

Björn Peter Schenke

CONTACT
INFORMATION

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RESEARCH
INTERESTS

High energy nuclear theory

- Heavy-ion collisions, quark-gluon plasma
- Phase structure of quantum chromo dynamics
- Finite temperature/density quantum field theory
- Classical Yang-Mills and Wong-Yang-Mills theory
- Nuclei at high energy: Small-x physics and saturation
- Deep inelastic scattering, diffraction
- Monte-Carlo simulations of heavy-ion collisions / Jet and high momentum physics
- Relativistic hydrodynamic simulations of heavy-ion collisions
- Non-equilibrium field theory
- Transport theory, non-linear dynamics, plasma instabilities

EDUCATION

Goethe University, Frankfurt am Main, Germany

Dr. phil. nat. (summa cum laude) (Ph.D.) **July 2008**

- Graduation date: July 3rd 2008
- Advisor: Professor Dr. Carsten Greiner
- Thesis: “Collective Phenomena in the Non-Equilibrium Quark-Gluon Plasma”

Goethe University, Frankfurt am Main, Germany

Diplom (MSc) with honors **November 2004**

- Advisor: Professor Dr. Carsten Greiner
- Thesis: “Dilepton Production from Hot Hadronic Matter in Non-Equilibrium”

University of Washington, Seattle, USA

Graduate studies **September 2002 - July 2003**

- with the ISAP program (DAAD) of the University of Giessen

Justus Liebig University, Giessen, Germany

Vordiplom (BSc) **September 2001**

AWARDS

2017 - The Zimányi Medal in Nuclear Theory

recognizing “a young theoretical physicist under 40, who made extraordinary contributions to the field of high energy nuclear physics” awarded at Quark Matter 2017, Chicago, IL

2014 - Early Career Research Program Award 2014

awarded by the U.S. Department of Energy (DOE) Office of Science

2013 - IUPAP Young Scientist Prize for Nuclear Physics 2013

presented at INPC 2013, Florence, Italy

2012 - Nuclear Physics A: Young Scientist Award 2012

presented at Quark Matter 2012, Washington DC, USA

2012 - Gertrude and Maurice Goldhaber Distinguished Fellowship
 April 2012 - September 2013, with funding from Battelle Memorial Institute und Stony Brook University, partners in Brookhaven Science Associates, Brookhaven National Laboratory, Upton, NY, USA

2009 - Gernot und Carin Frank Preis 2009
 Award for the best PhD work in the Department of Physics, Goethe University, Frankfurt am Main awarded by the ‘‘Frankfurter F3rderverein f3rdur physikalische Grundlagenforschung’’ and the Department of Physics, Goethe University, Frankfurt am Main.

2008 - Richard H. Tomlinson Postdoctoral Fellowship 2008-2010
 McGill University, Montreal, Canada

2002 - DAAD Fellowship
 ISAP visiting graduate program at the University of Washington, Seattle, USA (September 2002 - May 2003)

PROFESSIONAL
 EXPERIENCE

Brookhaven National Laboratory, Upton, NY, USA

<i>Physicist</i>	October 2017 – present (tenured since December 2017)
<i>Associate Physicist</i>	July 2014 – present
<i>Assistant Physicist</i>	October 2013 – June 2014
<i>Goldhaber Distinguished Fellow</i>	April 2012 – September 2013
<i>Research Associate</i>	December 2010 – March 2012

McGill University, Montreal, Canada

Richard H. Tomlinson Postdoctoral Fellow **September 2008 – November 2010**

Goethe University, Frankfurt am Main, Germany

Research Associate and Teaching Assistant **November 2004 – August 2008**

Goethe University, Frankfurt am Main, Germany

Teaching Assistant for undergraduate courses **October 2003 – November 2004**

Justus Liebig University, Giessen, Germany

Teaching Assistant for undergraduate courses **October 2001 – July 2002**

Physics lab for biology students

TEACHING
 EXPERIENCE

Students I have co-supervised

- *Farid Salazar Wong*, graduate student, Stony Brook University
- *Prithwish Tribedy*, graduate student at VECC, Kolkata, India, now Postdoc at Brookhaven National Lab
- *Gojko Vujanovic*, graduate student, McGill University, now Postdoc at The Ohio State University
- *Maxime Dion*, master’s student, McGill University, left the field
- *Fritz Kretzschmar*, master’s student, Frankfurt University, left the field
- *Frank Michler*, master’s and graduate student, Frankfurt University, left field

Postdocs supervised:

- *Niklas Müller* (2017-present)
- *Chun Shen* (2016-2018), now assistant professor at Wayne State University
- *Heikki Mäntysaari* (2015-2017), now research associate at the University of Jyväskylä, Finland
- *Gabriel Denicol* (2015-2016), now professor at Universidade Federal Fluminense, Brazil
- *Prithwish Tribedy* (2015-2017), now postdoc at BNL (STAR Collaboration)

Invited Lectures:

- June 18-19 2018, Heavy Ion Theory, Invited lectures at the National Nuclear Physics Summer School (NNPSS) 2018, Yale University, New Haven, CT, USA
- January 4 2018, Initial State of Heavy Ion Collisions, Invited lecture at the JETSCAPE Winter School 2018, Lawrence Berkeley National Laboratory, Berkeley, CA, USA
- December 14 2016, Hydrodynamics for Heavy Ion Collisions, Invited lectures at “Collective Flows and Hydrodynamics in High Energy Nuclear Collisions”, University of Science and Technology of China, Hefei, Anhui, China
- January 11-22 2016, Relativistic Hydrodynamics, Invited lecture at the 27th Chris Engelbrecht Summer School, Tshipise, Vhembe District, Limpopo, South Africa
- September 27 2015, Theory of heavy ion collisions, Invited lecture at the Quark Matter 2015 Student Day, Kobe, Japan
- June 10-14 2013, Two invited lectures at the 2013 JET Summer School, The Ohio State University, Columbus, OH, USA
- August 20-24 2012, Invited lectures at the 22. Jyväskylä Summer School, Jyväskylä, Finland
- August 12 2012, Invited lecture at the Quark-Matter 2012 International Conference - Student Day, Washington D.C., USA
- October 16-21 2011, “Hydrodynamics and Flow”, Lecture at the 2011 H-QM Fall Lecture Week, Helmholtz Research School for Quark Matter Studies, Zell, Germany
- June 16 2011, “Jet Monte-Carlo simulations”, Lecture at the JET summer school 2011, Duke University, USA

PROFESSIONAL
SERVICES /
COLLABORATIONS

Referee for

- the American Physical Society’s journal *Physical Review Letters*
- the American Physical Society’s journal *Physical Review C*
- the American Physical Society’s journal *Physical Review D*
- Elsevier’s journal *Physics Letters B*
- Elsevier’s journal *Nuclear Physics A*
- Elsevier’s journal *Computer Physics Communications*
- Elsevier’s journal *Annals of Physics*
- SISSA’s journal *JHEP*
- World Scientific’s journal *Modern Physics Letters A*
- IOPScience’s *Journal of Physics*

- Hindawi’s journal *Advances in High Energy Physics*
- MDPI’s journal *Universe*

Member of the International Advisory Committee of the Zimanyi Winter School on Heavy Ion Physics

Organizer of the upcoming INT Workshop on “Origins of Correlations in High Energy Collisions (INT-19-1b)” (April 29 - May 24, 2019)

Member of the Initial Stages 2019 local organizing committee

Member of the Hot Quarks 2018 organizing committee

Convener of the BEST Topical Collaboration Initial State Working Group, 2016-

Associate Member of the JETSCAPE collaboration, 2016-

External Member of the ISOQUANT collaborative research center at Heidelberg University, 2016-

Member of the RHIC and AGS Users’ Executive Committee (UEC), June 2016-

Member of the Hot QCD subcommittee of the Exascale Requirements Review for Nuclear Physics, June 2016

Co-Organizer of the “2nd International Workshop on Initial State Fluctuations and Final State Correlations in Heavy-Ion Collisions”, August 8-11, 2013, Chengdu, China

Member of the White Paper Committee “QCD Matter. A Community White Paper on the Future of Relativistic Heavy-Ion Physics in the US”, 2012

Convener of the “Soft processes and hydrodynamics” session at the International Symposium on Multiparticle Dynamics, ISMD 2012
Jan Kochanowski University, Kielce, Poland, 17-21 Sept. 2012

Convener of the Monte-Carlo working group of the JET collaboration, 2010-2012 (DOE funded topical collaboration on Jet and Electromagnetic Tomography)

Local organizing committee of “Strong and Electroweak Matter 2010”
McGill University, Montreal, Canada

LANGUAGES German (native)
 English (fluent)
 French (basic knowledge)
 Japanese (basic knowledge)

PUBLICATIONS *Summary*

inspirehep.net information as of 08/30/2018:

Citeable papers: **117** (excluding proceedings/unpublished: 74)

Total citations: **5311** (excluding proceedings/unpublished: 5034)

Citations per paper (average): **45.4** (excluding proceedings/unpublished: 68)

h_{HEP} index: **35** (excluding proceedings/unpublished: 34)

google scholar citations: 6028 (as of 08/30/2018)

Recent Publications - submitted to journals

1. B. Schenke, S. Schlichting, P. Tribedy, R. Venugopalan
Hadronic observables in $p+p$ and $d+Au$ collisions at RHIC using CGC+PYTHIA
e-Print: arXiv:1807.05632
2. B. Schenke, C. Shen
Dynamical initialization and hydrodynamic modeling of relativistic heavy-ion collisions
e-Print: arXiv:1807.05141

3. B. Schenke, C. Shen, P. Tribedy
Features of the IP-Glasma
e-Print: arXiv:1807.05205
4. H. Mäntysaari, B. Schenke
Energy and system size dependence of subnucleonic fluctuations
e-Print: arXiv:1807.04088
5. A. Dubla, S. Masciocchi, J. M. Pawlowski, B. Schenke, C. Shen, J. Stachel
Towards QCD-assisted hydrodynamics for heavy-ion collision phenomenology
e-Print: arXiv:1805.02985
6. G. S. Denicol, C. Gale, S. Jeon, A. Monnai, B. Schenke, C. Shen
Net baryon diffusion in fluid dynamic simulations of relativistic heavy-ion collisions
e-Print: arXiv:1804.10557
7. E.C. Aschenauer, S. Fazio, J.H. Lee, H. Mäntysaari, B.S. Page, B. Schenke, T. Ullrich, R. Venugopalan, P. Zurita
The Electron-Ion Collider: Assessing the Energy Dependence of Key Measurements
e-Print: arXiv:1708.01527

Refereed Publications

1. H. Mäntysaari, B. Schenke
Confronting impact parameter dependent JIMWLK evolution with HERA data
Phys. Rev. **D98** (2018) no.3, 034013 [arXiv:1806.06783]
2. V. Khachatryan, B. Schenke, M. Chiu, A. Drees, T. K. Hemmick, N. Novitzky
Photons from thermalizing matter in heavy ion collisions
Nucl. Phys. **A978** (2018) 123-159 [arXiv:1804.09257]
3. C. Shen, B. Schenke
Initial state and hydrodynamic modeling of heavy-ion collisions at RHIC BES energies PoS CPOD2017 (2018) 006 [arXiv:1711.10544]
4. C. Shen, B. Schenke
Dynamical initial state model for relativistic heavy-ion collisions Phys. Rev. **C97** (2018) no.2, 024907 [arXiv:1710.00881]
5. M. Greif, C. Greiner, B. Schenke, S. Schlichting, Z. Xu
Importance of initial and final state effects for azimuthal correlations in p+Pb collisions
Phys. Rev. **D96** (2017) no.9, 091504 [arXiv:1708.02076]
6. J. L. Albacete et al.
Predictions for Cold Nuclear Matter Effects in p+Pb Collisions at $\sqrt{s}=8.16$ TeV
Nucl. Phys. **A972** (2018) 18-85 [arXiv:1707.09973]
7. H. Mäntysaari, B. Schenke, C. Shen, P. Tribedy
Proton structure fluctuations: from HERA to the LHC
PoS DIS2017 (2018) 060 [arXiv:1706.05937]
8. H. Mäntysaari, B. Schenke, C. Shen, P. Tribedy
Proton structure fluctuations: constraints from HERA and applications to p+A collisions
Nucl. Phys. **A967** (2017) 317-320 [arXiv:1705.03735]

9. H. Mäntysaari, B. Schenke, C. Shen, P. Tribedy
Imprints of fluctuating proton shapes on flow in proton-lead collisions at the LHC
Phys. Lett. **B772** (2017) 681-686 [arXiv:1705.03177]
10. JETSCAPE Collaboration (S. Cao et al.)
Multistage Monte-Carlo simulation of jet modification in a static medium
Phys. Rev. **C96** (2017) no.2, 024909 [arXiv:1705.00050]
11. S. Ryu, J.-F. Paquet, C. Shen, G. Denicol, B. Schenke, S. Jeon, C. Gale
Effects of bulk viscosity and hadronic rescattering in heavy ion collisions at RHIC and LHC
Phys. Rev. **C97** (2018) no.3, 034910 [arXiv:1704.04216]
12. C. Shen, G. Denicol, C. Gale, S. Jeon, A. Monnai, B. Schenke
A hybrid approach to relativistic heavy-ion collisions at the RHIC BES energies
Nucl. Phys. **A967** (2017) 796-799 [arXiv:1704.04109]
13. B. Schenke
Origins of collectivity in small systems
Nucl. Phys. **A967** (2017) 105-112 [arXiv:1704.03914]
14. B. Schenke, S. Schlichting
3-D Glasma initial state from small-x evolution
Nucl. Phys. **A967** (2017) 285-288 [arXiv:1704.03018]
15. H. Mäntysaari, B. Schenke
Probing subnucleon scale fluctuations in ultraperipheral heavy ion collisions
Phys. Lett. **B772** (2017) 832-838 [arXiv:1703.09256]
16. S. Mrowczynski, B. Schenke, M. Strickland
Color Instabilities in the Quark-Gluon Plasma
Phys. Rept. **682** (2017) 1-97 [arXiv:1603.08946]
17. B. Schenke
Collectivity in small systems: Initial correlations or final state flow?
J. Phys. Conf. Ser. 779 (2017) no.1, 012011
18. M.E. Carrington, St. Mrowczynski, B. Schenke
Momentum broadening in unstable quark-gluon plasma
Phys. Rev. **C95** (2017) 024906 [arXiv:1607.02359]
19. J.-F. Paquet, C. Shen, G. Denicol, M. Luzum, B. Schenke S. Jeon, C. Gale
Thermal and prompt photons at RHIC and the LHC
Nucl. Phys. **A956** (2016) 409-412
20. K. Hattori, L. McLerran, B. Schenke
Geometrical scaling of jet fragmentation photons
Nucl. Phys. **A956** (2016) 413-416
21. B. Schenke, S. Schlichting, P. Tribedy, R. Venugopalan
Mass ordering of spectra from fragmentation of saturated gluon states in high multiplicity proton-proton collisions
Phys. Rev. Lett. **117**, 162301 (2016) [arXiv:1607.02496]
22. B. Schenke, S. Schlichting
3-D Glasma initial state for relativistic heavy ion collisions
Phys. Rev. **C94**, 044907 (2016) [arXiv:1605.07158]
23. H. Mäntysaari, B. Schenke
Revealing proton shape fluctuations with incoherent diffraction at high energy
Phys. Rev. **D94**, 034042 (2016) [arXiv:1607.01711]

24. H. Mäntysaari, B. Schenke
Evidence of strong proton shape fluctuations from incoherent diffraction
Phys. Rev. Lett. **117** (2016) 052301 [arXiv:1603.04349]
Physics Viewpoint, Editor's suggestion
25. G. Denicol, A. Monnai, S. Ryu, B. Schenke
New insights from 3D simulations of heavy ion collisions
Nucl. Phys. **A956** (2016) 288-291 [arXiv:1512.08231]
26. F. Gelis, B. Schenke
Initial State Quantum Fluctuations in the Little Bang
Annual Review of Nuclear and Particle Science, Vol. 66: 73-94 [arXiv:1604.00335]
27. P. Tribedy, B. Schenke, R. Venugopalan
Fluctuating Glasma initial condition for heavy ion collisions
DAE Symp. Nucl. Phys. **57** (2012) 770-771
28. G. Denicol, A. Monnai, B. Schenke
Moving forward to constrain the shear viscosity of QCD matter
Phys. Rev. Lett. **116** (2016) 212301 [arXiv:1512.01538]
29. G. Vujanovic, C. Shen, G.S. Denicol, B. Schenke, S. Jeon, C. Gale
Probing the dissipative properties of a strongly interacting medium with dileptons
Nuclear and Particle Physics Proceedings **276-278** (2016) 113-114 [arXiv:1511.04625]
30. N.-B. Chang et al.
Physics Perspectives of Heavy-Ion Collisions at Very High Energy
Sci. China Phys. Mech. Astron. **59** (2016) no.2, 621001 [arXiv:1510.05754]
31. B. Schenke
Theory @ Hard Probes 2015
Nuclear and Particle Physics Proceedings **276-278** (2016) 103-110 [arXiv:1510.04133]
32. K. Dusling, W. Li, B. Schenke
Novel collective phenomena in high-energy proton-proton and proton-nucleus collisions
Int. J. Mod. Phys. **E25** (2016) no.01, 1630002 [arXiv:1509.07939]
33. J.-F. Paquet, C. Shen, G.S. Denicol, M. Luzum, B. Schenke, S. Jeon, C. Gale
Production of photons in relativistic heavy-ion collisions
Phys. Rev. **C93** (2016) no.4, 044906 [arXiv:1509.06738]
34. A. Monnai, B. Schenke
Pseudorapidity correlations in heavy ion collisions from viscous fluid dynamics
Phys. Lett. **B752** (2016) 317-321 [arXiv:1509.04103]
35. T. Lappi, B. Schenke, S. Schlichting, R. Venugopalan
Tracing the origin of azimuthal gluon correlations in the color glass condensate
JHEP 1601 (2016) 061 [arXiv:1509.03499]
36. W. van der Schee, B. Schenke
Rapidity dependence in holographic heavy ion collisions
Phys. Rev. **C92** (2015) no.6, 064907 [arXiv:1507.08195]
37. B. Schenke
Initial state fluctuations and final state collectivity in high energy nuclear collisions: Status and Outlook
J. Phys. Conf. Ser. **612** (2015) no.1, 012059
38. L. McLerran, B. Schenke
A Tale of Tails: Photon Rates and Flow in Ultra-Relativistic Heavy Ion Collisions
Nucl. Phys. **A946** (2016) 158-170 [arXiv:1504.07223]

39. S. Ryu, J.-F. Paquet, C. Shen, G.S. Denicol, B. Schenke, S. Jeon, C. Gale
Importance of the Bulk Viscosity of QCD in Ultrarelativistic Heavy-Ion Collisions
Phys. Rev. Lett. **115** (2015) no.13, 132301 [arXiv:1502.01675]
40. B. Schenke, S. Schlichting, R. Venugopalan
Azimuthal anisotropies in p+Pb collisions from classical Yang-Mills dynamics
Phys. Lett. **B747** (2015) 76-82 [arXiv:1502.01331]
41. J. Berges, B. Schenke, S. Schlichting, R. Venugopalan
Turbulent thermalization process in high-energy heavy-ion collisions
Nucl. Phys. **A931** (2014) 348-353 [arXiv:1409.1638]
42. B. Schenke, P. Tribedy, R. Venugopalan
Initial state geometry and fluctuations in deformed and asymmetric nuclear collisions in the IP-Glasma framework
Nucl. Phys. **A931** (2014) 288-292
43. G. Vujanovic, J.F. Paquet, G.S. Denicol, M. Luzum, B. Schenke, S. Jeon, C. Gale
Probing the non-equilibrium dynamics of hot and dense QCD with dileptons
Nucl. Phys. **A931** (2014) 701-705 [arXiv:1408.1098]
44. J.-B. Rose, J.-F. Paquet, G.S. Denicol, M. Luzum, B. Schenke, S. Jeon, C. Gale
Extracting the bulk viscosity of the quark-gluon plasma
Nucl. Phys. **A931** (2014) 926-930 [arXiv:1408.0024]
45. C. Young, J.I. Kapusta, C. Gale, S. Jeon, B. Schenke
Numerical Simulation of Thermal Noise in Heavy Ion Collisions
J. Phys. Conf. Ser. **535** (2014) 012034
46. C. Gale, S. Jeon, B. Schenke, P. Tribedy, R. Venugopalan
Particle production and final state effects in nuclear collisions
J. Phys. Conf. Ser. **535** (2014) 012026
47. B. Schenke, P. Tribedy, R. Venugopalan
Glasma fluctuations in heavy-ion collisions
AIP Conf. Proc. 1560 (2013) 650-654
48. S. Schlichting, B. Schenke
The shape of the proton at high energies Phys. Lett. **B739** (2014) 313-319 [arXiv:1407.8458]
49. B. Schenke, R. Venugopalan
Collective effects in light-heavy ion collisions
Nucl. Phys. **A931** (2014) 1039-1044 [arXiv:1407.7557]
50. C. Young, J.I. Kapusta, C. Gale, S. Jeon, B. Schenke
Thermally Fluctuating Second-Order Viscous Hydrodynamics and Heavy-Ion Collisions
Phys. Rev. **C91** (2015) no.4, 044901 [arXiv:1407.1077]
51. B. Schenke, R. Venugopalan
Eccentric protons? Sensitivity of flow to system size and shape in p+p, p+Pb and Pb+Pb collisions
Phys. Rev. Lett. **113** (2014) 102301 [arXiv:1405.3605]
52. G. Vujanovic, J.-F. Paquet, G.S. Denicol, M. Luzum, B. Schenke, S. Jeon, C. Gale
Probing the early-time dynamics of relativistic heavy-ion collisions with electromagnetic radiation
Nucl. Phys. **A932** (2014) 230-234 [arXiv:1404.3714]

53. B. Schenke, P. Tribedy, R. Venugopalan
Gluon field fluctuations in nuclear collisions: Multiplicity and eccentricity distributions
Nucl. Phys. **A926** (2014) 102-108 [arXiv:1312.5588]
54. K.M. Burke, A. Buzzatti, N. Chang, C. Gale, M. Gyulassy, U. Heinz, S. Jeon, A. Majumder, B. Müller, G.-Y. Qin, B. Schenke, C. Shen, X.-N. Wang, J. Xu, C. Young, H. Zhang
Extracting jet transport coefficient from jet quenching at RHIC and LHC
Phys. Rev. **C90** no.1 (2014) 014909 [arXiv:1312.5003]
55. L. McLerran, B. Schenke
The Glasma, Photons and the Implications of Anisotropy
Nucl. Phys. **A929** (2014) 71-82 [arXiv:1403.7462]
56. B. Schenke, P. Tribedy, R. Venugopalan
Initial state geometry and fluctuations in Au+Au, Cu+Au and U+U collisions at RHIC
Phys. Rev. **C89** (2014) no.6, 064908 [arXiv:1403.2232]
57. G. Vujanovic, C. Young, B. Schenke, R. Rapp, S. Jeon, C. Gale
Dilepton emission in high-energy heavy-ion collisions with viscous hydrodynamics
Phys. Rev. **C89** (2014) 034904 [arXiv:1312.0676]
58. B. Schenke, P. Tribedy, R. Venugopalan
Multiplicity distributions in p+p, p+A and A+A collisions from Yang-Mills dynamics
Phys. Rev. **C89** (2014) 024901 [arXiv:1311.3636]
59. L. McLerran, M. Praszalowicz, B. Schenke
Transverse Momentum of Protons, Pions and Kaons in High Multiplicity pp and pA Collisions: Evidence for the Color Glass Condensate?
Nucl. Phys. **A916** (2013) 210-218 [arXiv:1306.2350]
60. A. Bzdak, B. Schenke, P. Tribedy, R. Venugopalan
Initial state geometry and the role of hydrodynamics in proton-proton, proton-nucleus and deuteron-nucleus collisions
Phys. Rev. **C87** (2013) 064906 [arXiv:1304.3403]
Editor's suggestion
61. C. Gale, S. Jeon, B. Schenke
Hydrodynamic Modeling of Heavy-Ion Collisions
Int. J. Mod. Phys. **A28** (2013) 1340011 [arXiv:1301.5893]
62. G. Vujanovic, C. Young, B. Schenke, S. Jeon, R. Rapp, C. Gale
Dilepton production in high energy heavy ion collisions with 3+1D relativistic viscous hydrodynamics
Nucl. Phys. **A904-905** (2013) 557c-560c [arXiv:1211.0022]
63. C. Gale, S. Jeon, B. Schenke, P. Tribedy, R. Venugopalan
Initial state fluctuations and higher harmonic flow in heavy-ion collisions
Nucl. Phys. **A904-905** (2013) 409c-412c [arXiv:1210.5144]
64. S. Ryu, S. Jeon, C. Gale, B. Schenke, C. Young
MUSIC with the UrQMD Afterburner
Nucl. Phys. **A904-905** (2013) 389c-392c [arXiv:1210.4588]
65. C. Gale, S. Jeon, B. Schenke, P. Tribedy, R. Venugopalan
Event-by-event anisotropic flow in heavy-ion collisions from combined Yang-Mills and viscous fluid dynamics
Phys. Rev. Lett. **110** (2013) 012302 [arXiv:1209.6330]

66. N. Armesto, B. Cole, C. Gale, W.A. Horowitz, P. Jacobs, S. Jeon, M. van Leeuwen, A. Majumder, B. Müller, G.-Y. Qin, C.A. Salgado, B. Schenke, M. Verweij, X.-N. Wang, U.A. Wiedemann
Comparison of Jet Quenching Formalisms for a Quark-Gluon Plasma 'Brick'
Phys. Rev. **C86** (2012) 064904 [arXiv:1106.1106]
67. B. Schenke, P. Tribedy, R. Venugopalan
Event-by-event gluon multiplicity, energy density, and eccentricities in ultrarelativistic heavy-ion collisions
Phys. Rev. **C86** (2012) 034908 [arXiv:1206.6805]
68. C. Young, B. Schenke, S. Jeon, C. Gale
MARTINI event generator for heavy quarks: Initialization, parton evolution, and hadronization
Phys. Rev. **C86** (2012) 034905 [arXiv:1111.0647]
69. B. Schenke, P. Tribedy, R. Venugopalan
Fluctuating Glasma initial conditions and flow in heavy ion collisions
Phys. Rev. Lett. **108** (2012) 252301 [arXiv:1202.6646]
70. B. Schenke, S. Jeon, C. Gale
Higher flow harmonics from (3+1)D event-by-event viscous hydrodynamics
Phys. Rev. **C85** (2012) 024901 [arXiv:1109.6289]
71. M. Dion, J.-F. Paquet, B. Schenke, C. Young, S. Jeon, C. Gale
Viscous photons in relativistic heavy ion collisions
Phys. Rev. **C84** (2011) 064901 [arXiv:1109.4405]
72. A. Dumitru, J. Jalilian-Marian, T. Lappi, B. Schenke, R. Venugopalan
Renormalization group evolution of multi-gluon correlators in high energy QCD
Phys. Lett. **B706** (2011) 219-224 [arXiv:1108.4764]
73. B. Schenke, S. Jeon, C. Gale
Monte-Carlo Simulation of Hard Probes in Heavy-Ion Collisions
Journal of Physics: Conference Series, Volume 312, Issue 1, 012003 (2011)
74. B. Schenke
Flow in heavy-ion collisions - Theory Perspective
J. Phys. **G38** (2011) 124009 [arXiv:1106.6012]
75. M. Dion, C. Gale, S. Jeon, J.-F. Paquet, B. Schenke, C. Young
Photons at RHIC: The Role of viscosity and of initial state fluctuations
J. Phys. **G38** (2011) 124138 [arXiv:1107.0889]
76. B. Schenke, S. Jeon, C. Gale
Elliptic and triangular flows in 3+1D viscous hydrodynamics with fluctuating initial conditions
J. Phys. **G38** (2011) 124169
77. B. Schenke, S. Jeon, C. Gale
Monte-Carlo simulation of heavy-ion collisions
Int. J. Mod. Phys. **E20** (2011) 1588-1593
78. B. Schenke, S. Jeon, C. Gale
Monte-Carlo simulation of heavy-ion collisions
Nucl. Phys. **A855** (2011) 303-306
79. C. Young, B. Schenke, S. Jeon, C. Gale
Dijet asymmetry at the energies available at the CERN Large Hadron Collider
Phys. Rev. **C84** (2011) 024907 [arXiv:1103.5769].
80. B. Schenke, S. Jeon, C. Gale
Anisotropic flow in $\sqrt{s} = 2.76$ TeV Pb+Pb collisions at the LHC
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81. B. Schenke, S. Jeon, C. Gale
Hydrodynamic evolution and jet energy loss in Cu+Cu collisions
Phys. Rev. C **83** (2011) 044907 [arXiv:1101.0425].
82. B. Schenke, S. Jeon, C. Gale
Elliptic and triangular flow in event-by-event $D=3+1$ viscous hydrodynamics
Phys. Rev. Lett. **106** (2011) 042301 [arXiv:1009.3244].
83. B. Schenke, S. Jeon, C. Gale
 $(3+1)D$ hydrodynamic simulation of relativistic heavy-ion collisions
Phys. Rev. C **82** (2010) 014903 [arXiv:1004.1408].
84. B. Schenke, C. Gale, S. Jeon
MARTINI: Monte Carlo simulation of jet evolution
Acta Physica Polonica B, Proceedings Supplement, Vol. 3, No. 3 (2010) page 765 [arXiv:0911.4470].
85. B. Schenke, C. Gale, S. Jeon
MARTINI: An event generator for relativistic heavy-ion collisions
Phys. Rev. C **80** (2009) 054913 [arXiv:0909.2037].
86. B. Schenke
Jet evolution in Yang-Mills-Wong simulations
Nucl.Phys.A **830** (2009) 689c [arXiv:0907.4111].
87. F. Michler, B. Schenke, C. Greiner
Memory effects in radiative jet energy loss
Phys. Rev. D **80** (2009) 045011 [arXiv:0905.2930].
88. B. Schenke, C. Gale, Q.-Y. Qin
Evolving distribution of hard partons traversing a hot strongly interacting plasma
Phys. Rev. C **79** (2009) 054908 [arXiv:0901.3498].
89. B. Schenke, A. Dumitru, Y. Nara, and M. Strickland, C. Greiner
Transverse momentum diffusion and jet energy loss in non-Abelian plasmas
Phys. Rev. C **79** (2009) 034903 [arXiv:0810.1314].
90. B. Schenke, A. Dumitru, Y. Nara, and M. Strickland,
QGP collective effects and jet transport
J. Phys. G: Nucl. Part. Phys. **35** 104109 [arXiv:0804.4557].
91. A. Dumitru, Y. Nara, B. Schenke, and M. Strickland,
Jet broadening in unstable non-Abelian plasmas
Phys. Rev. C **78** (2008) 024909 [arXiv:0710.1223].
92. B. Schenke and M. Strickland,
Photon production from an anisotropic quark-gluon plasma
Phys. Rev. D **76** (2006) 025023 [arXiv:hep-ph/0611332].
93. B. Schenke and C. Greiner,
Dilepton yields from Brown-Rho scaled vector mesons including memory effects
Phys. Rev. Lett. **98** (2007) 022301 [arXiv:hep-ph/0608032].
94. B. Schenke and C. Greiner,
Non-equilibrium dilepton production in dropping mass scenarios
Nucl.Phys.A **785** (2007) 170c
95. B. Schenke and M. Strickland,
Fermionic collective modes of an anisotropic quark-gluon plasma
Phys. Rev. D **74** (2006) 065004 [arXiv:hep-ph/0606160].
96. B. Schenke and C. Greiner,
Non-equilibrium description of dilepton production in heavy-ion reactions
J. Phys. Conf. Ser. **35** (2006) 398

97. B. Schenke, M. Strickland, C. Greiner and M. H. Thoma,
Model of the effect of collisions on QCD plasma instabilities
Phys. Rev. D **73** (2006) 125004 [arXiv:hep-ph/0603029].
98. B. Schenke and C. Greiner,
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99. B. Schenke and C. Greiner,
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Review articles (from above)

1. S. Mrowczynski, B. Schenke, M. Strickland
Color Instabilities in the Quark-Gluon Plasma
Phys. Rept. **682** (2017) 1-97 [arXiv:1603.08946]
2. F. Gelis, B. Schenke
Initial State Quantum Fluctuations in the Little Bang
Annual Review of Nuclear and Particle Science, Vol. 66: 73-94 [arXiv:1604.00335]
3. K. Dusling, W. Li, B. Schenke
Novel collective phenomena in high-energy proton-proton and proton-nucleus collisions
Int. J. Mod. Phys. E25 (2016) 1630002 [arXiv:1509.07939]
4. C. Gale, S. Jeon, B. Schenke
Hydrodynamic Modeling of Heavy-Ion Collisions
Int. J. Mod. Phys. A28 (2013) 1340011 [arXiv:1301.5893]

Further publications

1. M. Greif, C. Greiner, B. Schenke, S. Schlichting, Z. Xu
Collectivity in small systems - Initial state vs. final state effects
EPJ Web Conf. **172** (2018) 05007
2. B. Schenke
The Ridge Effect
Proceedings of the 51st Rencontres de Moriond on QCD and High Energy Interactions, 19-26 Mar 2016. La Thuile, Italy
3. H. Mäntysaari, B. Schenke
Constraints for proton structure fluctuations from exclusive scattering
Conference: C16-09-23 (Hard Probes 2016) [arXiv:1612.00041]
4. H. Mäntysaari, B. Schenke
Constraining proton geometric fluctuations with incoherent diffractive vector meson production
PoS DIS2016 (2016) 171
5. H. Mäntysaari, B. Schenke
Constraints for proton structure fluctuations from exclusive scattering
Conference: C16-09-23 [arXiv:1612.00041]
6. G. Vujanovic, C. Shen, G.S. Denicol, B. Schenke, S. Jeon, C. Gale
Probing the dissipative properties of a strongly interacting medium with dileptons
Conference: C15-06-29.7 [arXiv:1511.04625]

7. G. Vujanovic, G.S. Denicol, C. Shen, M. Luzum, B. Schenke, S. Jeon, C. Gale
Dilepton emission in high-energy heavy-ion collisions with dissipative hydrodynamics
Conference: C15-05-19 [arXiv:1510.00441]
8. C. Young, B. Schenke, S. Jeon, C. Gale
Realistic modelling of jets in heavy-ion collisions
Proceedings of Hard Probes 2012 [arXiv:1209.5679]
9. C. Young, S. Jeon, C. Gale, B. Schenke
Monte-Carlo simulation of jets in heavy-ion collisions
SLAC Electronic Proceedings [arXiv:1109.5992]
10. F. Michler, B. Schenke, C. Greiner
Finite lifetime effects on the photon production from a quark-gluon plasma
To appear in the proceedings of the 47th International Winter Meeting on Nuclear Physics, Bormio, Italy, Jan, 26-30 2009
arXiv:0906.1734
11. C. Greiner and B. Schenke,
Dileptons from vector mesons with dropping masses in a non-equilibrium quantum field theoretical framework
Appeared in the proceedings of the 22nd Winter Workshop on Nuclear Dynamics, La Jolla, California, Mar 11-19, 2006 [arXiv:hep-ph/0606028]
12. B. Schenke and C. Greiner,
Dilepton production from non-equilibrium hot hadronic matter
Appeared in the proceedings of the 43rd International Winter Meeting on Nuclear Physics, Bormio, Italy, 13-20 Mar 2005 [arXiv:hep-ph/0504278]

PRESENTATIONS

Presentations at international conferences, workshops, colloquia, and seminars

1. 8/3/2018
Azimuthal momentum anisotropies in proton-proton collisions and other small systems
XIIIth Quark Confinement and the Hadron Spectrum
Maynooth University, Maynooth, Ireland
2. 7/2/2018
What have we learnt about the initial state of heavy ion collisions?
Berkeley Jet Physics Jubilee
Lawrence Berkeley National Laboratory, Berkeley, CA, USA
3. 6/14/2018
Highlights from the Beam Energy Scan Theory (BEST) Collaboration
RHIC & AGS Annual Users' Meeting
Brookhaven National Laboratory, Upton, NY, USA
4. 6/6/2018
Initial stage and collectivity in small systems
LHCP 2018
Bologna, Italy
5. 5/16/2018
Elucidating the properties of hot nuclear matter
Quark Matter 2018
Venice, Italy
6. 3/28/2018
System and multiplicity dependence of anisotropic flow
PAN Seminar
Wayne State University, Detroit, MI, USA

7. 3/27/2018
Computing Little Bangs
 SciComp@Wayne Seminar
 Wayne State University, Detroit, MI, USA
8. 12/13/2017
Hydrodynamics and initial state for heavy ion collisions at high baryon density
 Reimei Workshop 2017
 J-PARC, Tokai, Japan
9. 12/4/2017
Origins of azimuthal correlations in high energy nuclear collisions
 Zimanyi-COST Winter School on Heavy Ion Physics 2017
 Wigner Research Center for Physics, Budapest, Hungary
10. 10/27/2017
The physical origin of multi-particle correlations in small collision systems
 DNP Fall Meeting 2017
 Pittsburgh, PA, USA
11. 9/18/2017
Proton shape fluctuations and their effect on flow in p+Pb collisions
 Initial Stages 2017
 Polish Academy of Arts and Sciences, Krakow, Poland
12. 8/1/2017
The initial state
 JETSCAPE Collaboration Meeting
 The Ohio State University, Columbus, OH, USA
13. 6/26/2017
Evidence of proton shape fluctuations from diffraction
 RBRC workshop on Synergies of pp and pA Collisions with an Electron-Ion Collider
 Brookhaven National Laboratory, Upton, NY, USA website
14. 6/20/2017
Hydrodynamics for the Beam Energy Scan
 RHIC & AGS Annual Users' Meeting 2017
 Brookhaven National Laboratory, Upton, NY, USA
15. 6/12/2017
Imprints of fluctuating proton shapes on flow in proton-lead collisions at the LHC
 Light, Color, and Dense Matter Symposium
 University of Minnesota, Minneapolis, MN, USA
16. 5/24/2017
Exclusive Q-Qbar photoproduction and proton structure
 PHOTON 2017
 CERN, Switzerland website
17. 5/10/2017
Imprints of the proton shape in p+Pb collisions
 Workshop on Collectivity in Small Collision Systems
 Niels Bohr Institute, University of Copenhagen, Denmark
18. 4/26/2017
Subnucleonic fluctuations, diffraction, and small-x evolution
 RBRC Workshop on Saturation: Recent Developments, New Ideas and Measurements
 Brookhaven National Laboratory, Upton, NY, USA

19. 4/13/2017
Revealing proton shape fluctuations
 NPA Seminar
 Yale University, New Haven, CT, USA
20. 3/21/2017
Proton sized fluids
 Physics Colloquium
 University of Houston, Houston, TX, USA
21. 3/7/2017
Snapping pictures of the proton with heavy ions
 Physics Colloquium
 Brookhaven National Laboratory, Upton, NY, USA
22. 2/9/2017
Origins of collectivity in small systems
 Quark Matter 2017 Plenary
 Chicago, IL, USA
23. 1/26/2017
The Ridge in $p+p$ collisions: Yang-Mills + Lund fragmentation
 Nuclear Physics Seminar
 Stony Brook University, Stony Brook, NY, USA
24. 12/17/2016
Flow in small systems
 International Workshop on “Flow, Jet Quenching and Strong Coupling Physics”
 Huzhou Teachers College, Huzhou, China
25. 11/16/2016
Evidence of strong proton shape fluctuations from incoherent diffraction
 Joint CTEQ Meeting and POETIC 7
 Temple University, Philadelphia, PA, USA
26. 11/5/2016
Initial state fluctuations in heavy ion collisions
 XII Polish Workshop on Relativistic Heavy-Ion Collisions
 Institute of Physics, Jan Kochanowski University, Kielce, Poland
27. 10/10/2016
Applications of relativistic hydrodynamics: Going small and going forward
 Relativistic Hydrodynamics: Theory and Modern Applications
 Mainz Institute for Theoretical Physics, Johannes Gutenberg University
 Germany
28. 07/19/2016
The shapes and forms of the proton
 ULtra-RelatIvistiCH HEavy IoNZ 2016
 CERN, Switzerland
29. 06/28/2016
Collectivity in small systems: Initial correlations or final state flow?
 Strangeness in Quark Matter 2016
 UC Berkeley, Berkeley, CA, USA
30. 05/11/2016
Hydro and Initial State Working Group Plan
 BEST 2016 - Topical Workshop on the Beam Energy Scan
 Indiana University, Bloomington, IN, USA

31. 04/12/2016
3D modeling of heavy ion collisions
NSCL Theory Seminar
Michigan State University, East Lansing, MI, USA
32. 03/25/2016
The Ridge
Rencontres de Moriond
La Thuile, Italy
33. 02/22/2016
Can $p+p$ and $p+A$ collisions create a quark-gluon fluid?
Medium and High Energy Physics Seminar
University of Illinois at Urbana-Champaign, IL, USA
34. 02/09/2016
Angular Asymmetries in High Multiplicity pp/pA Collisions
RBRC workshop: Emerging Spin and Transverse Momentum Effects in $p+p$ and $p+A$ Collisions
Brookhaven National Laboratory, Upton, NY, USA
35. 01/22/2016
Moving forward to constrain the shear and bulk viscosity of QCD
RBRC workshop: Opportunities for Exploring Longitudinal Dynamics in Heavy Ion Collisions at RHIC Brookhaven National Laboratory, Upton, NY, USA
36. 11/03/2015
Extremely hot fundamental matter: How viscous was the early universe?
Physics Colloquium
Colgate University, Hamilton, NY, USA
37. 10/29/2015
Moving forward to constrain the transport properties of QCD
RHIC & AGS Users' Group Open Forum Meeting
Santa Fe, NM, USA
38. 09/30/2015
Bulk evolution of heavy ion collisions in the beam energy scan
Quark Matter 2015
Kobe, Japan
39. 09/02/2015 *Fluctuations and flow of the world's smallest and hottest fluid*
EuNPC2015
Groningen, The Netherlands
40. 07/03/2015
Theory Summary
Hard Probes 2015
McGill University, Montreal, Canada
41. 06/10/2015
Building Blocks for Bulk Simulations of Heavy-Ion Collisions in the BES
RHIC & AGS Annual Users' Meeting 2015
Brookhaven National Laboratory, Upton, NY, USA
42. 06/10/2015
Hydrodynamics in Small Systems ($p+A$, $d+A$, He^3+A)
RHIC & AGS Annual Users' Meeting 2015
Brookhaven National Laboratory, Upton, NY, USA
43. 05/23/2015
Azimuthal anisotropies from dense initial gluon fields in $p+A$ collisions
CIPANP 2015
Vail, CO, USA

44. 03/05/2015
The smallest, hottest droplet of fluid ever made
Physics Colloquium
Kent State University, Kent, OH, USA
45. 10/23/2014
Fluctuations, collectivity and correlations in high-energy nuclear collisions
KMI Mini-Workshop
KMI, Nagoya University, Nagoya, Japan
46. 10/4/2014
Theory Overview: What we can learn from the MPC-EX
PHENIX MPC-EX Meeting
Brookhaven National Laboratory, Upton, NY, USA
47. 09/13/2014
The standard model for QGP evolution: Theoretical status and future
APS Division of Nuclear Physics: 2014 Long-Range Plan
Joint Town Meetings on QCD
Temple University, Philadelphia, PA, USA
48. 07/07/2014
Initial conditions - status and to do
Toward Quantitative Conclusions from Heavy-Ion Collisions
Michigan State University, East Lansing, MI, USA
49. 06/17/2014
The photon anisotropy puzzle and collisions of deformed nuclei - effects of the glasma
RHIC & AGS Users' Meeting 2014
Brookhaven National Laboratory, Upton, NY, USA
50. 05/28/2014
Fluctuating gluon fields, flow and particle correlations in nuclear collisions
Teilchentee, Ruprecht Karl University of Heidelberg
Heidelberg, Germany
51. 05/21/2014
Multi-Particle production and ridge structure in A+A, p+A, and p+p collisions
Quark Matter 2014
Darmstadt, Germany
52. 05/05/2014
Extreme QCD: Classical fields, perfect fluids, and quantum entanglement
TU Darmstadt
Darmstadt, Germany
53. 04/09/2014
Particle production and final state effects in nuclear collisions
The 30th Winter Workshop on Nuclear Dynamics
Galveston, TX, USA
54. 04/04/2014
Geometry and fluctuations in large and small nuclear collision systems
490th Brookhaven Lecture
Brookhaven National Laboratory, Upton, NY, USA
55. 12/18/2013
The Shape and Flow of Heavy Ion Collisions
490th Brookhaven Lecture
Brookhaven National Laboratory, Upton, NY, USA

56. 10/22/2013
Multi-particle Correlations in Proton-lead Collisions from the Initial State, the Glasma, and the Almost Perfect Fluid
 LNS Seminar
 MIT, Cambridge, MA, USA
57. 09/26/2013
Anisotropic particle production in nuclear collisions: The role of the glasma and hydrodynamics
 Seminar, University of Santiago de Compostela
 Santiago de Compostela, Galicia, Spain
58. 09/11/2013
The role of the glasma and hydrodynamics for azimuthal anisotropies in nuclear collisions
 IS2013
 Illa da Toxa, Galicia, Spain
59. 06/28/2013
Status of extraction of QGP transport parameters
 RHIC & AGS Users' Meeting 2013
 Brookhaven National Laboratory, Upton, NY, USA
60. 06/25/2013
Eta dependence of spectra and v_n and the effect of viscosity at forward rapidities
 RHIC & AGS Users' Meeting 2013
 Brookhaven National Laboratory, Upton, NY, USA
61. 06/05/2013
The shape and flow of heavy-ion collisions
 INPC2013
 Florence, Italy
62. 04/26/2013
Fluctuating gluon fields and flow in high-energy nuclear collisions
 Nuclear Theory Seminar
 Texas A&M University, College Station, TX, USA
63. 04/17/2013
Initial conditions in $A+A$, $p+A$, $d+A$ and $p+p$ collisions
 Workshop on Jet Quenching at RHIC vs LHC
 in Light of Recent dAu and pPb Controls
 Brookhaven National Laboratory, NY, USA
64. 03/26/2013
Fluctuating glue and flow in heavy-ion collisions
 Physics Colloquium
 Brookhaven National Laboratory, NY, USA
65. 03/21/2013 *Glasma fluctuations and harmonic flow in heavy-ion collisions*
 Quarks, Gluons, and Hadronic Matter under Extreme Conditions II
 St. Goar, Germany
66. 03/05/2013
Collective flow in a hot, dense, and strongly interacting medium
 DPG Spring Meeting 2013
 Dresden, Germany
67. 02/19/2013
Glasma fluctuations and harmonic flow in heavy-ion collisions
 Heavy Ion Tea (HIT) Seminar
 Lawrence Berkeley National Laboratory, Berkeley, CA, USA

68. 01/29/2013
Glasma fluctuations and hydrodynamic event-by-event flow at RHIC and LHC
 Nuclear Physics Seminar
 Brookhaven National Laboratory, Upton, NY, USA
69. 12/07/2012
Initial state and hydrodynamic evolution in heavy-ion collisions
 Thermal Radiation Workshop 2012
 Brookhaven National Laboratory, Upton, NY, USA
70. 11/15/2012
Understanding Quantum-Chromo-Dynamics with Heavy-Ion Collisions
 EMMI Seminar
 TU Darmstadt, Germany
71. 11/09/2012
Combined Yang-Mills and relativistic viscous fluid-dynamic simulation of event-by-event flow at RHIC and LHC
 Nuclear Physics Colloquium
 Goethe University, Frankfurt, Germany
72. 10/27/2012
Initial State and Hydrodynamic Models for Particle Production from the Little Bangs
 2012 Fall Meeting of the Division of Nuclear Physics (DNP2012)
 Newport Beach, CA, USA
73. 08/15/2012
Initial state fluctuations and higher harmonic flow in heavy-ion collisions
 Quark Matter 2012
 Washington DC, USA
74. 07/02/2012
Fluctuating glasma initial conditions, multiplicities and flow in heavy-ion collisions
 Workshop on Initial State Fluctuations and Final State Correlations in Heavy-Ion Collisions
 ECT*, Trento, Italy
75. 06/12/2012
Flowing quantum fluctuations
 Symposium on contemporary subatomic physics
 McGill University, Montreal, Canada
76. 06/01/2012
Fluctuating Glasma initial conditions and flow in heavy-ion collisions
 CIPANP 2012
 St. Petersburg, FL, USA
77. 05/01/2012
Fluctuating Glasma initial conditions for heavy-ion collisions
 Seminar in Hadronic Physics
 McGill University, Montreal, Canada
78. 03/31/2012
Interpreting jet results from RHIC and LHC
 APS April Meeting
 Atlanta, GA, USA
79. 03/14/2012
Towards comprehensive simulations of heavy-ion collisions
 Physics Colloquium
 University of Illinois at Chicago, Chicago, IL, USA

80. 12/07/2011
Progress in relativistic viscous hydrodynamics
 Workshop on Thermal Photons and Dileptons
 Brookhaven National Laboratory, Upton, NY, USA
81. 11/30/2011
Analyzing the quark-gluon plasma with higher flow harmonics
 Nuclear Theory Seminar
 University of Maryland, College Park, MD, USA
82. 10/26/2011
Flow at LHC from event-by-event hydrodynamics
 2011 Fall Meeting of the APS Division of Nuclear Physics
 Michigan State University, East Lansing, MI, USA
83. 10/16-21/2011 *Hydrodynamics and Flow*
 Invited lectures at the 2011 H-QM Fall Lecture Week
 Helmholtz Research School - Quark Matter Studies
 Zell, Mosel, Germany
84. 10/11/2011
Monte-Carlo for hard probes in heavy ions
 PHENIX collaboration meeting
 Brookhaven National Laboratory, Upton, NY, USA
85. 09/22/2011
Higher flow harmonics from event-by-event viscous hydrodynamics
 Nuclear Physics Seminar
 Stony Brook University, Stony Brook, NY, USA
86. 09/02/2011
Higher harmonics from viscous hydrodynamics with fluctuating initial conditions
 International Symposium on Non-equilibrium Dynamics
 Heraklion, Crete, Greece
87. 08/24/2011
3+1D viscous relativistic hydrodynamics
 Seminar
 University of Jyväskylä, Jyväskylä, Finland
88. 08/11/2011
Monte-Carlo simulation of jets in heavy-ion collisions
 DPF 2011 - Meeting of the Division of Particles and Fields of the APS
 Brown University, Providence, RI, USA
89. 06/16/2011
Jet Monte-Carlo simulations
 Lecture given at the JET summer school 2011
 Duke University, Durham, NC, USA
90. 05/24/2011
Flow - Theory Perspective
 Quark Matter 2011 plenary talk
 Annecy, France
91. 05/09/2011
*Flow in heavy-ion collisions at RHIC and LHC
 from event-by-event 3+1D viscous hydrodynamics*
 Nuclear and Particle Theory Seminar
 MIT, Cambridge, MA, USA

92. 04/28/2011
Event-by-event 3+1D viscous hydrodynamics for RHIC and LHC
 GHP2011 - The 4th Workshop of the APS Topical Group on Hadronic Physics
 Anaheim, CA, USA
93. 03/24/2011
Anisotropic flow in event-by-event viscous hydrodynamics
 RIKEN Lunch Seminar
 Brookhaven National Laboratory, Upton, NY, USA
94. 03/03/2011
Anisotropic flow and correlations from event-by-event viscous hydrodynamics
 Nuclear Physics Seminar
 The Ohio State University, Columbus, OH, USA
95. 02/15/2011
*Anisotropic flow in heavy-ion collisions
 from event-by-event viscous hydrodynamics*
 Triangle Nuclear Theory Colloquium
 Duke University, Durham, NC, USA
96. 02/02/2011
*Event-by-event Hydrodynamic Description of Anisotropic Flow and Correlations
 at RHIC and LHC*
 RIKEN workshop on
 Initial State Fluctuations and Final-State Particle Correlations
 Brookhaven National Laboratory, Upton, NY, USA
97. 11/17/2010
Understanding the hottest stuff on earth
 Physics Colloquium
 University of Colorado, Boulder, CO, USA
98. 10/11/2010
Monte-Carlo Simulation of Heavy-Ion Collisions
 Hard Probes 2010
 Eilat, Israel
99. 08/27/2010
Monte-Carlo Simulations for Heavy-Ion Collisions
 Nuclear Theory and RIKEN Seminar
 Brookhaven National Laboratory, Upton, NY, USA
100. 08/13/2010
MARTINI: Monte-Carlo for Heavy-Ion Collisions
 Workshop on Jets in p+p and Heavy-Ion Collisions
 Prague, Czech Republic
101. 07/08/2010
Monte-Carlo Simulations for the Hard Probes in Heavy-Ion Collisions
 International Nuclear Physics Conference 2010
 University of British Columbia, Vancouver, BC, Canada
102. 06/18/2010
Jet evolution in a weakly coupled QGP
 JET Collaboration Symposium
 Lawrence Berkeley National Laboratory, Berkeley, CA, USA
103. 06/09/2010
Monte-Carlo simulation of high-energy nucleus-nucleus collisions
 2010 Canadian Association of Physicists (CAP) Congress
 University of Toronto, Toronto, Canada

104. 06/08/2010
Hadron-hadron correlations. A theory overview
 RHIC/AGS users' meeting
 Brookhaven National Laboratory, Upton, NY, USA
105. 04/15/2010
Monte-Carlo simulation of high-energy nucleus-nucleus collisions
 Kernphysikalisches Kolloquium
 Goethe University, Frankfurt, Germany
106. 12/17/2009
Monte-Carlo schemes of energy loss with specific example of MARTINI
 Joint CATHIE and TECHQM workshop
 Brookhaven National Laboratory, Upton, NY, USA
107. 06/12/2009
Jet evolution in stable and unstable non-Abelian plasmas
 Nuclear Theory and RIKEN Seminar
 Brookhaven National Laboratory, Upton, NY, USA
108. 06/06/2009
Jet evolution in heavy-ion collisions
 Theory Canada 5
 Fredericton, NB, Canada
109. 04/03/2009
Jet energy loss and momentum broadening in Wong-Yang-Mills simulations
 Quark Matter 2009
 Knoxville, TN, USA
110. 11/11/2008
Jet energy loss in stable and unstable non-Abelian plasmas
 Triangle Nuclear Theory Colloquium
 Duke University, Durham, NC, USA
111. 09/16/2008
Jet energy loss in stable and unstable non-Abelian plasmas
 Seminar in Hadronic Physics
 McGill University, Montreal, Canada
112. 03/13/2008
Jet propagation and QGP collective phenomena
 72. Annual Meeting of the DPG, Darmstadt, Germany
113. 02/08/2008
QGP collective effects and jet transport
 Quark Matter 2008, Jaipur, India
114. 09/13/2007
Simulations of QGP instabilities in A+A collisions
 invited talk at the workshop on Heavy Ion Physics Perspectives
 Virtual Institute on Strongly Interacting Matter, Bad Liebenzell, Germany
115. 07/25/2007
CPIC - a cutoff free parton cascade
 INT Special Seminar
 Institute for Nuclear Theory, University of Washington, Seattle, Washington, USA
116. 06/22/2007
Quantum transport with memory effects
 Workshop on Electromagnetic probes of strongly interacting matter, ECT*, Trento, Italy

117. 03/12/2007
Photon production from an anisotropic quark-gluon-plasma
 71. Annual Meeting of the DPG, Giessen, Germany
118. 09/26/2006
QGP instabilities under the influence of collisions
 and
Fermionic collective modes of an anisotropic QGP
 INT Workshop on Non-Equilibrium Quark-Gluon Plasma
 Institute for Nuclear Theory, University of Washington, Seattle, Washington,
 USA
119. 05/11/2006
Non-equilibrium dilepton production in dropping mass scenarios
 International Conference on Strong and Electroweak Matter
 Brookhaven National Laboratory, Upton, New York, USA
120. 03/24/2006
The effect of collisions on QCD plasma instabilities
 70. Annual Meeting of the DPG, Munich, Germany
121. 03/24/2006
Dilepton yield from Brown-Rho scaled vector mesons including memory effects
 70. Annual Meeting of the DPG, Munich, Germany
122. 09/26/2005
Disequilibrium dilepton production from hot hadronic matter
 Nuclear Theory Seminar
 Lawrence Berkeley National Laboratory, Berkeley, USA
123. 06/09/2005
Dilepton production from hot hadronic matter in non-equilibrium
 Workshop on Electromagnetic probes of hot and dense matter, ECT*, Trento,
 Italy
124. 03/16/2005
Dilepton production from hot hadronic matter in non-equilibrium
 XLIII International Winter Meeting on Nuclear Physics, Bormio, Italy
125. 03/08/2005
Dilepton production from hot hadronic matter in nonequilibrium
 69. Annual Meeting of the DPG, Berlin, Germany
126. 01/03/2005
Dilepton production from hot hadronic matter in non-equilibrium
 37. RNM Workshop, GSI - Darmstadt, Germany

Further workshops und presentations

1. presentation at the EMMI Workshop and XXVI Max Born Symposium
 July 9-11 2009
 Wroclaw, Poland
2. presentation at the workshop ETD-HIC
 Early Time Dynamics in Heavy Ion Collisions
 July 16-19 2007
 McGill University, Montreal, Canada
3. XXXVIII. Arbeitstreffen Kernphysik Schleching
 February 22 - March 1 2007
 Schleching, Germany

4. INT Workshop: From RHIC to LHC: Achievements and Opportunities
September 25 - October 15 2006
Institute for Nuclear Theory, University of Washington, Seattle, Washington,
USA
5. presentation at the Interdisciplinary Workshop on
Progress in Nonequilibrium Green's Functions III
August 22-26 2005, University of Kiel, Germany
6. Workshop on In-Medium Hadron Physics
November 11-13 2004
Justus-Liebig-University, Giessen, Germany
7. Workshop of the Virtual Institute:
Dense Hadronic Matter & QCD phase transition
July 2-4 2004
Physik-Zentrum Bad Honnef, Germany
8. IPP Summer University for Plasma Physics
17-21 September 2001
MPI for plasma physics, Garching, Germany