

# Curriculum Vitae: Steffen A. Bass

**Name:** Steffen Ashraf Bass  
**Address:** Department of Physics  
Duke University  
Durham, NC 27708-0305, USA  
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**Date of birth:** May 17, 1968 in Frankfurt am Main, Germany  
**Nationality:** United States (naturalized) and German

## Education:

- M.S. (Diplom): Physics, 1993  
J.W. Goethe Universität Frankfurt (Germany), *mit Auszeichnung*
- Ph.D. (Dr. phil. nat.): Theoretical Physics, 1997  
*Eigenschaften heißer, dichter Kernmaterie in mikroskopischen Transportmodellen*  
J.W. Goethe Universität Frankfurt (Germany), *summa cum laude*

## Professional Experience:

- 2015 - present Associate Department Chair for Teaching, Duke University
- 2012 - present Professor (with tenure), Duke University
- 2008 - 2011 Associate Professor (with tenure), Duke University
- 2000 - 2007 Assistant Professor (tenure track), Duke University
- 2000 - 2005 RIKEN BNL Research Center Fellow
- 1999 - 2000 Visiting Assistant Professor, Michigan State University
- 1998 - 1999 Feodor Lynen Fellow and Research Associate at Duke University

## Graduate and postdoctoral advisors:

W. Greiner	J.W. Goethe Universität Frankfurt, Germany	graduate advisor
H. Stöcker	J.W. Goethe Universität Frankfurt, Germany	graduate advisor
B. Müller	Duke University	postdoctoral advisor
W. Bauer	Michigan State University	postdoctoral advisor

## Publications and Presentations:

- Over 145 published refereed articles and 200 oral presentations (see *list of publications and presentations* for details)
- Publications have (according to INSPIRE) over 8,500 citations  
(average per paper: 67, h-index: 43, TOPCITE500+: 4, TOPCITE250+: 3, TOPCITE100+: 13, TOPCITE50+: 18)

### **Graduate and Postdoctoral Advisees:**

- Weiyao Ke (Ph.D. expected 2018)
- Yingru Xu (Ph.D. expected 2018)
- J. Scott Moreland (Ph.D. expected 2017)
- Jonah Bernhard (Ph.D. expected 2016)
- Shanshan Cao (Ph.D. 2014): postdoctoral research associate, LBNL
- Hannah Petersen (postdoc 2010-2012): Associate Professor, Goethe University, Frankfurt
- Guang-You Qin (postdoc 2010-2012): Assistant Professor, Wuhan University
- Nasser Demir (Ph.D. 2010): Assistant Professor, Kuwait University
- Thorsten Renk (postdoc 2004-2006): Academy Researcher, Jyvaskyla University
- Chiho Nonaka (postdoc 2002-2005): Associate Professor, Nagoya University

### **Honors and Awards:**

- 2015: Fellow of the American Physical Society
- 2014: Outstanding Referee, American Physical Society
- 2003: Outstanding Junior Investigator Award, US Dept. of Energy
- 1997: Feodor-Lynen Fellow, A.v.Humboldt Foundation, Germany
- 1993: W.E.-Heraeus-Award, W.E.-Heraeus Foundation, Germany

### **Professional Membership:**

- Deutsche Physikalische Gesellschaft (DPG)
- American Physical Society (APS)
- American Association for the Advancement of Science (AAAS)

### **Service to the Profession:**

- Member, Editorial Board of *Physical Review C*: 2016–2018
- Chair, 2012 Hot & Dense QCD White Paper Writing Committee (WP solicited by the NSAC subcommittee on NP funding)
- Member, APS/DNP Program Committee 2010–2011
- Member, Editorial Board of *Journal of Physics G: Nuclear and Particle Physics* (IOP) 12/2008 – 12/2016
- Chair, NSF Nuclear Theory Proposal Review Panel 2008
- Member, NSF Nuclear Theory Proposal Review Panel 2007
- Referee for *Physical Review C, D, and Letters, Physics Letters B, Nuclear Physics A* and *Journal of Physics G*
- Evaluator for proposals by the US Dept. of Energy and the National Science Foundation

## Conferences organized:

- co-organizer:  
*Campus Infrastructures Community Workshop at Duke University: Connecting Science to Cycles and Data*  
August 27 - August 28, 2013, Duke University
- Member, local organizing committee:  
*23rd International Conference on Ultrarelativistic Nucleus-Nucleus Collisions (Quark Matter 2012)*  
August 13 - August 18, 2012, Washington, DC
- Organizer:  
*From Strong Fields to Colorful Matter – an International Symposium on Modern Nuclear Physics*  
October 24th - October 27th, 2010, Asheville, NC
- Co-organizer:  
*Workshop on Nearly Perfect Fluids: from the Quark-Gluon Plasma to Ultra-Cold Atoms*  
April 6 - April 9, 2009, Durham, NC
- Member, local organizing committee:  
*21st International Conference on Ultrarelativistic Nucleus-Nucleus Collisions (Quark Matter 2009)*  
March 30 - April 4, 2009, Knoxville, TN
- Co-convenor (Hot & Dense QCD working group):  
Workshop on Forefront Questions in Nuclear Science and the Role of High Performance Computing, January 26-28, 2009, Washington DC
- Co-organizer:  
*Hot Quarks 2008*  
August 18-23, 2008, Estes Park, CO
- Co-convenor:  
Heavy-Ion Physics sessions at the 9th Conference on the Intersections of Particle and Nuclear Physics (CIPANP 2006), May 30 - June 3, 2006, Rio Mar, Puerto Rico
- Co-organizer:  
*Hot Quarks 2006*  
May 15-20, 2006, Villasimius, Sardinia, Italy
- Co-organizer:  
RIKEN-BNL workshop on Strongly Coupled Plasmas: Electromagnetic, Nuclear and Atomic  
December 16-17, Brookhaven National Laboratory, Upton, NY
- Session organizer:  
Invited Nuclear Physics Session at the South-Eastern Section of the APS (SESAPS) fall meeting 2004, November 11-13, Oak Ridge, TN
- Co-convenor:  
Heavy-Ion Physics session at DPF 2004, the fall meeting of the Division of Particle Physics of the American Physical Society, August 27-31, 2004, Riverside, CA

- Co-organizer:  
*Hot Quarks 2004*  
July 18-24, 2004, Taos Valley, NM
- Co-organizer:  
Mini-workshop on Quark Recombination  
Institute for Nuclear Theory, University of Washington, Seattle, WA
- Member of the organizing committee:  
RIKEN-BNL workshop on Collective Flow and QGP Properties  
November 17-19, Brookhaven National Laboratory, Upton, NY
- Member of the organizing committee:  
*7th International Conference on Strange Quarks in Matter*  
March 12-17, 2003, Atlantic Beach, NC

### **Teaching:**

Duke University:

- PHY566 *Computational Physics*, Spring 2014-16
- PHY142L *General Physics II* (lecture & course coordination), Fall 2012-14
- PHY260 *Computational Physics*, Spring 2011-12
- PHY054L *General Physics II* (lecture & course coordination), Fall 2011
- PHY054R *General Physics II* (recitation sections), Spring 2010-11
- PHY062R *General Physics II for Engineers* (recitation sections), Fall 2009
- PHY053R *General Physics I* (recitation sections), Fall 2006-08
- PHY203: *Statistical Mechanics*, Spring 2004-06
- PHY181: *Intermediate Mechanics*, Spring 2001-03 and 2007-09

Michigan State University:

- MST: *Math Science Technology: Physics summer course*, August 2000

### **Service to the University:**

- Member, Academic Programs Committee (2015–2018)
- co-Chair, working group on Online Presence, Web and Mobility for the 2016 IT Strategic Plan
- member, Faculty Steering Committee for Academic Programming within Duke's Innovation and Entrepreneurship Initiative (2015 – ongoing)
- Member, Information Technology Advisory Council (2013–2016)
- Member, Executive Committee of the Arts & Science Council (2012–2015)
- Member, Arts & Science Curriculum Committee (2011–2012)
- Member, Arts & Science Council (2011–2015)

- Member, University Priorities Committee (2011–2013)
- Member, Undergraduate Education Committee of the Board of Trustees (2010–2011)
- Member, Executive Committee of the Academic Council (2010–2011)
- Member, Faculty Hearing Committee (2010–2015)
- Member, Academic Council (2009–2011)
- Member/Chair, DAAD scholarship selection committee (member 2005–2008, chair 2008–2010)

**Service to the Department:**

- Chair, Ad-hoc committee on promotion & tenure of Asst. Prof. Ayana Arce (2016)
- ex-officio member, Physics Department Undergraduate Curriculum Committee (2016 – ongoing)
- ex-officio member, Physics Department Graduate Curriculum Committee (2016 – ongoing)
- Member/Chair, Physics Department Website Committee (member 2007 – 2008, chair 2008 – 2011)
- Member, Physics Department Graduate Qualifier Committee (Spring 2005 and 2006 – 2009)
- Chair, Physics Department Computing Committee (PCC) which also serves as departmental computing liaison to the college of Arts & Sciences (2003 – 2008, 2014 – 2015)
- Member, Physics Department colloquium committee (2003 – 2006)
- Member, Physics Department graduate student admissions committee (2002 – 2004)