

H. ASSISTANCE TO OUTSIDE USERS OF ATLAS

E. F. Moore

This year has seen a continuation of a large number of outside Users of ATLAS, in part due to the very active, successful program utilizing Gammasphere, which ran until mid-March 2000. However, there has been considerable outside User involvement in other experimental programs described elsewhere in this report. Outside Users were involved in about 95% of all experiments performed in fiscal year 2000. Frank Moore has been available in a user liaison capacity to handle the scheduling of ATLAS experiments, provide assistance in experiment proposal submission matters, and help facilitate the effective performance of research at ATLAS by outside scientists. In addition, a large portion of the Heavy-Ion in-house scientific staff has spent time in experiment setup, preparation, and assistance for the many different Gammasphere experiments.

The Program Advisory Committee met three times during the 2000 fiscal year. Program Advisory Committee meetings were held on October 11-12, 1999, March 3-4, 2000 and September 22, 2000 to recommend experiments for running time at ATLAS. In FY 2000 the Program Advisory Committee members were:

Birger Back (Sep-00)	Argonne National Laboratory
David Balamuth (Oct-99, Mar-00)	University of Pennsylvania
James Beene (Mar-00, Sep-00)	Oak Ridge National Laboratory
Jolie Cizewski (Sep-00)	Rutgers University
Stuart Freedman (Sep-00)	University of California
Bernard Haas (Oct-99, Mar-00)	Institut de Recherches Subatomiques (Strasbourg)
I-Y. Lee (Oct-99, <i>chair</i>)	Lawrence Berkley Laboratory
David Morrissey (Sep-00)	Michigan State University
Witek Nazarewicz (Oct-99)	University of Tennessee
Lee Riedinger (Oct-99, Mar-00, Sep-00 <i>chair</i>)	University of Tennessee
Bradley Sherrill (Oct-99, Mar-00)	Michigan State University
Robert Tribble (Oct-99, Mar-00, Sep-00)	Texas A&M University
Alan Wuosmaa (Oct-99, Mar-00, Sep-00)	Argonne National Laboratory

The PAC reviewed 31 proposals for 155 days of requested running time, 29 proposals for 156 days of running time, and 29 proposals for 179 days of running time at the three meetings, respectively. Of the submitted proposals for the three meetings, the program advisory committee recommended acceptance of 56 proposals for a total of 256 days of running time.

The ATLAS User Executive Committee organized a joint User Group meeting chaired by Jolie Cizewski in conjunction with the Gammasphere and Berkley 88" Cyclotron User Groups during the October 2000 Division of Nuclear Physics APS meeting held at Williamsburg, VA. Approximately 100 scientists attended the meeting. The main topics of discussion concerning Argonne were the status of ATLAS, updates on various experimental programs and issues surrounding Gammasphere. In FY 2000 the ATLAS Executive Committee consisted of Jolie Cizewski (Rutgers University) as Chairperson, Michael Wiescher (University of Notre Dame), Partha Chowdhury (U. Mass Lowell), and Gene Sprouse (SUNY at Stony Brook).

A wide variety of experiments were carried out at ATLAS during the last year, with emphasis placed on utilization of Gammasphere during its tenure at ATLAS. The strength and diversity of the research program at ATLAS continues to rely heavily on active involvement by universities and other institutions.

a. Experiments Involving Outside Users

All experiments in which outside users directly participated during FY 2000 are listed below. Two experiments involved no outside users. The spokesperson for each experiment is given in square brackets after the title, and the collaborators who were present for the experiment are given with their home institution below each entry.

- (1) Study of the Breakout from the Hot CNO Cycle to the (rp) Process via the $^{18}\text{Ne}(\alpha,p)^{21}\text{Na}$ Reaction [Rehm]
P. Parker, Yale University; J. Uusitalo, University of Jyväskylä; R. Siemssen, University of Groningen; B. Harss, Tu München; R. Segel, Northwestern University; I. Wiedenhoever, Michigan State University; F. Borasi, Ludwig Maximilians-Universität München; A. Sonzogni, Brookhaven National Laboratory; P. Collon, P. Crotty, J. Greene, A. Heinz, D. Henderson, R. Janssens, C. Jiang, J. Nolen, R. Pardo, T. Pennington, K. Rehm, J. Schiffer, Argonne National Lab.
- (2) Alpha and Proton Calibration of Microball [Sarantites]
F. Lerma, W. Reviol, D. Sarantites, Washington University; A. Axelsson, M. Weiszflog, Uppsala University; H. Eberth, T. Steinhardt, Universität zu Köln; C. Svensson, University of Guelph; J. Wilson, University of Copenhagen; G. Ball, TRIUMF; R. Austin, R. Duncan, McMaster University; A. Corina, C. Fahlander, D. Rudolph, Lund University; M. Devlin, Los Alamos National Lab.; R. Clark, A. Macchiavelli, Lawrence Berkeley National Lab.; S. Fischer, De Paul University; M. Carpenter, R. Janssens, Argonne National Lab.
- (3) A New Magnetic Rotor: ^{206}Rn Conversion Coefficients for a Dipole Band in ^{206}Rn [Beausang]
C. Beausang, A. Hecht, J. Novak, Yale University; I. Birriel, J. Saladin, University of Pittsburgh; M. Carpenter, R. Janssens, T. Lauritsen, K. Lister, Argonne National Lab.
- (4) Superdeformation, Shell Structure and Neutron-Proton Correlations at $A \sim 90$, $N \sim Z$ [Cederwall]
E. Ideguchi, D. Sarantites, Washington University; J. Wilson, University of Copenhagen; T. Back, B. Cederwall, K. Jonsson, W. Klamra, Royal Institute of Technology; N. Johnson, Oak Ridge National Laboratory; M. Devlin, Los Alamos National Lab.; D. Napoli, Lab. Nazionali di Legnaro; O. Skeppstedt, Chalmers University of Technology; M. Hausmann, Universität Göttingen; J. Caggiano, R. Janssens, D. Seweryniak, Argonne National Lab.
- (5) High-Accuracy Determination of the Q-Value of Superallowed 0^+ to 0^+ Beta-Emitters with the CPT Mass Spectrometer [Savard]
J. Clark, J. Fingler, H. Fukutani, K. Sharma, University of Manitoba; G. Sprouse, S.U.N.Y. at Stony Brook; C. Boudreau, F. Buchinger, A. Cassidy, J. Crawford, S. Gulick, J. Lee, McGill University; J. Caggiano, P. Collon, A. Heinz, F. Kondev, M. Maier, G. Savard, J. Schwartz, D. Seweryniak, C. Trempe, J. Vaz, Argonne National Lab.
- (6) K-Shell Excitation of He-Like Ni at Intermediate Energy [Dunford]
S. Cheng, University of Toledo; A. Livingston, University of Notre Dame; P. Mokler, GSI, Darmstadt; R. Dunford, M. Huang, E. Kanter, K. Rehm, B. Zabransky, Argonne National Lab.
- (7) Band Structure in ^{78}Y and Question of $T = 0$ Pairing [Paul]
D. Sarantites, Washington University; W. Walters, University of Maryland; C. Baktash, S. Paul, Oak Ridge National Laboratory; C. Fahlander, D. Rudolph, Lund University; M. Carpenter, C. Davids, R. Janssens, K. Lister, D. Seweryniak, Argonne National Lab.
- (8) Test of a Method to Study Sub-ms Proton and α Emitters [Seweryniak]
J. Ressler, University of Maryland; I. Wiedenhoever, Michigan State University; J. Caggiano, M. Carpenter, C. Davids, A. Heinz, R. Janssens, T. Khoo, F. Kondev, T. Lauritsen, K. Lister, D. Seweryniak, Argonne National Lab.
- (9) Ion Irradiations of Anisotropic High-Tc Superconductors: Probing Dynamics of Magnetic Vortices [Miller]
D. Hofman, University of Illinois-Chicago; P. Berghuis, D. Kim, D. Miller, Argonne National Lab.
- (10) Approaching the $N = Z = 50$ Closed Shell: Spectroscopy of ^{102}Sn [Baktash]
D. Sarantites, Washington University; C. Baktash, M. Lipoglavsek, S. Paul, D. Radford, C. Yu, Oak Ridge National Laboratory; C. Fahlander, D. Rudolph, Lund University; A. Likar, M. Vencelj, Jozef Stefan Institute; M. Carpenter, D. Seweryniak, Argonne National Lab.

- (11) Measurement of the $^{17}\text{F}(p,\alpha)^{14}\text{O}$ and $^{17}\text{F}(p,p)^{17}\text{F}$ Reactions [Harss]
P. Parker, Yale University; D. Sarantites, Washington University; R. Siemssen, Univ. of Groningen;
B. Harss, Tu Munchen; R. Segel, Northwestern University; I. Wiedenhoever, Michigan State University;
D. Rudolph, Lund University; M. Paul, Hebrew University of Jerusalem; J. Caggiano, P. Collon,
A. Heinz, R. Janssens, C. Jiang, R. Pardo, K. Rehm, J. Schiffer, Argonne National Lab.
- (12) Study of Proton Transfer Reactions in Actinide Nuclei: Spectroscopy Beyond Pu and Cm [Janssens]
D. Cline, C. Wu, University of Rochester; G. Hackman, University of Kansas; I. Wiedenhoever,
Michigan State University; M. Devlin, N. Fotiadis, E. Seabury, Los Alamos National Lab.;
K. Abu Saleem, I. Ahmad, J. Caggiano, M. Carpenter, J. Greene, A. Heinz, R. Janssens, T. Khoo,
F. Kondev, K. Lister, Argonne National Lab.
- (13) Measurements of g-Factors in Neutron-Rich Fission Fragments [Smith]
O. Dorvaux, B. Gall, B. Roux, Université Louis Pasteur; J. Onakanmi, D. Patel, G. Simpson,
A. Smith, J. Smith, R. Wall, University of Manchester
- (14) Decay Properties of Particle-Unbound States in $^{19}\text{Ne}/\text{II}$ [Borasi]
R. Siemssen, University of Groningen; R. Segel, Northwestern University; I. Wiedenhoever, Michigan
State University; F. Borasi, Ludwig Maximilians-Universität München; M. Paul, Hebrew University of
Jerusalem; J. Caggiano, P. Collon, J. Greene, A. Heinz, C. Jiang, R. Pardo, K. Rehm, J. Schiffer,
R. Vanswol, A. Wuosmaa, Argonne National Lab.
- (15) Patterning of Columnar Defects with Heavy-Ion Lithography in High Temperature Superconductors [Kwok]
A. Petrean, Western Michigan University; R. Olsson, Michigan State University; R. Cojrocaru,
W. Kwok, A. Mazilu, V. Tobos, Argonne National Lab.
- (16) Lifetime Measurements and the Identification of New Nuclei Using the $^{64}\text{Zn} + ^{64}\text{Zn}$ Reaction [La Fosse]
D. Sarantites, Washington University; D. Jenkins, N. Kelsall, R. Wadsworth, University of York;
J. Smith, University of Manchester; A. Boston, H. Chantler, P. Choy, E. Paul, University of Liverpool;
C. Chiara, D. Fossan, T. Koike, D. La Fosse, K. Starosta, S.U.N.Y. at Stony Brook; R. Janssens,
D. Seweryniak, Argonne National Lab.
- (17) Search for Discrete Energy Proton and Alpha-Particle Decay of Nanosecond Isomers in the ^{100}Sn Region:
Spectroscopy of $^{105-107}\text{Sb}$, $^{106,107}\text{Te}$, and $^{102-104}\text{Sn}$ [Sarantites]
R. Charity, M. Furlotti, W. Reviol, D. Sarantites, L. Sobotka, V. Tomov, Washington University;
I. Wiedenhoever, Michigan State University; D. Rudolph, Lund University; R. Clark, M. Cromaz,
P. Fallon, A. Macchiavelli, Lawrence Berkeley National Lab.; M. Carpenter, D. Seweryniak, Argonne
National Lab.
- (18) Gamma Spectroscopy of Neutron-Rich $N = 20-28$ Nuclei Produced in Deep-Inelastic Heavy-Ion Reactions
[Fornal]
S. Lunardi, G. Viesti, University of Padova; P. Bhattacharyya, C. Constantinescu, P. Daly,
Z. Grabowski, Purdue University; M. Cinausero, Lab. Nazionali di Legnaro; R. Broda, B. Fornal,
W. Krolas, T. Pawlat, J. Wrzesinski, Institute of Nuclear Physics; M. Carpenter, R. Janssens, K. Lister,
D. Seweryniak, Argonne National Lab.
- (19) Test of ^{86}Kr Beam Production and Heavy Element Synthesis [Janssens]
I. Wiedenhoever, Michigan State University; J. Shergur, University of Maryland; A. Mahmud,
University of Edinburgh; P. Reiter, Ludwig Maximilians-Universität München; K. Abu Saleem,
I. Ahmad, J. Caggiano, P. Collon, J. Greene, A. Heinz, W. Henning, R. Janssens, C. Jiang, T. Khoo,
F. Kondev, T. Lauritsen, R. Pardo, T. Pennington, J. Schiffer, D. Seweryniak, Argonne National Lab.

- (20) Exotic Shapes in ^{106}Cd [Clark]
R. Wadsworth, University of York; R. Clark, P. Fallon, G. Lane, M. Stephens, Lawrence Berkeley National Lab.
- (21) Probing the Interplay Between Intrinsic and Collective Motion at the Extremes of Spin, Spin Projection and Seniority [Kondev]
D. Balabanski, M. Danchev, T. Goon, D. Hartley, O. Zeidan, University of Tennessee; H. El-Masri, P. Walker, C. Wheldon, University of Surrey; P. Chowdhury, I. Shestakova, University of Massachusetts, Lowell; D. Cullen, University of Liverpool; G. Sletten, University of Copenhagen; M. Carpenter, R. Janssens, F. Kondev, K. Lister, Argonne National Lab.
- (22) Lifetimes in the (Super)-Deformed ($f_{7/2}$)⁴ Intruder Band in the $N = Z$ Nucleus ^{36}Ar [Svensson]
D. Sarantites, Washington University; C. Svensson, University of Guelph; G. Ball, TRIUMF; D. Appelbe, R. Austin, McMaster University; R. Clark, M. Cromaz, A. Macchiavelli, Lawrence Berkeley National Lab.; M. Carpenter, R. Janssens, Argonne National Lab.
- (23) Spectroscopy of the $N = Z - 2$ Nucleus ^{46}Cr [Garrett]
E. Tavukcu, North Carolina State Univ.; D. Appelbe, J. Cameron, McMaster University; P. Garrett, Los Alamos National Lab.; R. Bauer, J. Becker, L. Bernstein, W. Younes, Lawrence Livermore National Lab.; D. Warner, Daresbury Laboratory; M. Carpenter, R. Janssens, K. Lister, D. Seweryniak, Argonne National Lab.
- (24) Study of ^{237}Np via "Unsafe" Coulomb Excitation: The Role of Proton Excitation in Octupole Correlations [Janssens]
I. Wiedenhoever, Michigan State University; K. Abu Saleem, I. Ahmad, J. Caggiano, M. Carpenter, J. Greene, A. Heinz, R. Janssens, T. Khoo, F. Kondev, T. Lauritsen, K. Lister, D. Seweryniak, Argonne National Lab.
- (25) Identification of Excited States in the $N = Z + 2$ Nucleus $^{110}_{54}\text{Xe}_{56}$ Using Recoil α -Decay Tagging [Smith]
W. Reviol, D. Sarantites, Washington University; R. Wadsworth, A. Wilson, University of York; J. Shergur, University of Maryland; A. Fletcher, J. Lisle, D. Patel, J. Smith, University of Manchester; A. Boston, H. Chantler, E. Paul, University of Liverpool; C. Chiara, D. Fossan, T. Koike, D. La Fosse, K. Starosta, S.U.N.Y. at Stony Brook; D. Seweryniak, M. Carpenter, Argonne National Lab.
- (26) Response of CMOS VLSI Preamplifiers to Ionizing Radiation [Wuosmaa]
D. Hofman, University of Illinois-Chicago; B. Back, R. Betts, A. Wuosmaa, Argonne National Lab.
- (27) Coupled Particle-Particle and Particle-Gamma Angular Correlation Measurements in $^{12}\text{C} + ^{12}\text{C}$ Inelastic Scattering [Wuosmaa]
D. Hofman, R. Nouicer, University of Illinois-Chicago; I. Wiedenhoever, Michigan State University; B. Back, R. Janssens, A. Wuosmaa, Argonne National Lab.
- (28) Study of Excited States in ^7He [Rehm]
R. Siemssen, University of Groningen; I. Wiedenhoever, Michigan State University; J. Caggiano, P. Collon, J. Greene, A. Heinz, D. Henderson, R. Janssens, C. Jiang, F. Kondev, R. Pardo, T. Pennington, K. Rehm, J. Schiffer, Argonne National Lab.
- (29) A Recoil-Gated Plunger Lifetime Measurement of ^{188}Pb with Gammasphere and the FMA [Dewald]
J. Cooper, Yale University; A. Dewald, R. Peusquens, B. Saha, Universität zu Köln; U. Garg, S. Zhu, University of Notre Dame; A. Oros-Peusquens, I. Wiedenhoever, Michigan State University; C. Barton, Clark University; M. Carpenter, A. Heinz, F. Kondev, Argonne National Lab.

- (30) A Study of $^{12}\text{C} + ^{12}\text{C}$ Radiative Capture [Lister]
B. Fulton, University of York; R. Nouicer, University of Illinois- Chicago; M. Freer, University of Birmingham; I. Wiedenhoever, Michigan State University; R. Betts, J. Caggiano, M. Carpenter, A. Heinz, R. Janssens, T. Khoo, F. Kondev, K. Lister, D. Seweryniak, A. Wuosmaa, Argonne National Lab.
- (31) High-Spin States in ^{181}Hg and ^{183}Hg : Signature-Dependent Prolate-Oblate Interaction Strengths and Microscopic Structure of the Shape-Coexisting States [Lane]
P. Fallon, G. Lane, Lawrence Berkeley National Lab.; A. Byrne, G. Dracoulis, Australian National University; M. Carpenter, R. Janssens, F. Kondev, D. Seweryniak, Argonne National Lab.
- (32) Proton and Neutron Excitations Relevant to Shape Co-Existence in the A~180 Region [Carpenter]
W. Reviol, Washington University; M. Danchev, D. Hartley, University of Tennessee; J. Cizewski, M. Smith, Rutgers University; H. Amro, W. Ma, Mississippi State University; I. Wiedenhoever, Michigan State University; G. Lane, Lawrence Berkeley National Lab.; M. Carpenter, C. Davids, A. Heinz, R. Janssens, T. Khoo, F. Kondev, T. Lauritsen, K. Lister, Argonne National Lab.
- (33) Spectroscopy of the N = Z Nucleus ^{76}Sr [Fischer]
D. Sarantites, Washington University; D. Jenkins, University of York; D. Balamuth, University of Pennsylvania; J. Ressler, J. Shergur, University of Maryland; J. Durell, University of Manchester; S. Fischer, De Paul University; M. Carpenter, D. Henderson, T. Pennington, D. Seweryniak, Argonne National Lab.
- (34) Detector Test with Au Beam [Sarantites]
D. Sarantites, W. Reviol, Washington University
- (35) Proton Emission Studies of Spherical and Highly Deformed Odd-Odd Nuclei Produced with a ^{78}Kr Beam [Davids]
J. Ressler, J. Shergur, W. Walters, University of Maryland; T. Davinson, A. Mahmud, K. Schmidt, P. Woods, University of Edinburgh; A. Sonzogni, Brookhaven National Laboratory; C. Davids, A. Heinz, D. Seweryniak, Argonne National Lab.
- (36) Proton Decay of Highly Deformed La Isotopes [Davids]
W. Walters, University of Maryland; J. Uusitalo, University of Jyväskylä; A. Mahmud, K. Schmidt, P. Woods, University of Edinburgh; G. Poli, Ospedali Riuniti di Bergamo; M. Smith, Oak Ridge National Laboratory; A. Sonzogni, Brookhaven National Laboratory; C. Davids, A. Heinz, D. Seweryniak, Argonne National Lab.
- (37) Investigation of Vortex Physics: Phase Transitions, Dynamics and Weak Links [Kwok]
L. Paulius, Western Michigan University; G. Karapetrov, W. Kwok, A. Mazilu, Argonne National Lab.
- (38) Test of HpGeDSSD Planar Detector [Lister]
D. Jenkins, University of York; T. Sienko, Purdue University; B. Philips, Naval Research Laboratory; S. Fischer, De Paul University; M. Carpenter, R. Janssens, T. Khoo, F. Kondev, K. Lister, D. Nisius, D. Seweryniak, Argonne National Lab.
- (39) BaF₂ Array Testing and In-Beam Calibration [Hofman]
D. Hofman, University of Illinois-Chicago; V. Nanal, Tata Institute of Fundamental Research; I. Dioszegi, S.U.N.Y. at Stony Brook; K. Eisenman, P. Heckman, J. Seitz, M. Thoennessen, Michigan State University; F. Camera, F. Della Vedova, University of Milan; B. Back, M. Carpenter, A. Heinz, T. Khoo, F. Kondev, B. McClintock, S. Mitsouka, R. Vanswol, Argonne National Lab.
- (40) Measurement of ^{44}Ti Nucleosynthesis by γ and Atom Counting [Paul]
S. Hui, Purdue University; J. Goerres, M. Wiescher, University of Notre Dame; M. Paul, Hebrew University of Jerusalem; I. Ahmad, J. Caggiano, P. Collon, J. Greene, A. Heinz, D. Henderson, R. Janssens, C. Jiang, T. Pennington, K. Rehm, G. Savard, R. Vondrasek, Argonne National Lab.

- (41) Study of Backward Angle α Scattering on ^{44}Ti [Rehm]
R. Siemssen, University of Groningen; M. Paul, Hebrew University of Jerusalem; I. Ahmad, J. Caggiano, P. Collon, J. Greene, A. Heinz, R. Janssens, C. Jiang, R. Pardo, K. Rehm, J. Schiffer, R. Vanswol, A. Wuosmaa, Argonne National Lab.
- (42) Test of Evaporation Residue Counters [Reviol]
M. Furlotti, W. Reviol, S. Ryu, D. Sarantites, Washington University; D. Seweryniak, Argonne National Lab.
- (43) Measurement of $^{44}\text{Ti}(\alpha, p)^{47}\text{V}$ Cross Sections at Low Energies [Sonzogni]
R. Siemssen, University of Groningen; R. Segel, Northwestern University; M. Paul, Hebrew University of Jerusalem; A. Sonzogni, Brookhaven National Laboratory; J. Caggiano, P. Collon, C. Davids, A. Heinz, D. Henderson, R. Janssens, R. Pardo, T. Pennington, K. Rehm, J. Schiffer, D. Seweryniak, G. Zinkann, Argonne National Lab.
- (44) Test of a Method to Study Sub-ms Proton and α Emitters [Seweryniak]
W. Reviol, D. Sarantites, Washington University; M. Carpenter, A. Heinz, R. Janssens, D. Seweryniak, Argonne National Lab.
- (45) Low-Spin Levels in Light Odd-Mass Sn Nuclides Populated in the Decay of Sb Nuclides [J. Ressler]
J. Ressler, J. Shergur, W. Walters, University of Maryland; D. Brenner, Clark University; K. Abu Saleem, C. Davids, A. Heinz, D. Seweryniak, Argonne National Lab.
- (46) Production of Shell-Stabilized Heavy Nuclei Using Cold Symmetric Reactions [Sonzogni]
J. Uusitalo, University of Jyväskylä; J. Cizewski, Rutgers University; G. Poli, Ospedali Riuniti di Bergamo; M. Smith, Oak Ridge National Laboratory; P. Reiter, Ludwig Maximilians-Universität München; A. Sonzogni, Brookhaven National Laboratory; I. Ahmad, C. Davids, J. Greene, A. Heinz, T. Khoo, F. Kondev, T. Lauritsen, K. Lister, D. Seweryniak, R. Vanswol, Argonne National Lab.
- (47) Hot GDR and Dissipation in ^{224}Th [Seitz]
D. Jenkins, University of York; D. Hofman, University of Illinois-Chicago; R. Siemssen, University of Groningen; V. Nanal, Tata Institute of Fundamental Research; K. Eisenman, P. Heckman, J. Seitz, M. Thoennessen, Michigan State University; B. Back, T. Khoo, F. Kondev, B. McClintock, R. Vanswol, Argonne National Lab.
- (48) Highly Selective Studies of the GDR in Hot Nuclei [Hofman]
D. Hofman, University of Illinois-Chicago; V. Nanal, Tata Institute of Fundamental Research; I. Dioszegi, S.U.N.Y. at Stony Brook; K. Eisenman, P. Heckman, J. Seitz, M. Thoennessen, Michigan State University; B. Back, M. Carpenter, A. Heinz, T. Khoo, F. Kondev, B. McClintock, S. Mitsouka, R. Vanswol, Argonne National Lab.
- (49) Highly Selective Studies of the GDR in Hot Nuclei [Hofman]
D. Jenkins, University of York; D. Hofman, University of Illinois-Chicago; R. Siemssen, University of Groningen; V. Nanal, Tata Institute of Fundamental Research; P. Heckman, M. Thoennessen, Michigan State University; B. Back, M. Carpenter, D. Henderson, M. Kelly, T. Khoo, F. Kondev, Argonne National Lab.

b. Outside Users of ATLAS During the Period October 1, 1999 - September 30, 2000

This list includes all outside Users who were an experiment spokesperson (a), alternate spokesperson (b), student (*) or collaborator actually present at ATLAS for an experiment. An additional 25 Users listed as collaborators on the various experiment proposals were not at ATLAS in person, and thus are not represented in the list below.

- | | |
|---|--|
| (1) Argonne National Lab. (non-Physics) | (11) Jozef Stefan Institute (Slovenia) |
| P. Berghuis | A. Likar |
| b H. Claus | * M. Vencelj |
| R. Cojrocaru | |
| b K. Gray | (12) Lab. Nazionali di Legnaro (Italy) |
| M. Huang | M. Cinausero |
| b G. Karapetrov | D. Napoli |
| D. Kim | |
| a W. Kwok | (13) Lawrence Berkeley National Lab. |
| * A. Mazilu | a R. Clark |
| a D. Miller | M. Cromaz |
| V. Tobos | P. Fallon |
| | a G. Lane |
| (2) Australian National University | b A. Macchiavelli |
| A. Byrne | M. Stephens |
| G. Dracoulis | b D. Ward |
| | F. Stephens |
| (3) Brookhaven National Laboratory | |
| a A. Sonzogni | (14) Lawrence Livermore National Lab. |
| J. Stankas | R. Bauer |
| | J. Becker |
| (4) Chalmers University of Technology | L. Bernstein |
| (Sweden) | a P. Garrett |
| b Ö. Skeppstedt | W. Younes |
| | |
| (5) Clark University | (15) Los Alamos National Lab. |
| * C. Barton | b M. Devlin |
| D. Brenner | N. Fotiadis |
| | E. Seabury |
| (6) Daresbury Laboratory (UK) | |
| D. Warner | (16) Ludwig Maximilians-Universität |
| | München (Germany) |
| (7) De Paul University | a F. Borasi |
| a S. Fischer | P. Reiter |
| | |
| (8) GSI, Darmstadt (Germany) | (17) Lund University (Sweden) |
| * M. Maier | C. Fahlander |
| P. Mokler | D. Rudolph |
| T. Stohlker | |
| | |
| (9) Hebrew University of Jerusalem (Israel) | (18) McGill University |
| a M. Paul | * C. Boudreau |
| | F. Buchinger |
| (10) Institute of Nuclear Physics (Poland) | * A. Cassidy |
| R. Broda | J. Crawford |
| a B. Fornal | S. Gulick |
| W. Krolas | J. Lee |
| T. Pawlat | C. Trempe |
| J. Wrzesinski | |

- (19) McMaster University
D. Appelbe
* R. Austin
b J. Cameron
R. Duncan
- (20) Michigan State University
K. Eisenman
* P. Heckman
* R. Olsson
A. Oros-Peusquens
* J. Seitz
b M. Thoennessen
I. Wiedenhoever
T. Glasmacher
- (21) Mississippi State University
H. Amro
W. Ma
- (22) Naval Research Laboratory
B. Philips
- (23) North Carolina State University
* E. Tavukcu
- (24) Northwestern University
R. Segel
- (25) Oak Ridge National Laboratory
ab C. Baktash
M. Halbert
N. Johnson
M. Lipoglavsek
a S. Paul
D. Radford
M. Smith
R. Varner
C. Yu
- (26) Ospedali Riuniti di Bergamo (Italy)
G. Poli
- (27) Purdue University
P. Bhattacharyya
* C. Constantinescu
P. Daly
Z. Grabowski
- (28) Purdue University, Calumet
T. Sienko
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