

# CURRICULUM VITÆ

## Thomas Stephan Ullrich

**Personal Information:** Nationality: German  
Title: Prof. Dr.  
Marital Status: Married, two children  
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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:** Feodor-Lynen Research Fellowship; Alexander von Humboldt Foundation, Sep 1996 – Mar 1999

**Current Research Interests:** Relativistic Heavy-Ion Physics, QCD and Chiral Phase Transitions, Particle Properties in Dense Matter, Charm and Beauty Production, Dihadrons, Quarkonium Suppression in Hadronic Collisions, Vector Meson Productions and Formfactors, Statistical Methods in Physics and Pattern Recognition, Neural Networks.

## Employment Record

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|-------------------------------|---|
| April 2005 – present          | Appointment as Professor (Adj.) at Yale University.   |
| June 2004                     | Received tenure at Brookhaven National Laboratory   |
| October 2000 – present        | 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.<br>BNL/STAR group research director.   |
| April 1999 – December 2000    | Research Scientist at Yale University in the group of Prof. 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. Scientific studies on the production of dileptons in p-Be, p-Au, and S-Au collisions at CERN-SPS energies. Responsible for the offline analysis software. Teaching of physics courses and labs. I spent in total 1½ years at CERN, Geneva. The results of my thesis were published in Phys. Rev. Lett. <b>75</b> (1995) and presented at the Quark Matter conferences 1995 and 1996. |

## 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 the Tenure Committee for P. Steinberg at BNL (2005)
- Member of the Nuclear Science Advisory Committee (NSAC) (Dec 2005 – 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, to be published in EPJ C.

## **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)

## 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
- 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

## Research

- Studies on eA collisions at a future electron-ion collider (EIC).
- Studies for a new comprehensive detector at RHIC-II.
- 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.

## **Ph.D Defense Committees**

- Manuel Calderon, *Charged Hadron Spectra in Au+Au Collisions at a Centre-of-Mass Energy of 130 GeV*, Yale University, September 2001.
- 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.

## **Publication and Talks**

(See separate sheets)