

# David H. Hardtke

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## RESEARCH EXPERIENCE

### UNIVERSITY OF CALIFORNIA Berkeley, CA

*Assistant Research Scientist (2003 - Present)*

- Research group of P. Buford Price in the Physics Department and Space Sciences Laboratory
- High-energy neutrino astronomy with Antarctic Muon and Neutrino Detector Array (AMANDA) and IceCube
- Searches for massive dark matter particles (Q-balls, nuclearites, GUT scale monopoles)
- Search for high-energy neutrinos from December 27, 2004 SGR 1806-20 Giant Flare
- Led design and construction of In-Ice Bubble Camera deployed in January 2007
- IceCube exotic particles working group leader
  - Monopoles, supersymmetry, black holes, TeV scale gravity, dark matter
- AMANDA Transient Waveform Recorder data analysis coordinator
- AMANDA/IceCube Integration Field Work at South Pole Station

### LAWRENCE BERKELEY NATIONAL LABORATORY Berkeley, CA

*Physicist Scientist (2000 - 2003)*

*Post-Doctoral Fellow (1997-2000)*

- Relativistic Nuclear Collisions Group (Supervisors: James Symons and Peter Jacobs)
- Member of STAR (Solenoidal Tracker at RHIC) collaboration
- Resident at Brookhaven National Laboratory for assembly, testing, and commissioning of STAR Time Projection Chamber(1999-2000)
- STAR reconstruction and calibrations leader (2002 - 2003)
- STAR TPC software and calibrations (1997 - 2003)
- STAR spectra physics working group (1997 - 2001)
  - First measurements of antinucleus production at RHIC
  - Searches for new antinucleus states ( ${}^4\overline{He}$ ,  ${}^3_{\Lambda}\overline{H}$ )
- STAR High  $p_T$  Physics Working Group (2001 - 2003)
  - First identification of jets in nucleus-nucleus collisions
  - Principle Investigator for “monojet” discovery

### THE OHIO STATE UNIVERSITY Columbus, OH

*Graduate Research Assistant (1994 - 1997)*

- Visiting Researcher, CERN, Geneva, Switzerland (1994-1996)
- NA44 simulations leader

## EDUCATION

### THE OHIO STATE UNIVERSITY Columbus, OH

*Ph.D. in Experimental Nuclear Physics (1997)*

- Thesis Advisor: Thomas J. Humanic
- Thesis Title: *Pion Interferometry in 158 GeV/Nucleon Pb+Pb Collisions*

### DUKE UNIVERSITY Durham, NC

*Bachelor of Science (Cum Laude), Physics (1994)*

*Certificate in Canadian Studies*

## TEACHING EXPERIENCE

**UNIVERSITY OF CALIFORNIA** Berkeley, CA

*Lecturer in Department of Physics*

- Taught junior level quantum mechanics (Spring 2004)
  - 50 students in course
  - Supervised graduate student instructor and a reader

**THE OHIO STATE UNIVERSITY** Columbus, OH

*Graduate Teaching Assistant (1994 - 1995)*

- Taught both recitation and laboratory sections in the introductory physics sequence taken by non-physics students.

### **Informal Teaching Activities**

- Research supervision and collaboration with numerous graduate and undergraduate students
- Organized summer lecture series for REU (Research Experience for Undergraduates) students (Summer, 2000)

## PROFESSIONAL AFFILIATIONS & COMMITTEES

- American Physical Society (1994 - Present)
  - Division of Nuclear Physics
  - Division of Astrophysics
- OSU physics computing committee (1996-1997)
- STAR/PDSF oversight committee (2001-2003)
- IceCube collaboration meeting organizing committee (March 2005)
- Referee for Physical Review Letters and Physics Letters B

## AWARDS

- LBNL Outstanding Performance Award (2003)

## PUBLICATIONS

Papers for which I was a primary author:

**Limits on the high-energy gamma and neutrino fluxes from the SGR 1806-20 giant flare of December 27th, 2004 with the AMANDA-II detector,**  
A. Achterberg *et al.*, Phys. Rev. Lett. **97**, 221101 (2006).

**Can hadronic rescattering explain the “jet quenching” at relativistic energies?**  
D. Hardtke and T.J. Humanic, Phys. Rev. C **71**, 034906 (2005).

**Evidence from d+Au measurements for final-state suppression of high  $p_T$  hadrons in Au+Au collisions at RHIC,**  
J. Adams *et al.*, Phys. Rev. Lett. **91**, 072304 (2003).

**Disappearance of back-to-back high  $p_T$  hadron correlations in central Au+Au collisions at  $\sqrt{s_{NN}} = 200$  GeV,**  
C. Adler *et al.*, Phys. Rev. Lett. **90**, 082302 (2003).

**Azimuthal anisotropy and correlations in the hard scattering regime at RHIC,**  
C. Adler *et al.*, Phys. Rev. Lett. **90**, 032301 (2003).

**Kaon interferometry: A sensitive probe of the QCD equation of state?**  
S. Soff, S.A. Bass, D. Hardtke and S.Y. Panitkin, Phys. Rev. Lett. **88**, 072301 (2002).

**$\bar{d}$  and  ${}^3\overline{He}$  production in  $\sqrt{s_{NN}} = 130$  GeV Au+Au collisions,**  
C. Adler *et al.*, Phys. Rev. Lett. **87**, 262301 (2001).

**The Relationship Between Particle Freezeout Distributions and HBT Radius Parameters,**  
D. Hardtke and S.A. Voloshin, Phys. Rev. C **61**, 024905 (2000).

**High energy Pb+Pb collisions viewed by pion interferometry,**  
I.G. Bearden *et al.*, Phys. Rev. C **58**, 1656 (1998).

**Central Coulomb effects on Pion Interferometry,**  
D. Hardtke and T.J. Humanic, Phys. Rev. C **57**, 3314 (1998).

Other papers:

**First year performance of the IceCube neutrino telescope,**  
A. Achterberg *et al.*, Astroparticle Physics **26**, 155 (2006).

**Optical properties of deep glacial ice at the South Pole,**  
M. Ackermann *et al.*, J. Geophys. Res. **111**, D13203 (2006).

**On the selection of AGN neutrino source candidates for a source stacking analysis with neutrino telescopes,**  
A. Achterberg *et al.*, Astroparticle Physics **26**, 282 (2006).

**Limits on the muon flux from neutralino annihilations at the center of the Earth with AMANDA,**  
A. Achterberg *et al.*, Astroparticle Physics **26**, 129 (2006).

**Limits to the muon flux from neutralino annihilations in the Sun with the AMANDA detector,**

M. Ackermann *et al.*, *Astroparticle Physics* **24**, 459 (2006).

**Flux limits on ultra high energy neutrinos with AMANDA-B10,**

M. Ackermann *et al.*, *Astroparticle Physics* **22**, 339 (2005).

**Search for extraterrestrial point sources of high energy neutrinos with AMANDA-II using data collected in 2000-2002,**

M. Ackermann *et al.*, *Phys. Rev. D* **71**, 077102 (2005).

**Multiplicity and pseudorapidity distributions of charged particles and photons at forward rapidity in Au+Au collisions at  $\sqrt{s_{NN}} = 62.4$  GeV,**

J. Adams *et al.*, *Phys. Rev. C* **73**, 034906 (2006).

**Directed flow in Au+Au collisions at  $\sqrt{s_{NN}} = 62.4$  GeV,**

J. Adams *et al.*, *Phys. Rev. C* **73**, 034903 (2006).

**Incident energy dependence of  $p_t$  correlations at relativistic energies,**

J. Adams *et al.*, *Phys. Rev. C* **72**, 044902 (2005).

**Multistrange Baryon Elliptic Flow in Au+Au Collisions at  $\sqrt{s_{NN}} = 200$  GeV,**

J. Adams *et al.*, *Phys. Rev. Lett.* **95**, 122301 (2005).

**Multiplicity and Pseudorapidity Distributions of Photons in**

**Au+Au Collisions at  $\sqrt{s_{NN}} = 62.4$  GeV,**

J. Adams *et al.*, *Phys. Rev. Lett.* **95**, 062301 (2005).

**Distribution of Charged Hadrons Associated with High Transverse Momentum Particles in pp and Au+Au Collisions at  $\sqrt{s_{NN}} = 200$  GeV,**

J. Adams *et al.*, *Phys. Rev. Lett.* **95**, 152301 (2005).

**Experimental and theoretical challenges in the search for the quark-gluon plasma The STAR collaboration's critical assesment of the evidence from RHIC collisions,**

J. Adams *et al.*, *Nucl. Phys. A* **757**, 102 (2005).

**Azimuthal Anisotropy and Correlations at Large Transverse Momenta in**

**p+p and Au+Au Collisions at  $\sqrt{s_{NN}} = 200$  GeV,**

J. Adams *et al.*, *Phys. Rev. Lett.* **93**, 252301 (2004).

**Azimuthal Anisotropy in Au+Au Collisions at  $\sqrt{s_{NN}} = 200$  GeV,**

J. Adams *et al.*, *Phys. Rev. C* **72**, 014904 (2005).

**K(892)\* resonance production Au+Au and p+p collisions at  $\sqrt{s_{NN}}=200$  GeV,**

J. Adams *et al.*, *Phys. Rev. C* **71**, 064902 (2005).

**Pion Interferometry in Au+Au Collisions at  $\sqrt{s_{NN}}=200$  GeV,**

J. Adams *et al.*, *Phys. Rev. C* **71**, 044906 (2005).

**Open Charm Yield in d+Au Collisions at  $\sqrt{s_{NN}} = 200$  GeV,**

J. Adams *et al.*, *Phys. Rev. Lett.* **94**, 062301 (2005).

**Hadronization geometry from net-charge angular correlations on momentum subspace  $(\eta, \phi)$  in Au-Au collisions at  $\sqrt{s_{NN}} = 130$  GeV,**

J. Adams *et al.*, *Phys. Lett. B* **634**, 347 (2006).

**Pseudorapidity asymmetry and centrality dependence of charged hadron spectra in d+Au collisions at  $\sqrt{s_{NN}} = 200$  GeV,**  
J. Adams *et al.*, Phys. Rev. C **70**, 054907 (2004).

**Measurements of transverse energy distributions  
Au+Au collisions at  $\sqrt{s_{NN}} = 200$  GeV,**  
J. Adams *et al.*, Phys. Rev. C **70**, 054907 (2004).

**Transverse-momentum dependent modification of dynamic texture in  
central Au+Au collisions at  $\sqrt{s_{NN}} = 200$  GeV,**  
J. Adams *et al.*, Phys. Rev. C **71**, 031901(R) (2005).

**$\phi$  meson production in Au+Au and  
p+p collisions at  $\sqrt{s_{NN}} = 200$  GeV,**  
J. Adams *et al.*, Phys. Lett. B **612**, 181 (2005).

**Centrality and pseudorapidity dependence of charged hadron production  
at intermediate  $p_T$  in Au+Au collisions at  $\sqrt{s_{NN}} = 130$  GeV,**  
J. Adams *et al.*, Phys. Rev. C **70**, 044901 (2004).

**Production of  $e^+e^-$  pairs accompanied by nuclear dissociation  
in ultraperipheral heavy-ion collisions,**  
J. Adams *et al.*, Phys. Rev. C **70**, 031902(R) (2004).

**Photon and neutral pion production  
in Au+Au Collisions at  $\sqrt{s_{NN}} = 130$  GeV,**  
J. Adams *et al.*, Phys. Rev. C **70**, 044902 (2004).

**Azimuthally Sensitive Hanbury Brown-Twiss Interferometry  
in Au+Au Collisions at  $\sqrt{s_{NN}} = 200$  GeV,**  
J. Adams *et al.*, Phys. Rev. Lett. **93**, 012301 (2004).

**Cross-Sections and Transverse Single-Spin Asymmetries in Forward  
Neutral-Pion Production from Proton Collisions at  $\sqrt{s} = 200$  GeV,**  
J. Adams *et al.*, Phys. Rev. Lett. **92**, 171801 (2004).

**Azimuthal Anisotropy at the Relativistic Heavy-Ion Collider:  
The First and Fourth Harmonics,**  
J. Adams *et al.*, Phys. Rev. Lett. **92**, 062301 (2004).

**Identified Particle Distributions in p+p and Au+Au Collisions at  $\sqrt{s_{NN}} = 200$  GeV,**  
J. Adams *et al.*, Phys. Rev. Lett. **92**, 062301 (2004).

**Multistrange Baryon Production in Au-Au Collisions at  $\sqrt{s_{NN}} = 130$  GeV,**  
J. Adams *et al.*, Phys. Rev. Lett. **92**, 182301 (2004).

**$\rho^0$  Production and Possible Modification in Au+Au and p+p Collisions  
at  $\sqrt{s_{NN}} = 200$  GeV,**  
J. Adams *et al.*, Phys. Rev. Lett. **92**, 092301 (2004).

**Pion-Kaon Correlations in Central Au+Au Collisions at  $\sqrt{s_{NN}} = 200$  GeV,**  
J. Adams *et al.*, Phys. Rev. Lett. **91**, 262302 (2003).

**Multiplicity Fluctuations in Au+Au Collisions at  $\sqrt{s_{NN}} = 130$  GeV,**  
J. Adams *et al.*, Phys. Rev. C **68**, 044905 (2003).

**Three-Pion Hanbury-Brown Twiss Correlations in Relativistic Heavy-Ion Collisions from the STAR Experiment,**

J. Adams *et al.*, Phys. Rev. Lett. **91**, 262301 (2003).

**Particle Type Dependence of Azimuthal Anisotropy and Nuclear Modification of Particle Production in Au+Au Collisions at  $\sqrt{s_{NN}} = 200$  GeV,**

J. Adams *et al.*, Phys. Rev. Lett. **91**, 172302 (2003).

**Transverse-Momentum and Collision-Energy Dependence of High- $p_T$  Hadron Suppression in Au+Au Collisions at Ultrarelativistic Energies,**

J. Adams *et al.*, Phys. Rev. Lett. **91**, 172302 (2003).

**Centrality Dependence of High- $p_T$  Hadron Suppression in Au+Au, Collisions at  $\sqrt{s_{NN}} = 130$  GeV,**

C. Adler *et al.*, Phys. Rev. Lett. **89**, 202301 (2003).

**Narrowing of the Balance Function with Centrality in Au+Au, Collisions at  $\sqrt{s_{NN}} = 130$  GeV,**

C. Adler *et al.*, Phys. Rev. Lett. **90**, 172301 (2003).

**Net charge fluctuations in Au+Au collisions at  $\sqrt{s_{NN}} = 130$  GeV ,**

J. Adams *et al.*, Phys. Rev. **C68**, 044905 (2003).

**STAR Detector Overview,**

K.H. Ackermann *et al.*, Nucl. Instrum. Meth. A **499**, 624 (2003).

**The STAR Time Projection Chamber,**

M. Anderson *et al.*, Nucl. Instrum. Meth. A **499**, 659 (2003).

**Coherent  $\rho^0$  Production in Ultraperipheral Heavy-Ion Collisions,**

C. Adler *et al.*, Phys. Rev. Lett. **89**, 272302 (2002).

**$K^*(892)^0$  production in relativistic heavy ion collisions at  $\sqrt{s_{NN}} = 130$  GeV,**

C. Adler *et al.*, Phys. Rev. C **66**, 061901(R) (2002).

**Centrality Dependence of High- $p_T$  Hadron Suppression in Au+Au Collisions at  $\sqrt{s_{NN}} = 130$  GeV,**

C. Adler *et al.*, Phys. Rev. Lett. **89**, 202301 (2002).

**Midrapidity  $\Lambda$  and  $\bar{\Lambda}$  Production in Au+Au Collisions at  $\sqrt{s_{NN}} = 130$  GeV,**

C. Adler *et al.*, Phys. Rev. Lett. **89**, 092301 (2002).

**Particle Production in central Pb+Pb collisions at 158A GeV/c,**

I.G. Bearden *et al.*, Phys. Rev. **C66**, 044907 (2002).

**Event texture search for phase transitions in Pb+Pb collisions,**

I.G. Bearden *et al.*, Phys. Rev. **C65**, 044903 (2002).

**Deuteron and triton production with high energy sulphur and lead beams,**

I.G. Bearden *et al.*, Eur. Phys. J. **C23**, 237 (2002).

**Midrapidity  $\phi$  production in Au+Au collisions at  $\sqrt{s_{NN}} = 130$  GeV,**

C. Adler *et al.*, Phys. Rev. **C65**, 041901(R) (2002).

**Measurement of inclusive antiprotons from Au+Au collisions at  $\sqrt{s_{NN}} = 130$  GeV,**

C. Adler *et al.*, Phys. Rev. Lett. **87**, 262302 (2001).

**Pion interferometry of  $\sqrt{s_{NN}} = 130$  GeV Au+Au collisions at RHIC,**  
C. Adler *et al.*, Phys. Rev. Lett. **87**, 082301 (2001).

**Two kaon correlations in central Pb+Pb collisions at 158A GeV/c,**  
I.G. Bearden *et al.*, Phys. Rev. Lett. **87**, 112301 (2001).

**Identified particle elliptic flow in Au+Au collisions at  $\sqrt{s_{NN}} = 130$  GeV,**  
C. Adler *et al.*, Phys. Rev. Lett. **87**, 182301 (2001).

**Multiplicity distribution and spectra of negatively charged hadrons in Au+Au collisions at  $\sqrt{s_{NN}} = 130$  GeV,**  
C. Adler *et al.*, Phys. Rev. Lett. **87**, 112303 (2001).

**Midrapidity antiproton-to-proton ratio from Au+Au collisions at  $\sqrt{s_{NN}} = 130$  GeV,**  
C. Adler *et al.*, Phys. Rev. Lett. **86**, 4778 (2001).

**Elliptic Flow in Au+Au collisions at  $\sqrt{s_{NN}} = 130$  GeV,**  
K.H. Ackermann *et al.*, Phys. Rev. Lett. **86**, 402 (2001).

**One and two-dimensional analysis of  $3\pi$  correlations measured in Pb+Pb interactions,**  
I.G. Bearden *et al.*, Phys. Lett. **B517**, 25 (2001).

**Space-time Evolution of the Hadronic Source in Peripheral to Central Pb+Pb Collisions,**  
I.G. Bearden *et al.*, Eur. Phys. J. **C18**, 317 (2000).

**Antideuteron Production in 158A GeV/c Pb+Pb Collisions,**  
I.G. Bearden *et al.*, Phys. Rev. Lett. **85**, 2681 (2000).

**Studies of Dynamics of Electron Clouds in Silicon Drift Detectors,**  
R. Bellewied, *et al.*, Nucl. Inst. Meth. A **439**, 507 (2000).

**Strange Meson Enhancement in PbPb Collisions,**  
I.G. Bearden *et al.*, Phys. Lett. B **471**, 6 (1999).

**Three-pion correlations in sulphur-lead collisions at the CERN SPS,**  
H. Boggild *et al.*, Phys. Lett. B **455**, 77 (1999).

**Collective Expansion in high energy heavy ion collisions,**  
I.G. Bearden *et al.*, Phys. Rev. Lett. **78**, 2080 (1997).

**Mid-rapidity protons in 158A GeV Pb+Pb collisions,**  
I.G. Bearden *et al.*, Phys. Lett. B **388**, 431-436 (1996).

**Coulomb effects in single-particle distributions,**  
H. Boggild *et al.*, Phys. Lett. B **372**, 339-342 (1996).

**Selected  
Conference  
Proceedings**

**Exploring the Neutrino Universe with AMANDA and IceCube,**  
D. Hardtke for the IceCube collaboration, *Fundamental Interactions  
Proceedings of the 20th Lake Louise Winter Institute*,  
World Scientific (2006).

**Relativistic Heavy-Ion Collision: Recent Results from RHIC,**  
D. Hardtke, *Lepton and Photon Interactions at High Energies (Lepton-Photon 2003)  
Proceedings of the XXI International Symposium*,  
International Journal of Modern Physics A **19**, No. 7, 1111 (2004).

**Jets and Dijets in Au+Au and p+p collisions at RHIC,**  
D. Hardtke for the STAR collaboration, *Proceedings of 16th International Conference on  
Ultra-Relativistic Nucleus-Nucleus Collisions*,  
Nucl. Phys. A715, 272 (2003).

**Soft Hadronic Physics at RHIC,**  
D. Hardtke, *Hirschegg '02: Ultrarelativistic Heavy-Ion Collisions, Proceedings of the  
International Workshop XXX on Gross Properties of Nuclei and Nuclear Excitations*,  
GSI, Darmstadt (2002).

**Antinucleus production at RHIC,**  
D. Hardtke for the STAR collaboration, *Proceedings of 15th International Conference on  
Ultra-Relativistic Nucleus-Nucleus Collisions*,  
Nucl. Phys. A698, 671c (2002).

**Inclusive Particle Spectra and Exotic Particle Searches Using STAR,**  
D. Hardtke for the STAR collaboration, *QCD and Multiparticle Production, Proceedings of the  
XXIX International Symposium on Multiparticle Dynamics*, World Scientific (2000).

**High Energy Pb+Pb Collisions as Seen by the NA44 Experiment,**  
D. Hardtke, *et al.*, *Proceedings of the 29th International Conference on  
High Energy Physics*, World Scientific (1999).

**Central Coulomb Effects on Pion Interferometry,**  
D. Hardtke, *Measuring the Size of Things in the Universe: HBT Interferometry and  
Heavy Ion Physics*, World Scientific (1999).



## TALKS

### Invited Talks:

#### **IceCube: New Directions in Astronomy and Particle Physics**

M.I.T. Laboratory for Nuclear Science Seminar

March 6, 2007

Cambridge, Massachusetts, USA

#### **IceCube: New Directions in Astronomy and Particle Physics**

Kavli Institute for Particle Astrophysics and Cosmology Seminar

February 21, 2007

Stanford, California, USA

#### **Exotic Physics with IceCube**

Exotic Physics with Neutrino Telescopes Workshop

September 21, 2006

Uppsala, Sweden

#### **Neutrino Astrophysics at the South Pole**

Space Sciences Laboratory Colloquium

October 14, 2005

Berkeley, California, USA

#### **Imaging the Neutrino Universe with AMANDA and IceCube**

Lake Louise Winter Institute

February 25, 2005

Lake Louise, Alberta, Canada

#### **IceCube as a Dark Matter Detector**

Lawrence Berkeley National Laboratory

Institute for Nuclear and Particle Astrophysics Journal Club

November 3, 2004

Berkeley, California, USA

#### **The Emerging Quark-Gluon Plasma**

Yale University Nuclear Physics Seminar

February 24, 2004

New Haven, Connecticut, USA

#### **Relativistic Heavy-Ion Collisions: Recent Results from RHIC**

(Invited Plenary Review)

XXI International Symposium on Lepton and Photon Interactions  
at High Energies (Lepton-Photon 2003)

August 15, 2003

Batavia, Illinois, USA

#### **Jet Quenching at RHIC**

University of Frankfurt

Institute for Nuclear Physics Colloquium

August 11, 2003

Frankfurt, Germany

#### **What can we learn about particle production from high $p_T$ correlations?**

Columbia University Nuclear Theory Visitor Program 2003,

Jet and Collective Correlations at RHIC

May 26-27, 2003

New York, New York, USA

## **Jet Quenching at RHIC**

University of Arizona Physics Department Colloquium  
April 29, 2003  
Tucson, Arizona, USA

## **Initial- and Final-State Nuclear Effects on Large Transverse Momentum Dihadron Production**

Stony Brook Nuclear Physics Seminar  
March 24, 2003  
Stony Brook, NY

## **Jet Quenching at RHIC**

Vanderbilt University Physics Department Colloquium  
February 6, 2003  
Nashville, Tennessee, USA

## **Jets and Dijets in Au+Au and p+p collisions at RHIC**

(Plenary)  
Quark Matter 2002  
Nantes, France

## **High $p_T$ Azimuthal Correlations: What has been measured and what can they tell us?**

RHIC/INT Winter Workshop 2002 on "First Two Years of RHIC: Theory versus Experiments"  
Seattle, Washington, USA

## **Jet Suppression in RHIC Collisions**

Ohio State University Physics Department Colloquium  
November 5, 2002  
Columbus, Ohio, USA

## **Jets and Dijets in Au+Au and p+p collisions at RHIC**

RIKEN/BNL Research Center Workshop on "Current and future directions at RHIC"  
Upton, New York, USA

## **Soft Hadronic Physics at RHIC**

International Workshop XXX on Gross Properties of Nuclei and Nuclear Excitations  
Hirschegg, Austria

## **$\bar{d}$ and ${}^3\overline{He}$ production in $\sqrt{s_{NN}} = 130$ GeV Au+Au collisions:**

### **Results and implications**

RHIC Winter Workshop 2002 on "Correlations and Fluctuations in Heavy-Ion Collisions"  
Seattle, Washington, USA

## **Soft Hadronic Physics at RHIC**

222nd American Chemical Society National Meeting  
Chicago, IL

## **RHIC: The AntiNucleus Factory**

RHIC 2000, 5th RHIC-INT Workshop and 16th Workshop on Nuclear Dynamics  
Park City, Utah, USA

## **High energy Pb+Pb collisions as seen by NA44**

XXIX International Conference on High Energy Physics  
Vancouver B.C., Canada

**Contributed Talks: Inclusive Particle Spectra and Rare Particle Searches Using STAR**  
XXIX International Symposium on Multiparticle Dynamics  
Providence, Rhode Island, USA

**Antinucleus production at RHIC**  
Quark Matter 2001  
Long Island, New York, USA

**Central Coulomb Effects on Pion Interferometry**  
2nd Catania Relativistic Heavy-Ion Studies  
Acicastello, Italy

**Pion Interferometry in 158 GeV/nucleon Pb+Pb Collisions:  
Recent Results from NA44**, 1997 Joint April APS/AAPT Meeting,  
Washington, D.C., USA

**Hadron Correlations in 158 GeV/nucleon Pb+Pb Collisions**  
1996 Division of Nuclear Physics Meeting, Boston, MA.

**Boson Interferometry in RHI Collisions (NA44 Collaboration)**  
1996 APS Ohio Spring Section Meeting, Columbus, OH.