

# CURRICULUM VITÆ

## Thomas Stephan Ullrich

### Personal Information:

Nationality:

German

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### Military Service:

1981 – 1982 (Germany)

### Education:

- May 1994: Doctoral degree (Ph.D.) with *summa cum laude* from the Ruprechts-Karls-Universität in Heidelberg under supervision of Prof. H.J. Specht. Thesis title: “Production of  $e^+e^-$  Pairs in Ultrarelativistic S-Au Collisions at 200 GeV/u”
- February 1989: Diploma in Physics (M.Sc.) from the Ruprechts-Karls-Universität in Heidelberg under supervision of Prof. H.J. Specht. Thesis title: Development and Simulation of Concepts for the Electron-Pair Trigger of the CERES-Experiment.

### Languages:

German (native speaker), English, French

### Fellowships/Awards:

Feodor-Lynen Research Fellowship; Alexander von Humboldt Foundation, Sep 1996 – Mar 1999

Fellow of the American Physical Society (APS) since 2010

### Current Research Interests:

Relativistic Heavy-Ion Physics, Low-x Physics, Saturation Physics and Non-Linear QCD, Charm and Beauty Production, Dihadrons, Quarkonium Suppression in Hadronic Collisions, Statistical Methods in Physics and Pattern Recognition.

## Employment Record

April 2009 – present	Co-Group Leader of the Electron Ion Collider Task Force at BNL
April 2005 – present	Appointment as Professor (Adj.) at Yale University.
June 2004	Received tenure at Brookhaven National Laboratory
October 2000 – December 2006	Convener of the Heavy-Flavor physics working group.
July 2002 – March 2005	Appointment as Associate Professor (Adj.) at Yale University.
November 2001 – February 2002	STAR Deputy-Spokesman.
December 2000 – present	Physicist at Brookhaven National Laboratory. BNL/STAR group research director.
April 1999 – December 2000	Research Scientist at Yale University in the group of John Harris.
October 1998 – November 2001	Physics Analysis Coordinator of the STAR collaboration.
January 1998 – October 1998	Deputy Physics Analysis Coordinator of the STAR collaboration.
September 1996 – March 1999	Lynen-Fellow at Yale University at the Relativistic Heavy Ion Group (Prof. John Harris). Member of the NA49 collaboration at CERN and the STAR collaboration at BNL.
1994 – August 1996	Postdoctoral position at the Physics Department at Heidelberg University and member of the CERES/NA45 collaboration.

## Committee Memberships

- Member of the organizing committee for the High Energy Nuclear Physics Town Meeting at BNL Jan. 21-23 2001.
- Co-author of the White Paper for High Energy Nuclear Physics (2001)
- Member of the Nuclear Physics Seminar Committee at BNL (2001)
- Member of the BNL Nuclear Physics Planning Committee (2002-2005)
- Chairman of the Nuclear Physics Seminar Committee at BNL (2002-2003)
- Member of STAR Upgrade Steering Committee at BNL (2002-present)
- Chairman of the BNL Nuclear Physics Planning Group (Sep 2003-August 2004)
- Member of the RHIC-II Workshops Steering Committee (Oct 2004 – present)

- Convener of the RHIC-II Heavy-Flavor Working Group to prepare the physics case for RHIC-II in the NSAC Long Range Plan (Jan 2005 – present)
- Member of BNL Tenure Committee (2005 and 2008)
- Chair of BNL Tenure Committee (2007)
- Member of the Nuclear Science Advisory Committee (NSAC) (2005 – 2009)
- Member of the DNP/NNPSS steering committee (2008-present)
- Member of the EIC Steering Committee (2006-present)
- Member of the Open Science Grid Science Advisory Group (2009-present)
- Member of the BNL Council (2009-present)
- BNL Council secretary (2010-present)

## **Editorial positions**

- Member of Quark Matter (QM) 2001 Proceedings Editorial Board  
[Proceedings of the 15<sup>th</sup> International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions, Editors: T.J. Hallman, D.E. Kharzeev, J.T. Mitchell, and T. Ullrich, Elsevier Science B.V., Nuclear Physics A698 (2002)]
- Co-Editor of the Strange Quark Matter Proceedings.  
[Proceedings of the 7<sup>th</sup> International Conference on Strangeness in Quark Matter , Editors: S. A. Bass, B. Müller, G.S.F. Stephans, and T. Ullrich, published in J. Phys. G: Nucl. Part. Phys. 30 (2004).
- Co-Editor of the Proceedings of the Hot Quarks 2004, published in J. Phys. G: Nucl. Part. Phys. 30 (2004).
- Co-Editor of the Proceedings of the Hot Quarks 2006, published in Eur.Phys.J.C49 (2007).

## **Conference Advisory and Organizing Committees**

- Member of Quark Matter (QM) 2001 organizing committee
- Member of Quark Matter (QM) 2001 scientific program committee
- Organizer of Workshop on Thermalization and Chemical Equilibration in Heavy Ions Collisions at RHIC July 20-21, 2001, Brookhaven National Laboratory
- Co-Organizer of the Strange Quark Matter (SQM) 2003 conference, Atlantic Beach, NC, USA
- Member of the International Advisory Committee of the Hard Probes 2004 Conference in Lisbon, Portugal, September 2004
- Member of the Strange Quark Matter International Advisory Committee (2003-present)
- Co-Founder and Co-Organizer of the Hot Quark 2004 Conference in Taos, New Mexico, July 18-24, 2004
- Member of Organizing Committee for the RHIC-II Satellite Meeting at the PANIC'05 conference in Santa Fee (July 2004 – October 2005).
- Co-Organizer of the parallel sessions on Quarks and Gluons in Hot/Cold and Dense Matter at the PANIC'05 conference in Santa Fee, October 2005.
- Co-Organizer of the Hot Quark 2006 Conference in Sardinia, Italy, 2005.

- Member of the International Advisory Committee of the Hard Probes 2006 Conference in Berkeley, CA, USA
- Co-Organizer of the 4<sup>th</sup> International Workshop on Heavy Quarkonium 2006 at Brookhaven National Laboratory, Upton, NY (June 27 to 30, 2006)
- Member of the International Advisory Committee of the Strangeness in Quark Matter 2007 Conference in Levoča, Slovakia.
- Member of the International Advisory Committee of the Hard Probes 2008 Conference in Illa da Toxa (Galicia-Spain).
- Member of the International Advisory Committee of the Strangeness in Quark Matter 2008 Conference in Beijing, China.
- Member of the International Advisory Committee of the International Conference on Ultra-Relativistic Nucleus Nucleus Collisions (Quark Matter 2009) in Knoxville, Tennessee, USA.
- Member of the International Advisory Committee of the Hard Probes 2010 Conference in , Eilat, Israel.
- Co-organizer of the International Conference on Ultra-Relativistic Nucleus Nucleus Collisions (Quark Matter 2012) in Washington D.C., USA.

## Referee Services

- Referee for Physical Review Letters
- Referee for Physics Letters B
- Referee for Physical Review C
- Referee for Journal of Physics B
- Referee for Journal of Physics G
- Referee for European Physical Journal C
- Referee for Nuclear Physics A
- Review of various DOE research proposals
- Review of research proposals to the Israel Science Foundation
- Referee service for the Minerva Foundation
- Member of the Review Committee of the ALICE Higher Level Trigger Project (January 2003 at CERN)

## Teaching

- NATO Advanced Study Institute, Summer School, *Lectures on Heavy Ion Experiments at RHIC*, Cargese, France, August 2001
- BNL Public Lecture, *Probing Hot and Dense Matter with Hard Probes*, BNL, NY, USA, June 2002.
- Yale University: Graduate Course PHYS661b, Statistics and Data Analysis Techniques, Spring Semester 2003.
- Yale University: Graduate Course PHYS661, The Art of Data Analysis, Spring Semester 2004.
- Student Lecture at Quark Matter 2004 Conference in Oakland, CA, January 2004.
- Yale University: Graduate Course PHYS678, Computing for Scientific Research, Spring Semester 2006

- Yale University: Graduate Course PHYS678, Computing for Scientific Research, Spring Semester 2007
- QCD Winter School, *Lectures on RHIC physics*, Ecole de Physique in Les Houches, France, March/April 2008.
- Yale University: Graduate Course PHYS678, Computing for Scientific Research, Spring Semester 2009.

## Research

- Studies on eA collisions at a future electron-ion collider, EIC (2006-present)
- Studies of Heavy Flavor production and their interaction in the medium (2002-present)
- Studies for a new comprehensive detector at RHIC-II (2005-2006)
- STAR Collaboration (1996 – present) – Large experiment at the Relativistic Heavy-Ion Collider (RHIC) at Brookhaven National Laboratory.
- NA49 Collaboration (1996 – 1998) Hadron Experiment at the Super Proton Synchrotron (SPS) at CERN.
- CERES/NA45 Collaboration (1987 – 1996) Lepton pair experiment at the Super Proton Synchrotron (SPS) at CERN.

## Grants

- Laboratory Directed Research and Development (LDRD) Program Grant LDRD # 07-006 (Feasibility and Design Study for a Detector for e+p, e+A, p+p, p+A and A+A Collisions). Funding: ██████████ 2007-2009.
- Laboratory Directed Research and Development (LDRD) Program Grant LDRD # 10-042 (Realization of an e+A Physics Event Generator for the EIC). Funding: ██████████, 2010-2012.

## Ph.D Defense Committees and External Reviewer

- Manuel Calderon, *Charged Hadron Spectra in Au+Au Collisions at a Centre-of-Mass Energy of 130 GeV*, Yale University, September 2001 (committee).
- Jonathan Gans, *Inclusive Charged Hadron Spectra at  $\sqrt{s} = 200$  GeV for p+p and d+Au Collisions at the Relativistic Heavy Ion Collider*, Yale University, May 2004 (committee).
- Michael Miller, *Measurement of Jets and Jet Quenching at RHIC*, Yale University, May 2004 (committee).
- Guoji Lin, *Electro-magnetic Physics Studies at RHIC: Neutral Pion Production, Direct Photon HBT, Photon Elliptic Flow in Au+Au Collisions at  $\sqrt{s_{NN}} = 200$  GeV and the Muon Telescope Detector Simulation*, Yale University, May 2009 (external reviewer).

## Publication and Talks

(See separate sheets)