

# Curriculum Vitae

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## Torsten Dahms

\*12/09/1979

Nationality: German

### Office Address:

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## Education

Graduate Student in Physics 08/2003 – 09/2008

*Stony Brook University, Stony Brook, NY, USA*

- Ph.D.-Thesis: “*Dilepton spectra in p+p and Au+Au collisions at RHIC*” 09/10/2008  
Thesis Advisor: Axel Drees
- M.A.-Thesis: “*Measurement of Photons via Conversion Pairs with the PHENIX Experiment at RHIC*” 01/20/2005  
Thesis Advisor: Axel Drees

Undergraduate Student in Physics 10/2001 – 08/2003

*Bayerische Julius-Maximilians Universität Würzburg, Germany*

- Vordiplom with grade: 1.3

## Employment Record

CERN Fellow Since 10/2008

*Physics Department, CERN, Geneva, Switzerland*

- Research Fellow in the CMS Group
- Research topics: Quarkonia in p+p and heavy ion collisions, in particular the radiative decay of the  $\chi_c$  meson

Research Assistant 08/2003 – 09/2008

*Department of Physics and Astronomy, Stony Brook University, Stony Brook, NY, USA*

- Research Assistant in the Relativistic Heavy Ion Group (PHENIX)
- Research topics: Thermal Photons and Dielectron Continuum

Student Assistant 03/2001 – 03/2003  
*Clinical IT, University Hospital Lübeck, Germany*

Civilian Service 09/1999 – 07/2000  
*University Hospital Lübeck, Germany*

### Stipends and Fellowships

Young Scientists' Award 2008  
*Nuclear Physics A, Elsevier*

- Awarded for Oral Presentation at Quark Matter 2008

T. A. Pond Prize 2006  
*Department of Physics and Astronomy, Stony Brook University, USA*

- Awarded for the best Comprehensive Exam

ISAP Fellowship (DAAD: German Academic Exchange Service) 09/2003 – 05/2004  
*Bayerische Julius-Maximilians Universität Würzburg, Germany*

- Fellowship for two semesters of graduate studies at Stony Brook University, Stony Brook, NY, USA

### Teaching

Teaching Assistant 09/2004 – 05/2005  
*Stony Brook University, Stony Brook, NY, USA*

- Introductory physics undergraduate labs  
PHY132 (mechanics, thermodynamics, waves)  
PHY134 (electromagnetism, optics)

Teaching Assistant 10/2002 – 07/2003  
*Bayerische Julius-Maximilians Universität Würzburg, Germany*

- Introductory physics labs for undergraduates with physics as minor subject

### Languages:

- German: native speaker
- English: fluent written and spoken

### Professional Memberships and Services

- Member of PHENIX Internal Review Committee: arXiv:0903.2041 [nucl-ex] 2009
- Chair of PHENIX Paper Preparation Group: Phys. Lett. B **670**, 313 (2009) 2008
- Member of PHENIX Paper Preparation Group: arXiv:0804.4168v1 [nucl-ex] 2008
- Member of PHENIX Paper Preparation Group: arXiv:0706.3034 [nucl-ex] 2007
- APS (American Physical Society) Since 2004
- DPG (German Physical Society) Since 2002

## Publications

- 30 publications with the PHENIX Collaboration since 2004
  - Significant contributions have been made to the following publications:
1. “*Dilepton mass spectra in  $p+p$  collisions at  $\sqrt{s} = 200$  GeV and the contribution from open charm*”  
A. Adare *et al.* [PHENIX Collaboration], Phys. Lett. B **670**, 313 (2009)
  2. “*Measurements of thermal photons in heavy ion collisions with PHENIX*”  
T. Dahms, Proc. 20<sup>th</sup> Int. Conf. on Ultra-Relativistic Nucleus—Nucleus Collisions (Quark Matter 2008), J. Phys. G **35**, 104118 (2008)
  3. “*Enhanced production of direct photons in  $Au+Au$  collisions at  $\sqrt{s_{NN}} = 200$  GeV*”  
A. Adare *et al.* [PHENIX Collaboration], arXiv:0804.4168v1 [nucl-ex]
  4. “*Measurement of photons via conversion pairs in  $Au+Au$  collisions at  $\sqrt{s_{NN}} = 200$  GeV with the PHENIX experiment at RHIC*”  
T. Dahms, Proc. 23<sup>rd</sup> Winter Workshop on Nuclear Dynamics (2007) 127, arXiv:0711.4145v1 [nucl-ex]
  5. “*Enhancement of the dielectron continuum in  $\sqrt{s_{NN}} = 200$  GeV  $Au+Au$  collisions*”  
Afanasiev, S. *et al.* [PHENIX Collaboration], arXiv:0706.3034 [nucl-ex]
  6. “*Measurement of photons via conversion pairs in  $\sqrt{s_{NN}} = 200$  GeV  $Au+Au$  collisions with the PHENIX experiment at RHIC*”  
T. Dahms, Eur. Phys. J. C **49**, 249 (2007)

## Presentations

- T. Dahms, “*Quarkonium studies in  $p+p$  and  $Pb+Pb$  collisions with CMS*”, XLVII International Winter Meeting on Nuclear Physics, Bormio, Italy, January 26, 2009
- T. Dahms, “*Dileptons in PHENIX*”, Annual RHIC and AGS Users Meeting, BNL, Upton, NY, USA, May 27, 2008
- T. Dahms, “*Measurements of thermal photons and the dielectron continuum with PHENIX*”, Hot and Dense Matter in the RHIC-LHC Era, Tata Institute of Fundamental Research, Mumbai, India, February 13, 2008
- T. Dahms, “*Measurements of thermal photons in heavy ion collisions with PHENIX*”, Quark Matter 2008 – 20<sup>th</sup> International Conference on Ultra-Relativistic Nucleus—Nucleus Collisions, Jaipur, India, February 8, 2008
- A. Toia & T. Dahms, “*Dileptons at RHIC*”, CERN-TH Workshop on Electromagnetic Radiation in Nuclear Collisions, CERN, Geneva, Switzerland, December 17, 2007
- T. Dahms, “*Dielectrons in  $p+p$  and heavy ion collisions at RHIC*”, invited seminar, Johann Wolfgang Goethe-Universität, Frankfurt, Germany, December 14, 2007
- T. Dahms, “*In-medium modifications of the dielectron continuum at RHIC*”, invited seminar, Stony Brook University, Stony Brook, NY, USA, July 25, 2007
- T. Dahms, “*Measurement of the dielectron continuum in  $p+p$  &  $Au+Au$  collisions at  $\sqrt{s_{NN}} = 200$  GeV with PHENIX*”, 2<sup>nd</sup> Berkeley School of Collective Dynamics in High-Energy Collisions, Berkeley, CA, USA, May 24, 2007
- T. Dahms, “*Search for thermal photons in PHENIX*”, 23<sup>rd</sup> Winter Workshop On Nuclear Dynamics, Big Sky, MT, USA, February 13, 2007
- T. Dahms, “*Electromagnetic probes - PHENIX results*”, Annual RHIC and AGS Users Meeting, BNL, Upton, NY, USA, June 5, 2006
- T. Dahms, “*Measurement of photons via conversion pairs in  $\sqrt{s_{NN}} = 200$  GeV  $Au+Au$  collisions with the PHENIX experiment at RHIC*”, Hot Quarks Workshop, Villasimius, Sardinia, Italy, May 15-20, 2006
- T. Dahms, “*Measurement of photons via conversion pairs with the PHENIX experiment at RHIC*”, APS Division of Nuclear Physics, Fall Meeting, Chicago, IL, USA, October 30, 2004