

## STAFF MEMBERS OF THE PHYSICS DIVISION

Listed below is the staff of the Physics Division for the year ending December 31, 2004.  
The program headings indicate only the individual's current primary activity.

### SCIENTIFIC STAFF EXPERIMENTAL NUCLEAR PHYSICS STAFF

#### Regular Staff

- ¶ Irshad Ahmad, Ph.D., University of California-Berkeley, 1966
  - John R. Arrington Ph.D., California Institute of Technology, 1998
  - Birger B. Back, Ph.D., University of Copenhagen, Denmark 1974
  - Michael P. Carpenter, Ph.D., University of Tennessee-Knoxville, 1988
  - ‡ Cary N. Davids, Ph.D., California Institute of Technology, 1967
  - § Bela Erdelyi, Ph.D., Michigan State University, 2001
  - \* Susan M. Fischer, Ph.D., University of Notre Dame, 1994
  - Donald F. Geesaman, Ph.D., State University of New York-Stony Brook, 1976
  - Kawtar Hafidi, Ph.D., University of Paris South XI, France, 1999
  - ‡‡ Walter F. Henning, Ph.D., Technical University of Munich, Germany, 1968
  - §§ Roy J. Holt, Ph.D., Yale University, 1972
  - \*\* Robert V. F. Janssens, Ph.D., Université Catholique de Louvain, Belgium, 1978
  - Cheng-lie Jiang, Ph.D., China Institute of Atomic Energy, China 1960
  - Michael P. Kelly, Ph.D., University of Washington, 1999
  - Teng Lek Khoo, Ph.D., McMaster University, Canada, 1972
  - Torben Lauritsen, Ph.D., State University of New York-Stony Brook, 1990
  - Eliane S. Lessner, Ph.D., Syracuse University, 1975
  - Christopher J. Lister, Ph.D., University of Liverpool, England, 1977
  - ⊕ Zheng-tian Lu, Ph.D., University of California-Berkeley, 1994
  - Eugene F. Moore, Ph.D., Florida State University, 1988
  - ⊗ Brahim Mustapha, Ph.D., University of Paris, France, 1999
  - Jerry A. Nolen, Jr., Ph.D., Princeton University, 1965
  - Peter N. Ostroumov, Ph.D., Moscow Engineering and Physical Institute, Russia, 1982
  - Richard C. Pardo, Ph.D., University of Texas, 1976
  - David H. Potterveld, Ph.D., California Institute of Technology, 1988
  - K. Ernst Rehm, Ph.D., Technical University, Munich, Germany, 1973
  - Paul E. Reimer, Ph.D., University of Illinois at Urbana-Champaign, 1996
  - ⊕⊕ Guy Savard, Ph.D., McGill University, Canada, 1988
  - ⊗ John P. Schiffer, Ph.D., Yale University, 1954
  - Dariusz Seweryniak, Ph.D., Uppsala University, Sweden, 1994
  - Kenneth W. Shepard, Ph.D., Stanford University, 1970
  - Kenneth M. Teh, Ph.D., Vanderbilt University, 1988
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- ¶ Retired November 2004
  - ‡ Adjunct Professor, Vanderbilt University
  - § Joint appointment with Northern Illinois University
  - \* Joint appointment with DePaul University
  - ‡‡ On leave of absence at GSI, Darmstadt, Germany
  - §§ Adjunct Professor, University of Illinois at Urbana-Champaign
  - \*\* Associate Director of the Physics Division. Adjunct Professor, Michigan State University, Vanderbilt University, and University of Notre Dame
  - ⊕ Professor Coterminous, University of Chicago
  - ⊗ Term Appointment
  - Director of the ATLAS Facility. Adjunct Professor, Michigan State University
  - ⊕⊕ Professor Coterminous, University of Chicago and Adjunct Professor, University of Manitoba, Canada
  - ⊗ Professor Emeritus, University of Chicago

### Special Appointments

- Irshad Ahmad, Ph.D., University of California-Berkeley, 1966
- Lowell M. Bollinger, Ph.D., Cornell University, 1951
- William J. Childs, Ph.D., University of Michigan, 1956
- Donald S. Gemmell, Ph.D., Australian National University, Australia 1960
- Harold E. Jackson, Jr., Ph.D., Cornell University, 1959
- \* Michael Paul, Ph.D., Hebrew University of Jerusalem, Israel, 1973
- ⌘ Ben Zeidman, Ph.D., Washington University, 1957

### THEORETICAL NUCLEAR PHYSICS STAFF

#### Regular Staff

- Henning Esbensen, Ph.D., University of Århus, Denmark, 1977
- Tsung-Shung Harry Lee, Ph.D., University of Pittsburgh, 1973
- Kenneth Nollet, Ph.D., University of Chicago, 2000
- Steven C. Pieper, Ph.D., University of Illinois at Urbana-Champaign, 1970
- Craig D. Roberts, Ph.D., Flinders University of South Australia, 1989
- ‡ James W. Truran, Ph.D., Yale University, 1965
- Robert B. Wiringa, Ph.D., University of Illinois at Urbana-Champaign, 1978

#### Special Appointments

- Paul Benioff, Ph.D., University of California-Berkeley, 1959
- Richard R. Chasman, Ph.D., University of California-Berkeley, 1959
- Fritz Coester, Ph.D., University of Zurich, Switzerland, 1944
- Mitio Inokuti, Ph.D., University of Tokyo, Japan, 1962
- Dieter Kurath, Ph.D., University of Chicago, 1951
- Malcolm H. Macfarlane, Ph.D., University of Rochester, 1955
- § Vijay Pandharipande, Ph.D., University of Bombay, India, 1969
- Murray Peshkin, Ph.D., Cornell University, 1951

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\* Special Term Appointee from the Hebrew University of Jerusalem, India  
⌘ Special Term Appointee. Adjunct Professor, Hampton University  
‡ Joint appointment with the University of Chicago  
§ Special Term Appointee from the University of Illinois at Urbana-Champaign

## TEMPORARY APPOINTMENTS

Michael Bender (from University of Washington)  
Theoretical studies  
(June 2004 - November 2004)

Thomas Duguet (from CEA, Saclay, France)  
Theoretical studies  
(November 2002 - November 2004)

\* Jeffrey R. Guest (from University of Michigan)  
Medium-energy physics studies  
(August 2004 - )

Neil J. Hammond (from University of Liverpool, England)  
Research at ATLAS  
(July 2002 - June 2004)

Arne Hoell (from University of Rostock, Germany)  
Theoretical studies  
(October 2003 - )

Prashanth Jaikumar (from McGill University, Canada)  
Theoretical physics studies  
(September 2004 - )

Peter Mueller (from Johannes Gutenberg-University, Germany)  
Medium-energy physics studies  
(Jully 2003 - )

† Brahim Mustapha (from University of Paris, France)  
ATLAS operations and development  
(May 2000 - May 2004)

Donald A. Peterson (from Oregon State University)  
Research at ATLAS  
(January 2004 - )

Elaine C. Schulte (from University of Illinois at Urbana-Champaign)  
Medium-energy physics studies  
(February 2002 - )

Nicholas D. Scielzo (from University of California-Berkeley)  
Medium-energy physics  
(July 2003 - )

Shrabani Sinha (from India Institute of Technology, Bombay, India)  
Research at ATLAS  
(June 2002 - December 2004)

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\* Argonne Scholar-AHCPF (Arthur Holly Compton Postdoctoral Fellowship)

† Term appointment in May 2004

Nikolai Vinogradov (from Moscow Engineering Physical Institute, Russia)  
ATLAS operation and development  
(November 2001 - )

Hariprakash Sharma (from University of Manitoba, Canada)  
Research at ATLAS  
(July 2004 - )

Xiaodong Tang (from Texas A&M University)  
Research at ATLAS  
(May 2003 - )

Stewart V. Wright (from University of Liverpool, England)  
Theoretical physics studies  
(September 2004 - )

Xiaochao Zheng (from Massachusetts Institute of Technology)  
Medium-energy physics  
(January 2003 - )

Zhen Zhou (from University of Giessen, Germany)  
Research at ATLAS  
(February 2002 – June 2004)

Shaofei Zhu (from University of Notre Dame)  
Research at ATLAS  
(January 2004 - )

**TECHNICAL AND ENGINEERING STAFF**  
(and areas of activity)

Kevin G. Bailey (B.S., University of Nebraska, 1989)  
Technical assistance, medium-energy physics

Donald Barnett  
ATLAS operations

John M. Bogaty (A.A.S., DeVry University, 1961)  
Electrical systems, ATLAS operation and development

L. Kevin Carlquist (A.S., College of DuPage, 1986)  
ATLAS operations

\* Benny E. Clifft (A.S.E.E., DeVry University, 1959)  
Electrical systems, ATLAS operation and development

† Donald Cyborski  
Computer operations

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\* Special Term Appointee

† Retired April 2004, Special Term Appointee

Alex Deriy (B.S., University of Illinois-Chicago, 1988)  
ATLAS operations

Gregory Devane  
ATLAS operations

\* Joseph Falout (B.S.M.E., University of Illinois-Chicago, 1970)  
Experimental equipment design

Joel Fuerst (M.S.M.E., Northwestern University, 1990)  
Cryogenic development at ATLAS

Scott M. Gerbick (B.S., Purdue University, 2003)  
ATLAS experimental equipment maintenance, technical assistance, heavy-ion physics

John P. Greene (M.S., DePaul University, 1982)  
Target preparation

Gerald Gribbon (A.A., DeVry University, 1992)  
ATLAS operations

\* Ray E. Harden (A.A.S., Milwaukee School of Engineering, 1957)  
ATLAS operator

\* Dale J. Henderson (B.S., Elmhurst College, 1951)  
Detector development, technical assistance, heavy-ion physics

Robert Jenkins  
ATLAS operations

Mark Kedzie  
ATLAS experimental equipment development

\* Raymond B. Kickert  
ATLAS experimental equipment maintenance, technical assistance, heavy-ion physics

\* David Kurth  
Graphic specialist

Anthony Krupa (A.A.S.-E.E.T., Purdue University, 1987)  
ATLAS operations

Anthony Levand (B.S.M.E., University of Illinois at Urbana-Champaign, 1986)  
Experimental equipment design at ATLAS

Eric Lindert (B.S., University of Wisconsin-Milwaukee, 1992)  
ATLAS operations

Britt Lundgren (B.A., University of Chicago, 2003)  
Heavy-ion research at ATLAS

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\* Special Term Appointee

- \* Paul Markovich (B.S., Purdue University, 1972)  
Surface chemistry, ATLAS development and operation
  
- Thomas P. Mullen (B.S., Marquette University, 1966)  
Division ESH/QA engineer
  
- Floyd Munson, Jr. (A.A.S., DeVry University, 1966; B.S., Lewis University, 1993)  
Control system for ATLAS
  
- Bruce G. Nardi (A.A.S., Morton Jr. College, 1967; A.A.S., DeVry University, 1969)  
Electronics design and maintenance
  
- Tom O'Connor (M.S., DePaul University, 1995)  
Technical assistance, medium-energy physics
  
- Tad Pennington (M.S. University of Missouri, 1989; M.S. University of Alabama, 1998)  
Detector development, technical assistance, heavy-ion physics
  
- Donald Phillips (A.S., DeVry University, 1974)  
ATLAS operations
  
- \* John Phillips (M.S., University of Illinois-Chicago, 1986)  
Consulting ESH/QA engineer
  
- Maria Power (M.S., Illinois Institute of Technology, 1993)  
Technical assistance, ATLAS control system
  
- John Rohrer  
Experimental equipment support, heavy-ion physics
  
- Robert Scott (B.S., University of Illinois-Chicago, 1995)  
ATLAS operations
  
- Sergey Sharamentov (M.S., Moscow Engineering Physical Institute, Russia, 1976)  
Electrical systems, ATLAS operation and development
  
- Brent R. Shumard (B.S., University of Valparaiso, 2002).  
Detector development, technical assistance, heavy-ion physics.
  
- \* James R. Specht (A.A.S., DeVry University, 1964)  
Cryogenics engineer. ATLAS development and operation
  
- Philip Strickhorn (B.S., DeVry University, 1990)  
Electrical and technical assistance with ATLAS operations
  
- Cory Stuart (B.S., Lewis University, 2002)  
Computer operations
  
- Seetha Sundaram (B.S., University of Madras, India, 1989)  
ATLAS operations

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\*Special Term Appointee

Richard Vondrasek (B.S., University of Chicago, 1990)  
ATLAS ECR source

- \* Loren Weber (M.S., Northern Illinois University, 1974)  
ATLAS operations

Philip R. Wilt (Johnstown Technical School, 1973)  
Electronics design and maintenance

Bruce J. Zabransky (M.S., University of Illinois, Chicago, 1973)  
Mechanical engineer

Gary P. Zinkann (B.S., DeVry University, 1975)  
ATLAS operations supervisor

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- \* Special Term Appointee

### ADMINISTRATIVE STAFF

- \* Allan Bernstein, M.B.A., Rosary College, 1986
- \* James E. Nelson, B.A., University of Illinois-Chicago, 1975
- † Karen J. Thayer
- ‡ Barbara Fletcher (B.A., DePaul University, 1998)
- Janet Bergman (Administrative Secretary)
- Jeannie Glover (Administrative Secretary)
- Jessica Herrera (Secretary)
- Debra Morrison (Administrative Secretary)
- Katherine Peters (Administrative Secretary)
- Elizabeth Rizzo (Administrative Assistant)
- Colleen Tobolic (Administrative Secretary)
- Barbara Weller (Administrative Secretary)

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- \* Assistant Director of the Physics Division
  - † Special Term Appointee
  - ‡ Executive Secretary

### VISITORS AND STUDENTS

#### Long-Term Visitors (at Argonne more than 4 months)

Vladislav Asseev (from Institute for Nuclear Research of Russian Academy of Sciences, Russia)  
Accelerator development  
(October 2003 - )

Philip Caligiuri (from University of Chicago)  
Research at ATLAS  
(April 2003 - April 2004)

Partha Chowdhury (from University of Massachusetts-Lowell)  
Research at ATLAS  
(October 2003 - June 2004)

Jason Clark (from University of Manitoba, Canada)  
Heavy-ion research at ATLAS  
(May 1999 - )

Moulay El Alaoui Ahmed (from Laboratory for Theoretical Physics, Morocco)  
Medium-energy physics  
(February 2001 - )

William Karstens (from Saint Michaels College)  
Theoretical physics studies  
(July 2003 - )

Andrei Kolomiets (from Institute of Theoretical and Experimental Physics, Moscow, Russia)  
Research at ATLAS  
(April 2004 - )

Andreas Krassnigg (from University of Graz, Austria)  
Theoretical physics studies  
(January 2003 - )

Masahiro Notani (from Michigan State University)  
Heavy-ion research at ATLAS  
(January 2004 - May 2005)

Iouri Sanjiev (from St. Petersburg Nuclear Physics Institute, Gatchina, Leningrad, Russia)  
Medium energy studies  
(November 2000 - )

Hariprakash Sharma (from University of Manitoba, Canada)  
Heavy-ion research at ATLAS  
(July 2004 - )

Kumar Sharma (from University of Manitoba, Canada)  
Heavy-ion research at ATLAS  
(July 2004 - )

\* Eugene Shiles (from University of Vermont-Burlington)  
Theoretical physics studies  
(August 2002 - )

\* David Smith (from University of Vermont-Burlington)  
Theoretical physics studies.  
(February 2002 - )

Isao Tanihata (from RIKEN the Institute of Physical and Chemical Research, Japan)  
Heavy-ion research at ATLAS  
(March 2004 - )



Antonio Villari (from GANIL, Caen, France)  
Heavy-ion research at ATLAS  
(August 2004 - )

Jicheng Wang (from University of Manitoba, Canada)  
Heavy-ion research at ATLAS  
(January 2001 - July 2004)

### **Short-Term Visitors** (at Argonne less than 4 months)

\* Nour-eddi Berrah (from Western Michigan University)  
Atomic physics research  
(October 1991 - )

\* Christopher Fasano (from Monmouth College)  
Theoretical studies  
(February 1999 - )

\* Michael Kroupa (from Monmouth College)  
Theoretical physics studies  
(July 2002 - )

Arlene Larabee (from Greenville College)  
Heavy-ion research at ATLAS  
(June 2004 - August 2004)

Rachid Nouicer (from University of Chicago)  
Heavy-ion research at ATLAS  
(April 1998 - )

Achim Richter (from Darmstadt University of Technology, Germany)  
Heavy-ion research at ATLAS  
(February 2004 - March 2004)

Alan Wuosmaa (from Western Michigan University)  
Research at ATLAS  
(May - June 2004)

### **Resident Graduate Students**

Zachary Conway (from University of Illinois at Urbana-Champaign)  
Research at ATLAS  
(June 2003 - )

Jason Shergur (from University of Maryland)  
Research at ATLAS  
(January 2002 - )

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\* Guest Faculty Research Participant

Peter Simko (from Illinois Institute of Technology)  
Computer operations  
(October 2003 - )

### Guest Graduate Students

Lamiaa El Fassi (from Mohammed V University, Rabat, Morocco):  
Medium-energy physics  
(September 2003 - )

Nathan Hoteling (from University of Maryland)  
Research at ATLAS  
(February 2003 - )

Louis Jisonna (from Northwestern University)  
Heavy-ion research at ATLAS  
(June 2000 - )

Issam Qattan (from Northwestern University, Evanston, IL):  
Medium-energy physics studies  
(September 2001 - )

Li-Bang Wang (from University of Illinois, Urbana, IL):  
Medium-energy studies  
(September 2001 - )

Yu Yan Wang (from University of Manitoba, Canada):  
Research at ATLAS  
(September 2003 - )

### Undergraduate Students

Ryan Blinstrup (Monmouth University)  
Andrew Bump (DeVry University)  
Robyn Brewer (DeVry University)  
Kevin Broadnax (North Carolina AT&T State University)  
Robert Carrier (St. Xavier University)  
David Cipriano (DeVry University)  
Samuel Clapp (Williams College)  
Mark Durante (North Central College)  
Jennifer Fallis (University of Manitoba, Canada)  
Andrew Giagnacova (Lincoln University)  
Mark Gieras (DeVry University)  
Michael Kern (DeVry University)  
Michael King (Purdue University)  
Jesse London (University of Chicago)  
Benjamin Mitchell (North Central College)  
Chad Muir (University of Illinois at Urbana-Champaign)  
Roman Mongado (DeVry University)

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\* Guest Faculty Research Participant

Janelle Neubauer (North Central College)  
Ilana Percher (Oberlin College)  
Peter Probst (University of Illinois-Chicago)  
Nathan Rassi (University of Illinois at Urbana-Champaign)  
Peter Probst (University of Illinois-Chicago)  
Stuart Russell (University of Manitoba, Canada)  
Matthew Scholte-van de Vorst (University of Manitoba, Canada)  
Matthew Sternberg (University of Oregon)  
William Trimble (University of Washington)  
Onome Ugbeme (University of New Orleans)  
Gregory Waligorski (DeVry University)

