24/97 *UrQMD: Infinite Matter Tests and Project Documentation*
Workshop on "Open Standards for CASCADE Codes at RHIC", RIKEN-BNL Institute at Brookhaven National Laboratory, Upton, NY, June 1997
- 04/10/97 *Microscopic calculation of stopping and flow excitation functions from 160 A MeV to 160 A GeV*
Workshop on Hadronization and Thermalization at the European Center for Theoretical Studies in Nuclear Physics and Related Areas, Trento, Italy, April 1997
- 02/25/97 *Resonanz- und Teilchenproduktion in hochdichter Kernmaterie*
talk (Gruppenbericht) at the spring 97 meeting of the Deutsche Physikalische Gesellschaft in Göttingen, Germany
- 01/22/97 *Resonance lifetimes and time delays in the URQMD approach*
Meson Mini-Workshop held at GSI on 01/22/97, organized by K.D. Hildenbrand, H. Oeschler and R. Simon (GSI and TH Darmstadt).
- 01/16/97 *Resonance lifetimes and time delays in the URQMD approach*
International Workshop XXV on Gross Properties of Nuclei and Nuclear Excitations: QCD Phase Transitions (Hirschegg 97), January 13th - 18th, Hirschegg, Kleinwalsertal, Austria
- 08/22/96 *Stopping and flow excitation functions from 160 MeV/nucleon to 160 GeV/nucleon*
theory seminar at the National Superconducting Cyclotron Laboratory, Michigan State Univ., East Lansing, Michigan
- 08/13/96 *Ultradense nuclear matter, stopping and flow excitation functions with URQMD*
nuclear theory seminar at Duke University, Durham, NC
- 08/06/96 *Ultradense nuclear matter, stopping and flow excitation functions with URQMD*
seminar at the Nevis Laboratories, Columbia University, New, York
- 07/30/96 *Ultradense nuclear matter, stopping and flow excitation functions with URQMD*
Invited seminar (Heavy Ion Tea – HIT) at the Nuclear Science Division, Lawrence Berkeley Laboratory, Berkeley, California
- 05/20/96 *Stopping and flow excitation functions from 160 MeV/nucleon to 160 GeV/nucleon*
Quark Matter '96: Twelfth International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions, May 20th - 24th in Heidelberg, Germany

- 03/12/96 *UQMD - a new molecular dynamics model from GANIL to CERN energies*
International Conference on Nuclear Physics at the Turn of the Millenium - Structure of Vacuum and Elementary Matter, March 1996 in Wilderness, South Africa
- 01/30/96 *Resonance Excitation and Meson Production in Nuclear Matter at SIS Energies*
Invited seminar at the Kernfysisch Versneller Instituut (KVI) of the Rijksuniversiteit Groningen, The Netherlands
- 07/06/95 *Pionen als Sonden zur Untersuchung der Reaktionsdynamik in relativistischen Schwerionenstößen*
seminar at the GSI-Theorie-Treffen (Rauschholzhausen VIII), Stolpen, Juli 1995
- 03/07/95 *Pionen als Sonden zur Untersuchung der Reaktionsdynamik in relativistischen Schwerionenstößen*
seminar at the XXVI Arbeitstreffen Kernphysik in Schleching, März 1995
- 01/27/95 *What can we learn from pions about the reaction dynamics of relativistic heavy ion collisions?*
XXXIII International Winter Conference on Nuclear Physics in Bormio, Italy
- 06/07/94 *Pion-nucleon interactions in relativistic heavy ion collisions: new sensitivities to the nuclear equation of state*
7th International Conference on Nuclear Reaction Mechanisms, Villa Monastero, Varenna (Italy), June 1994
- 03/21/94 *Azimuthale Korrelationen von Pionen bei Schwerionenkollisionen um 1 AGeV*
plenary talk (Plenar-Gruppenbericht) at the spring 94 meeting of the Deutsche Physikalische Gesellschaft in Munich, Germany
- 12/01/93 *Kollektive Effekte von Pionen bei SIS Energien*
Graduiertentag des Graduiertenkollegs *theoretische und experimentelle Schwerionenphysik* at GSI, Darmstadt, Germany
- 11/02/93 *Collective effects of mesons in heavy ion collisions at 1 GeV/nucleon*
theory seminar at the physics department, Duke University, Durham, NC
- 10/29/93 *Collective Effects of Mesons at SIS Energies*
9th Heavy Ion Study at the LBL in Berkeley, CA
- 10/04/93 *Collective Effects of Mesons at SIS Energies*
NATO Advanced Studies Institute on *Hot and Dense Nuclear Matter* in Bodrum, Turkey
- 08/23/93 *Azimuthal Anisotropies of Pions in Heavy-Ion Collisions: A new chance of probing the hot and dense reaction phase?*
NATO Advanced Studies Institute on *Frontier Topics in Nuclear Physics* in Predeal, Rumania
- 05/06/93 *Azimuthal Anisotropies of Pions at SIS Energies*
GSI Meson-Workshop 1993 at the Gesellschaft für Schwerionenforschung (GSI), Darmstadt, Germany
- 03/23/93 *Azimuthale Anisotropien von Pionen bei SIS-Energien*
spring 93 meeting of the Deutsche Physikalische Gesellschaft in Mainz, Germany.

- 01/28/93 *Collective Effects of Pions at SIS Energies*
XXXI International Winter Conference on Nuclear Physics in Bormio, Italy
- 11/04/92 *Collective effects of pions at SIS energies*
seminar of the KaoS collaboration at GSI, Darmstadt, Germany
- 11/03/92 *Kollektive Effekte von Pionen bei SIS Energien*
Kolloquium des Graduiertenkollegs *theoretische und experimentelle Schwerionenphysik* at GSI, Darmstadt, Germany
- 10/20/92 *Collective effects of pions at SIS energies*
fall 92 meeting of the FOPI collaboration at GSI, Darmstadt, Germany
- 01/17/92 *Relativistische Quanten-Molekular-Dynamik auf Vektorrechnern*
comissioning ceremony for the supercomputer facility at the Johann Wolfgang Goethe University, Frankfurt, Germany