Cyclotron Institute, MS-3366 Texas A&M University College Station, TX 77843-3366 **tel:** (979)845-1411, **email:** mio@comp.tamu.edu

Saskia Mioduszewski

curriculum vitae

Education and Honors

- APS Maria Goeppert Mayer Award, 2009.
- Sloan Fellowship Award, Alfred P. Sloan Foundation, 2006.
- Sambamurti Award, Brookhaven National Laboratory, 2005.
- Presidential Early Career Award for Scientists and Engineers, U.S. Department of Energy, 2004.
- Ph.D., Experimental Nuclear Physics, University of Tennessee, 1999. Doctoral thesis: Centrality Dependence of Antiproton Production in Proton-Nucleus Collisions at 17.5 and 12.3 GeV/c
- B.S., with honors, Physics and Mathematics, North Carolina State University, 1994.
- Paul H. Stelson Nuclear Physics Award, University of Tennessee, 1998.
- Science Alliance Stipend, University of Tennessee, 1994-1999.
- Marss Math Scholarship, Oak Ridge High School, TN, 1990.

Professional Positions

Texas A&M University

September 2009 - present September 2005 - August 2009

- Associate Professor
- Assistant Professor

Brookhaven National Laboratory

October 2003 - August 2005 October 2001 - October 2003 January 2000 - October 2001

- Associate Scientist
- Assistant Scientist
- Postdoctoral Research Associate

University of Tennessee

September 1994 - December 1999 September 1994 - September 1996

- Graduate Research Assistant
- Graduate Teaching Assistant

Research and Professional Activities

- Teaching: Introductory Mechanics for Life Science majors, Introductory Mechanics for Engineering majors, Analytical Mechanics for graduate students.
- Collaborator in the STAR Experiment at Relativistic Heavy-Ion Collider (RHIC) (2005-present)
- STAR Collaboration Council member (2005-present).
- Member of APS DNP (Division of Nuclear Physics) 2008 Nominating Committee.
- Member of APS DNP (Division of Nuclear Physics) 2009-2010 Program Committee.
- D.O.E. grant proposal reviewer.
- Co-convener of Parallel Sessions on "QCD at High Temperature" at BNL Workshop on Future Prospects in QCD at High Energy, 2006.
- \bullet Co-convenor of High p_T Working Group for RHIC II, the next phase for the Relativistic Heavy-Ion Collider facility (2004-2006).
- Partipating as Lecturer in Saturday Morning Physics Program at Texas A&M University for high school students (2006 and 2007).
- Co-convener of Parallel Sessions on "Quarks and Gluons in Hot/Dense and Cold Matter" at PANIC (Particles and Nuclei International Conference) 2005.

Research and Professional Activities (continued)

- Collaborator in the PHENIX Experiment at RHIC (1995-2005).
 Co-convener of the Physics Working Group on Photons in the PHENIX Collaboration (2002-2004).

Invited Talks and Seminars

| November, 2009 | • Probing High-Temperature Nuclear Matterat the Relativistic Heavy-Ion Collider (RHIC), colloquium for the Physics Department at Trinity University, San Antonio, TX. |
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| May, 2009 | • Probing High-Temperature QCD Matter at the Relativistic Heavy-Ion Collider (RHIC) with High Transverse Momentum Particles, invited talk for the APS Meeting, Denver, CO. |
| November, 2008 June, 2008 | High-pT Probes, invited Talk for the Tamura Symposium, Austin, TX. Present experimental status: high-p_T and initial state, invited summary talk for the Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions, La Toxa, Spain. |
| May, 2008 | Photon-Hadron Correlations at RHIC, invited talk for Electromagnetic Probes Workshop of the RHIC/AGS Users' Meeting, Upton, NY. |
| April, 2008 | • Hard Probes at RHIC, invited talk for Winter Workshop on Nuclear Dynamics, South Padre, TX. |
| March, 2008 | • Hard Probes and Heavy Flavor from STAR, invited talk for Recontres de Moriond: QCD and High Energy Interactions, La Thuile, Italy. |
| August, 2007 | • <i>Introduction to RHIC Physics</i> , invited lecture for <i>Carpathian Summer School of Physics</i> , Sinaia, Romania. |
| July, 2007 | • Photon-Jet Correlations at RHIC, invited talk for Conference on Early Time Dynamics in Heavy Ion Collisions, Montreal, Canada. |
| June, 2007 | Photon-Jet Correlations at RHIC, invited talk for Workshop on Hard Probes of Nuclear Collisions at RHIC & AGS Users' Meeting, Upton, NY. |
| March, 2007 | • Experimental Overview of High- p_T Results from RHIC, invited talk for Workshop on High- p_T physics at LHC, Jyväskylä, Finland. |
| August, 2006 | • Results from RHIC and a Look to the Future, invited talk for the Conference on the Application of Accelerators in Research and Industry (CAARI), Fort Worth, TX. |
| February, 2006 | • Future Plans at RHIC, invited talk at RIKEN-CNS Workshop on the Physics of the Quark Gluon Plasma, RIKEN, Wako, Japan. |
| July, 2005 | • Tools to Characterize the Matter Created at RHIC, Sambamurti Memorial Lectureship, Brookhaven National Laboratory, Upton, NY. |
| June, 2005 June, 2005 | Overview of RHIC Physics, invited talk for the RHIC Retreat, Montauk, NY. Direct Photons at RHIC, invited talk for the Electromagnetic Probes Workshop, ECT*, Trento, Italy. |
| April, 2005 | • Probing the Matter Created at RHIC, BNL Lecture, Brookhaven National Laboratory, Upton, NY. |
| March, 2005 | • <i>Jet Physics at RHIC</i> , colloquium for the Physics Department at Texas A&M University, College Station, Texas. |
| July, 2004 | • Direct Photons at RHIC, invited talk for the Hot Quarks Conference, Taos, New Mexico. |
| June, 2004 | • <i>Jet Quenching at RHIC</i> , invited talk for the <i>Physics in Collision Conference</i> , Boston, Massachusetts. |
| March, 2004 | • <i>High</i> p_T <i>Phenomena at RHIC</i> , colloquium for Physics Department at Ohio State University, Columbus, Ohio. |
| December, 2003 | • The Search for the Quark Gluon Plasma with "Soft" Physics, invited lecture talk for school on Quark Gluon Plasma and Heavy Ion Collisions, Torino, Italy. |
| November, 2003 | • <i>The Search for the Quark Gluon Plasma</i> , colloquium for Cyclotron Institute at Texas A&M University, College Station, Texas. |

Invited Talks and Seminars (continued)

| July, 2003 | • Heavy Ion Physics: An Experimental Review, invited plenary talk for the EPS High Energy Physics Conference, Aachen, Germany. |
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| May, 2003 | • Recent High p_T Measurements from PHENIX, seminar for Niels Bohr Institute, Copenhagen, Denmark. |
| January, 2003 | • High p_T Measurements at RHIC, invited talk for Seventh Workshop on QCD, Villefranche-sur-Mer, France. |
| July, 2002 | • High p_T Measurements from PHENIX, plenary talk for Quark Matter Conference, Nantes, France. |
| January, 2002 | • High p_T Particle Production in PHENIX at RHIC, colloquium for Physics Department at North Carolina State University, Raleigh, NC. |
| August, 2001 | • Suppression of Hadrons with Large Transverse Momentum in Central Au+Au Collisions at $\sqrt{(s_{NN})} = 130$ GeV, seminar for Physics Department (announcing release of PHENIX PRL on this topic), BNL, Upton, NY. |
| June, 2001 | • Results of High p_T Measurements from PHENIX, invited talk for RHIC-INT Workshop, LBNL, Berkeley, CA. |
| March, 2001 | • Neutral Pion Production at RHIC, seminar for Physics Department at Florida State University, Tallahassee, FL. |

Selected Publications

- B.I. Abelev et al., STAR Collaboration, "Studying Parton Energy Loss in Heavy-Ion Collisions via Direct-Photon and Charged-Particle Azimuthal Correlations", arXiv:0912.1871.
- B.I. Abelev et al., STAR Collaboration, "Enhanced strange baryon production in Au+Au collisions compared to p+p at $\sqrt{s_{NN}}$ = 200 GeV", Phys. Rev. C 77 (2008) 44908.
- J. Adams et al., STAR Collaboration, "Forward Neutral Pion Production in p+p and d+Au Collisions at $\sqrt{s_{NN}}$ =200 GeV", Phys. Rev. Lett. 97 (2006) 152302.
- S.S. Adler et al., PHENIX Collaboration, "Measurement of Identified π^0 and Inclusive Photon Second-Harmonic Parameter v_2 and Implications for Direct Photon Production in $\sqrt{s_{NN}}$ =200 GeV Au+Au", Phys. Rev. Lett. 96, (2006) 032302.
- S.S. Adler et al., PHENIX Collaboration, "Centrality Dependence of Direct Photon Production in $\sqrt{s_{NN}}$ =200 GEV Au+Au Collisions", Phys. Rev. Lett. 94 (2005) 232301.
- K. Adcox et al., PHENIX Collaboration, "Single Identified Hadron Spectra from $\sqrt{s_{NN}}$ = 130 GeV Au+Au Collisions", Phys. Rev. C 69 (2004) 024904.
- S.S. Adler et al., PHENIX Collaboration, "Scaling properties of proton and anti-proton production in $\sqrt{s_{NN}}$ = 200 GeV Au+Au collisions", Phys. Rev. Lett 91, 172301 (2003).
- S.S. Adler et al., PHENIX Collaboration, "Absence of Suppression in Particle Production at Large Transverse Momentum in $\sqrt{s_{NN}}$ = 200 GeV d+Au Collisions", Phys. Rev. Lett. 91, 072303 (2003).
- S.S. Adler et al., PHENIX Collaboration, "Suppressed π^0 Production at Large Transverse Momentum in Central Au+Au Collisions at $\sqrt{s_{NN}}$ = 200 GeV", Phys. Rev. Lett. 91, 072301 (2003).
- K. Adcox et al., PHENIX Collaboration, "Suppression of Hadrons with Large Transverse Momentum in Central Au+Au Collisions at $\sqrt{s_{NN}}$ = 130 GeV", Phys. Rev. Letters 88, 022301 (2002).