

Curriculum Vitae
Dr. Peter Alan Steinberg
Physicist
Brookhaven National Laboratory

General:

Name: Dr. Peter Alan Steinberg
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Birth: November 21, 1969 in Chicago, Illinois, USA
Nationality: U.S.A.

Employment History:

04/06 Awarded Tenure
01/07 - present Physicist in Heavy Ion Research Group, Physics Department
10/04 - 01/07 Physicist at Brookhaven National Laboratory, PHOBOS Group, Chemistry
Department
4/02 - 10/04 Associate Scientist at Brookhaven National Laboratory Supervisor: M. Baker
8/02 - 2/03 Fulbright Scholar at the University of Cape Town, South Africa,
Host: J. Cleymans
12/99 - 4/02 Assistant Scientist at Brookhaven National Laboratory, Supervisor: M. Baker
2/98 - 11/99 Post-doc at Columbia University, Nevis Labs, Supervisors: W.A. Zajc
and B.A. Cole.
Experiment: PHENIX at RHIC, Brookhaven, Spokesman: W.A. Zajc

Research Interests:

Experimental Nuclear and High-Energy Physics.
Silicon Detectors. Event building and high-level trigger systems.
Software environments and tools for high energy physics collaborations.

Current Research & Affiliations:

Research Group: Heavy Ion Research Group, BNL Physics Department (PI: F. Videbaek)
Experiments: PHOBOS at RHIC, Brookhaven, Spokesman: W. Busza (MIT)
PHENIX at RHIC, Spokesperson: B. Jacak (Stony Brook)
ATLAS at CERN, Spokesperson: P. Jenni (CERN)

Responsibilities:

11/05 - present ATLAS-HI Computing Liason, ATLAS-HI Global Physics Group
4/05 - present PHOBOS Computing Liason
8/03 - present Project Manager of PHOBOS Experiment
2/01 - 8/03 Head of PHOBOS Computing
3/00 - present Co-convenor of Multiplicity Physics Working Group
11/99 - 2/01 Head of PHOBOS Online Computing

2/98 - 11/99 Development and Implementation of PHENIX Event Builder

Organizational Work:

6/06 Co-organizer of “From High Energy to High μ_B ”, Workshop at the RHIC/AGS Users Meeting, June 5, 2006
5/06 Co-organizer of “Boulder Workshop 2006”, UC Boulder, May 2006
3/05 Co-organizer of “Boulder Workshop 2005”, UC Boulder, March 2005
11/04- Co-organizer of “New Directions” Working Group in the “RHIC II Science” Effort.
9/04 Local co-organizer of “Strange Quark Matter 2004”, 9/10-15/2004, Cape Town, South Africa.
5/04 Co-organizer of “Bulk Dynamics” Workshop at RHIC/AGS Users Meeting, May 10-14, 2004, BNL.
4/04 Co-organizer of “RHIC II Physics and Perspectives on a New Comprehensive Detector”, Yale University.
12/03- Working group for a New RHIC II Detector (R2D)
8/03- Nuclear Physics Planning Group - Brookhaven National Laboratory
8/03-12/03 RHIC Planning Committee - Brookhaven National Laboratory
1/01 Local Organizing Committee and Organizer for Student Pre-Conference Symposium, Quark Matter 2001, Stony Brook, NY.

Education:

2/98 PhD. Received
 “Search for Disoriented Chiral Condensates in 158 AGeV Pb+Pb Collisions”
9/93 - 1/98 PhD. Student in Physics at the Massachusetts Institute of Technology
 Thesis advisor - Bolek Wyslouch.
9/92 - 6/93 Physics coursework at Yale University
5/92 Completion of B.A. in Political Science at Yale University
9/88 - 5/92 Yale University, New Haven, Connecticut
9/74 - 5/88 Francis W. Parker School, Chicago, Illinois

Awards and Honors:

7/03 - present Honorary Research Associate at University of Cape Town, South Africa
8/02 - 03/03 Fulbright Award for Lecturing and Research in Cape Town, South Africa
5/92 Philo S. Bennett Prize for Best Senior Essay in Political Philosophy
9/88 National Merit Scholarship

Teaching Experience

3/03 - 5/03 Honours Module on Particle Physics (textbook: D.H. Perkins)
2/03 - 5/03 Laboratory Instructor & Grader for PHY110A, University of Cape Town, South Africa

Refereed Papers:

- 21 Physical Review Letters
- 22 Physical Review C
- 2 Physics Letters B

Talks:

- “Global Variables in Heavy Ion Collisions at the LHC with the ATLAS Detector”, parallel talk given at Quark Matter 2008, Jaipur, India, February 9, 2008.
- “(Unintended) Consequences of the Glauber Initial State”, talk given at the conference “Early Time Dynamics in Heavy Ion Collisions”, McGill University, Montreal, Canada, July 17, 2007.
- “Introduction to the Study of Heavy Ion Collisions”, three lectures given at the National Nuclear Physics Summer School, Florida State University, Tallahassee, Florida, July 9-11, 2007.
- “Hotter, Denser, Faster, Smaller...and Nearly-Perfect: What’s the matter at RHIC?”, Physics Colloquium at UC Riverside, CA, May 17, 2007.
- “The Tao of PHOBOS”, plenary talk given at the RHIC/AGS Users Meeting, Brookhaven, June 18, 2007.
- “Consequences of Early Thermalization at Low and High p_T ”, talk given at the workshop “High p_T Physics at the LHC”, Jyvaskyla, Finland, March 2007.
- “Scientific Status of the RHIC Heavy Ion Program”, talk given at the Nuclear Physics Long Range Planning workshop “Phases of QCD Matter”, Rutgers University, January 12-14, 2007.
- “Heavy Ion Physics at the LHC with ATLAS”, plenary talk given at Quark Matter 2006, Shanghai, China, November 19, 2006.
- “Hotter, Denser, Faster, Smaller...and Nearly-Perfect: What’s the matter at RHIC?”, Invited talk at Group on Hadron Physics 2006, Nashville, October 22, 2006.
- “Entropy at High E and μ_B ”, talk given at the workshop “Critical Point and the Onset of Deconfinement (CPOD2006)”, Florence, Italy, 5 July 2006.
- “Workshops Summary”, plenary talk given at the RHIC/AGS Users’ Meeting, June 5, 2006.
- “Multiplicity Systematics at high E and μ_B ”, talk given at the workshop “From High Energy to High μ_B ” at the RHIC/AGS Users’ Meeting, June 5, 2006.
- “PHENIX Capabilities for the Low Energy RHIC Run”, talk given at Workshop on the Critical Point at RHIC, March 9, 2006.
- “Hotter, Denser, Faster, Smaller...and Nearly-Perfect: What’s the matter at RHIC?”, Physics Colloquium at The Ohio State University, Columbus, OH, March 7, 2006.
- “Hotter, Denser, Faster, Smaller...and Nearly-Perfect: What’s the matter at RHIC?” 410th BNL Lecture, December 21, 2005.
- “(Nearly) Perfect Fluids and Perturbative Probes: a Primer on RHIC Physics”, Lecture given at the 2005 International School on Subatomic Physics, Erice, Sicily, August 29-September 7, 2005.
- “Forward-Backward Multiplicity Correlations in Au+Au”, parallel talk given at Quark Matter 2005, Budapest, Hungary, August 2005.
- “The Thermochemistry and Hydrodynamics of the Strong Interaction: Results from RHIC”, talk given at the Gordon Research Conference, Bates College, Lewiston, Maine, July 12, 2005.

- “Some RHIC Advice for LHC Day-1 Physics” Talk given at ATLAS Week, CERN, Geneva February 14-18, 2005.
- “Particle Multiplicities in Heavy Ion Collisions” Invited talk at Group on Hadron Physics 2004 (GHP2004), Fermilab, Batavia, Illinois, October 24-26, 2004.
- “Stranger in a Strange Land (Conference Summary)” Invited talk at Strangeness in Quark Matter 2004 (SQM2004), Cape Town, South Africa, Sept 15-20, 2004.
- “Thoughts on Heavy Quark Production” Invited talk at Hot Quarks 2004 (HQ2004), Taos, New Mexico, July 18-24, 2004.
- “Bulk Dynamics in Heavy Ion Collisions” Invited talk at INPC 2004, Goteborg, Sweden, June 28 - July 2, 2004.
- “Landau Hydrodynamics and RHIC Phenomenology” presented at 20th Winter Workshop on Nuclear Dynamics, Jamaica, March 14-21, 2004.
- “The Landscape of Particle Production: Recent Results from PHOBOS” plenary talk presented at Quark Matter 2004, Oakland, CA, January 11-18, 2004.
- “High p_T Physics at RHIC: Glauber Summary”, presented at the RIKEN workshop “High- p_T Physics at RHIC”, Brookhaven National Laboratory, December 2-6, 2003.
- “Landau Hydrodynamics & RHIC Phenomenology”, Invited talk presented at the RIKEN/BNL Workshop “Collective flow and QGP properties”, 17-19 November 2003.
- “Status of Parton Saturation at RHIC”, Invited talk presented at Forward Physics at RHIC Workshop, Brookhaven National Lab, 9 October 2003.
- “Status of Parton Saturation at RHIC”, Invited talk presented at ISMD2003, Krakow, Poland, 5-11 September 2003.
- “Dynamics of Soft Particle Production in Heavy Ion Collisions”, Invited talk presented at CIPANP2003, New York, NY, 19-24 May 2003.
- “Universal Aspects of Particle Production in Heavy Ion Collisions”, Nuclear and Particle Physics Colloquium presented at Massachusetts Institute of Technology, Cambridge, MA, February 3, 2003.
- “Universal Aspects of Particle Production in Heavy Ion Collisions”, Colloquium presented at Schonland Research Centre for Nuclear Sciences, University of the Witwatersrand, Johannesburg, South Africa, December 10, 2002.
- “Relativistic Heavy Ion Physics: Results from AGS to RHIC”. Colloquium presented at the University of Stellenbosch, South Africa, November 8, 2002.
- “Relativistic Heavy Ion Physics: Results from AGS to RHIC”. Colloquium presented at the University of Cape Town, South Africa, August 14, 2002.
- “Universal Behavior of Charged Particle Production in Heavy Ion Collisions”. Parallel session at ICHEP 2002, Amsterdam, The Netherlands, July 24-31, 2002.
- “Universal Behavior of Charged Particle Production in Heavy Ion Collisions”. Parallel session at Quark Matter 2002, Nantes, France, July 18-24, 2002.
- “Relativistic Heavy Ion Collisions: Recent Results”. Invited talk presented at Physics in Collision XXII, Stanford, CA, June 20-22, 2002.
- “Everything Counts: Multiplicity Measurements in High Energy Collisions”. Invited talk presented at the ITP Workshop “QCD in the RHIC Era”, UC Santa Barbara, April 8-12, 2002.

- “Counting on QCD: Multiplicity Measurements in High Energy Collisions”. Physics Department Colloquium at Brookhaven National Laboratory, December 4, 2001.
- “RHIC: QCD Matter in the Laboratory”. Colloquium given at George Washington University, Washington, D.C., November 15, 2001.
- “Recent Results from PHOBOS @ RHIC”. Invited talk presented at the International Symposium on Multiparticle Dynamics, Datong, China, September 1-7, 2001.
- “Energy and Centrality Dependence of Global Observables in Heavy Ion Collisions”. Invited talk presented at the national meeting of the American Chemical Society, Chicago, August 25-29, 2001.
- “A Tale of Two Glauber Calculations: Monte Carlo and Optical Limit Approaches”. Invited talk given at the Glauber2001 Workshop at Brookhaven National Laboratory, July 19, 2001.
- “Elliptic flow and Particle Ratios with PHOBOS”. Invited talk at RHIC/INT Workshop, Lawrence Berkeley National Laboratory, May 31 - June 2, 2001.
- “RHIC Rapporteur II: Global and Flow Observables”. Invited talk at Quark Matter 2001, Stony Brook, January 14-20, 2001.
- “Results from the PHOBOS Experiment at RHIC”. Invited talk at the Annual Fall Meeting of the Division of Nuclear Physics (DNP) of the American Physical Society (APS), Williamsburg, Virginia, October 4-7, 2000.
- “Development of an ATM-based Event Builder for the PHENIX Experiment at RHIC”. Talk given at CHEP98, Chicago, August 31 - September 4, 1998.
- “Searching for DCCs with the WA98 Experiment”. Invited talk at the “Nuclear Chemistry Gordon Research Conference”, New London, NH, June 17, 1998.
- “Search for Disoriented Chiral Condensates in 158 Pb+Pb collisions”. Invited talk at the “International Symposium on Multiparticle Dynamics ’97”, Frascati, Italy, September 11, 1997.