

RESUME

**DEPARTMENT OF PHYSICS AND ASTRONOMY
IOWA STATE UNIVERSITY**

November 2008

NAME Craig Ogilvie

TITLE Professor

**B BASE
GRAD. FACULTY - FULL**

PERSONAL HISTORY

Professor of Physics, Iowa State University, IA	2008 - present
Associate Professor of Physics, Iowa State University, IA	2003 - 2008
Assistant Professor of Physics, Iowa State University, IA	2000 - 2003
Assistant Professor of Physics, Massachusetts Institute of Technology, MA	1992 - 2000
Consultant, Unica Technologies, Lincoln, MA	2000
Research Scientist, GSI, Darmstadt, Germany	1990 - 1992
Research Scientist, Michigan State University, East Lansing, MI	1987 - 1990
Ph.D. University of Birmingham, England.	1987
B.Sc. (Honors, First Class), University of Canterbury, New Zealand.	1983

MEMBERSHIPS AND HONORS

American Physical Society

ACADEMIC LEADERSHIP

- Founder and convenor of problem-solving outcomes group, an informal community of people on campus who are involved in improving the problem-solving skills of our students. The idea is to gather people from different departments, colleges, student affairs, and students who are all working towards similar goals, but rarely have a chance to meet each other. The group members meet approximately once a month can to discuss current and future methods to develop problem-solving skills in our students.
- Faculty Advisory group for the Center for Excellence in Science, Math, and Engineering Education (CESMEE). In 2008 we restarted this Center at ISU and I am helping to lead new efforts to recruit students to train as STEM teachers, developing online support and mentoring programs for teachers who often feel isolated from peers, as well as helping to coordinate in-service training for STEM teachers.
- Faculty Council for the Alliance for Graduate Education and the Professoriate (AGEP) where I am helping to develop partnerships between colleagues at ISU and faculty at other universities with large minority enrollment to increase graduate opportunities for minority students in STEM fields.
- I am Deputy Project Manager for a major upgrade of a large-scale scientific experiment. The PHENIX experiment at Brookhaven National Laboratory is a collaboration of over 400 scientists from over 25 institutions worldwide. The experiment is being upgraded by adding a very precise tracking detector: the VTX upgrade. I am leading the US effort on this detector. The project is funded by US Department of Energy (DOE) and RIKEN from Japan and I have line responsibility for \$4.6M of DOE funds (FY07-10). The total budget of the project is \$9M. We are in full construction mode and the first stage of the detector will be installed in summer 2009.
- Large scientific experimenters (with several hundred scientists) are organized into sub-groups where scientists collaborate on specific topics of mutual interest. I was appointed convenor of the Hard/Photon Physics Working Group by the Spokesperson who is the leader of the experiment. As convenor, I have the responsibility of coordinating physics analyses across many university and laboratory groups world-wide, setting priorities, ensuring quality in the data analysis, and promoting the development and careers of young graduate students and post-docs. Approximately 40 physicists are active in this working group.

TEACHING RESPONSIBILITIES AND STUDENT EVALUATIONS

The average student evaluation scores given below are from the following question on the evaluation form, "Rate the overall effectiveness of the instructor as a teacher." On the instruction sheet accompanying the evaluation form, the students are asked to use a scale from (5) to (1), where 5=very high, 4=above average, 3=average, 2=below average, 1=very low. "Average" denotes the typical rating of comparable university courses and instructors.

Note: The number or letter in parentheses following the course number indicates a specific recitation or lab section. For Physics 106, 111, 112, 221 and 222 all numbered sections indicate Recitations and all lettered sections indicate Labs with the exception of the entries for 221 and 222 prior to the fall of 2004. Prior to Fall 2004, the 221 and 222 labs and recitations were combined in a single section number which appears twice. In this case, the first entry is for the recitation component and the second is for the laboratory component of the section.

Teaching Assignments Sem & Yr	Course	Approx. No. Students	Student Eval.	Avg. by Student All Courses (Rec/Lab)	Avg. by Student This Course (Rec/Lab)	Lecturer Average (Service Courses)	Advanced Course Average
Spring 08	Phys 222	351	4.3			3.5	
Spring 07	Phys 222	318	4.4			3.4	
Spring 06	Phys 222	317	4.5			3.5	
Fall 05	Research Leave						
Spring 05	Phys 222, calculus-based E/M	352	4.4			3.8	
Fall 04	Research leave						
Spring 04	Research leave						
Fall 03	Phys 222, calculus-based E/M	511	4.4			4.1	
Spring 03	Research leave						
Fall 02	Phys 222, calculus-based E/M	532	4.4			3.9	
Spring 02	Research leave						
Fall 01	Phys 222, calculus-based E/M	468	4.2			3.9	
Spring 01	Research leave						
Fall 00	Phys 222, calculus-based E/M labs	24	4.9	3.9	4.2		
Fall 00	Phys 222 Recitation	24	4.7	4.0	4.3		
Spring 00	8.01, calculus-based mechanics (MIT)	100	4.1	Not Available	Not Available		
Fall 99	8.01, calculus-based mechanics (MIT)	40	4.2	Not Available	Not Available		
Spring 99	8.01, calculus-based mechanics (MIT)	100	4.6	Not Available	Not Available		
Fall 98	8.712, graduate Nuclear Physics (MIT)	15	N/A	Not Available	Not Available		
Spring 98	8.02x, calculus-based E/M (MIT)	40	4.1	Not Available	Not Available		
Fall 97	8.07, advanced E/M(MIT)	20	4.2	Not Available	Not Available		
Spring 97	8.04, intro quantum mechanics (MIT)	20	4.4	Not Available	Not Available		
Fall 96	8.01x, calculus-based mechanics (MIT)	40	4.5	Not Available	Not Available		
Spring 96	8.02x, calculus-based E/M (MIT)	135	4.5	Not Available	Not Available		

PH.D. STUDENTS

- a) Iowa State University:
 - Lei Ding
 - Hua Pei (Ph.D. awarded 2008)
 - Warren Christensen (Ph.D. awarded 2007)
 - Nathan Grau, ISU (Ph.D. awarded 2005)
- b) MIT
 - James Dunlop (Ph.D. awarded 2000)
 - George Heintzleman (Ph.D. awarded 1999)
 - Larry Ahle (Ph.D. awarded 1998)

M.S. STUDENTS

Yanyi He

UNDERGRADUATE RESEARCH DIRECTED (ISU)

- 2008 Jeff Langemeier, Joe Kohlhass, Jasper Raven, David Hansen, Andrew Bergstrom, Joe Kohlhass, Nathan Abma, Michael, Eggleston, Alan Hulsebus
- 2007 Jasper Raven, David Hansen, Daniel Blackburn, Andrew Bergstrom, Joe Kohlhass
- 2006 Obi Ohima, Jasper Raven, David Hansen
- 2005 Obi Ohima, Mike Wesner, Keith Twombly, Jasper Raven, Adam Stone, Richard Livings
- 2004 Obi Ohima, Alex Wernli, Ankush Oberoi, Mike Wesner, Keith Twombly, Ali Mostrom, Harisudhakar Vepadharmalingam
- 2003 Obi Ohima, Ankush Oberoi, Venkatesh Selvaraj, John Day
- 2002 Beau Meredith, Ankush Oberoi, Milana Richardson
- 2001 Bob Gilliam, Rebecca Grundy, Greg Knoke
- 2000 Xiaoyun Tang, Jiang Sheng

GRADUATE STUDENT COMMITTEE MEMBERSHIP (ISU Non-Chairman)

PhD

- Andrew Nelson, current
- Bradley Peterson, current
- Shannon McLaughlin, current (Department of Education)
- Kim Arvidsson, current
- Xiapeng Zong, current
- Mohammed Al Shorman, 2008
- Piyamart Kumsaikaew (Department of Industrial Engineering) 2007
- Paul Constantin, 2004

Masters

- Michelle Hartwell, current
- Steve Skutnik, 2005
- Jonathon Crandall (Electrical Engineering) 2005
- Shelbi Hostler 2004
- Tris Tanadi (Electrical Engineering) 2003
- Ngoc-Loan Nguyen 2003

UNDERGRADUATE ADVISING

COMMENTS, MISCELLANEOUS

Faculty teaching mentor for

2008/09 Asst. Profs April Eisman, Gap-Yong Kim

2007/08 Asst. Profs Locke Karriker, Bing Yang

2006/07 Asst Profs Susan Arendt, Emily Godbey, Sara Gregg,

Mentor for Preparing Future Faculty, Larry Englehardt

Post-Doctoral Advisor for Alan Dion, Andrei Semenov, Jan Rak, Gunther Roland, Eleanor Judd,
Mark Baker

SERVICE**DEPARTMENTAL**

Date	Responsibility
2008	Task-force on Introductory Labs
2008	Astronomy search committee
2008	Chair classical qualifier committee
2006 – present	Committee to study 221/222 for majors
2006 – present	Long-range planning committee: Space/new building
2005	Chair classical qualifier committee
2004	Chair of reform committee for introductory physics
2003 – present	Faculty advisor Physics Club
2003	Chair of calculus-based physics textbook committee
2003	Graduate special qualifier committee
2002	Graduate modern qualifier committee
2002 – 2003	Bio-physics search committee
2001 – 2007	Colloquium committee
2001	Faculty hiring plan committee
2000 – 2005	Nuclear physics seminar organizer
2001	Search committee for neutron-scattering faculty
2001	Graduate classical qualifier committee

AMES LABORATORY**COLLEGE**

2006 – present First-year experience committee

UNIVERSITY

2008 Search committee for Director of Center for Excellence in Science, Math, and Engineering Education (CESMEE)

2008 – present Faculty Advisory Board, Center for Excellence in Science, Math, and Engineering Education (CESMEE)

2008 – present Faculty Council, Alliance for Graduate Education and the Professoriate (AGEP)

2007 – present Convener of university-wide outcomes group on problem-solving

2006 Member of Provost's taskforce to review faculty mentoring program

2006 – present Faculty advisor ISU cricket club

2004 Co-led "Teaching and Learning Circle" on Problem-Solving.

2004 Information Technology Focus Group for Teaching and Learning

2003 Board for Springbrook Teaching Retreat

2003 – present Faculty Advisor Adelante Fraternity

2002, 2003 Faculty Panel for APEX Academic Success Seminar

2001 – 2002 Provost Task Force on Scholarship of Teaching and Learning

PROFESSIONAL ACTIVITIES**SUMMARY OF PAPERS AND PUBLICATIONS**

Date	Refereed Publications in Print	Books/Chapters	Invited Papers/Talks	Contributed Papers	Extension Presentations on Teaching and Student Learning
2008	11	0	1	2	5
2007	17	1	1	2	3
2006	12	0	0	1	1
2005	12	0	0	0	4
2004	9	0	2	4	4
2003	8	0	0	0	1
2002	11	0	0	3	1
2001	6	0	3	1	
2000	4	0	0	3	
1999	9	0	1	4	
1998	11	0	3	7	
1997	1	0	4	3	
1996	4	0	2	3	
Pre 1996	56	0	Not available	Not available	
Total	164	1	17	35	18

CITATIONS

Via web-of-science as of 17 Nov 2008

Citation Publication Date	Times Cited	Excluding self-citations
2008	1206	362
2007	1388	635
2006	1203	563
2005	1187	418
2004	725	373
2003	537	292
2002	419	237
2001	200	117
2000	174	79
pre-2000	1231	625
Total, all years	8,270	3,701

h-index = 51.

h-index is the number of papers that have at least h citations. My h-index of 51 means that there are 51 papers that have 51 citations or more.

PAPERS AND PUBLICATIONS DETAILS

Refereed Publications in Print. See appended listing

Books, Chapters

1. Learning to Solve Complex Scientific Problems 2007, Ch. 7. *Moving students from simple to complex problem solving*. Ed David. H. Jonassen, published by Erlbaum press

Invited Papers, Talks. See appended listing

Contributed Papers. See appended listing

Other Publications

EDITORIAL ACTIVITIES

Referee for Physical Review Letters, Physics Letters B, Physical Review C, Journal of Nuclear Physics G, Department of Energy, and National Science Foundation

HONORS AND AWARDS

2008	J. H. Ellis Award for Excellence in Undergraduate Introductory Teaching, ISU
2007/08	LAS Master Teacher, ISU
2007	Miller Faculty Fellow, ISU
2007	Best paper award, American Society for Engineering Education.
2006	Miller Faculty Fellow, ISU
2006	Alverno Fellow, ISU
2002, 2003, 2004	Nominated Outstanding Faculty Teacher, Interfraternity Council, ISU
2002	Miller Faculty Fellow, ISU
2002	“Exceptional Student Support,” Student Scholars and Leaders Recognition, ISU
1997	James H. Ferry, Jr. Fund for Innovation in Research Education, MIT
1996	Buechner Prize for Teaching, Department of Physics, MIT
1993	State Street Grant for Partnership in Science, MIT
1983 - 1987	Commonwealth Scholar, U.K.

PROFESSIONAL INVOLVEMENT

2007 – present	Convenor of hard/photon physics working group, PHENIX
2004	Member of PHENIX White Paper Writing group on “Status of QGP @ RHIC”
2004	Chair of PHENIX paper on angular correlations in dAu
2003 – present	Deputy project manager silicon vertex detector group, PHENIX experiment
2001 – 2003	Convenor of silicon vertex detector group, PHENIX experiment at RHIC
2001 – 2003	Convenor of hadron physics working group, PHENIX
2001	Chairman of internal review committee for PHENIX paper on transverse energy
2001	Member of internal review committee for PHENIX paper on multiplicity
2001 – 2002	Science Judge for DOE Science Bowl
1996 – 2000	Convenor of spectra physics working group, STAR experiment at RHIC
1996 – 2000	Member of STAR Council, governing body of the STAR experiment

1998	Chairman of Forward-TPC review committee, STAR
1997	Chairman of software infrastructure committee, STAR
1996	Local organizing committee, Division of Nuclear Physics, APS
1993 – 2000	Member of technology advisory committee, Wayland School District

FUNDED PROPOSALS

a. External

2006

- NSF CCLI \$293,718, *Humanizing Science to Improve Post-Secondary Science Education*, M. Clough, C. Cervato, J. Colbert, J. Olson, M. Stanley, C. Ogilvie, C. Kerton, T. Greenbowe, D. Niday, B. Williams.
- DOE STTR Phase II, \$239,505 *Fast Real-time decision processor using an FGPGA array* with John Lajoie
- IPRT STTR Phase II, \$17,000, *Fast Real-time decision processor using an FGPGA array* with John Lajoie
- DOE, \$1,658,000 *Relativistic Heavy Ion Physics* P.I. John Hill, Co-P.I.s Marzia Rosati, John Lajoie, Craig Ogilvie, 11/15/06 to 11/14/09
- BNL R&D \$26,700 *Rad-hard FPGAs and Transceiver Card* with John Lajoie

2004

- HP Technology for Teaching Grant, *Increasing Feedback to Students During Discussion Sections* \$65,000
- BNL R&D \$20,000 *Development of Transceiver Daughter Card*, with John Lajoie

2003

- DOE *Relativistic Heavy Ion Physics* P.I. John Hill, Co-P.I.s Marzia Rosati, John Lajoie, Craig Ogilvie, \$1,710,000 11/15/03 to 11/14/06
- DOE STTR Phase I, \$30,000 *Fast, flexible real-time decision process for triggering nuclear/high-energy experiments and real-time analysis* with John Lajoie
- IPRT STTR Phase I, \$11,589 *Fast, flexible real-time decision process for triggering nuclear/high-energy experiments and real-time analysis.* with John Lajoie
- BNL R&D \$15,000 *Development of Pixel Detector Readout*, with John Lajoie

2000

- DOE *Relativistic Heavy Ion Physics* P.I. John Hill, Co-P.I.s Marzia Rosati, John Lajoie, Craig Ogilvie, \$2,006,000 11/15/00 to 11/14/03

b. Internal

2008

- CAC, \$65,651 *Dissemination of Online PSLP and Diagnostic Pathfinder to Increase Students' Problem-Solving Skills*, with Holly Bender, Peter Boysen, Jared Danielson, John Jackman, Barbara Krumhardt, Dale S. Niederhauser, Sarah Ryan, Allan Schmidt, Ann Marie VanDerZanden

2007

- Miller Faculty Fellow, 2007-08 \$25,000 with S. Ryan, J. Jackman, D. S. Niederhauser, B. Krumhardt, A. M. VanDerZanden

- CAC, \$66,162 Dissemination of Online Case Tool to Increase Students' Problem-Solving Skills, with S. Ryan, J. Jackman, D. S. Niederhauser, B. Krumhardt, A. M. VanDerZanden
 - LASCAC, \$2,962 Continuation proposal: Facilitating Group Problem-Solving with Dual Screens.
- 2006
- LASCAC, \$2,833 for Physics sentence interpretation: increasing feedback during online tutorials.
 - Miller Faculty Fellow, 2006-07 with S.M. Ryan, J.K. Jackman, D.S. Niederhauser, \$25,000 for Assessing Problem Solving Skill Development in Science and Engineering
- 2005
- CAC, \$69,333 for Online Environment for Multifaceted Problem Solving Development
 - LASCAC, \$5,500 Facilitating Group Problem-Solving with Dual Screens
- 2004
- LASCAC, \$14,713 Mathematica in Physics and Astronomy courses
- 2003
- LASCAC, \$25,000 for webCT physics questions database
 - LASCAC, \$15,000 for Personal Response System ("clickers")
- 2002
- LASCAC, \$2,000 for webCT physics questions database
 - Miller Faculty Fellow, \$25,000 for development of problem-solving skills in physics courses

Invited Papers, Talks

a. Invited Presentations at Major Conferences

- | | |
|-----------------|--|
| 2008, September | Erice School on Nuclear Physics: <i>Probing the Quark Gluon Plasma with Jets</i> |
| 2007, April | Deep-Inelastic Scattering 2007, Munich, <i>Hadronic final states and their correlations in pp and heavy ion collisions</i> |
| 2004, June | NSAC Review Committee on Heavy-Ion Physics, <i>PHENIX Silicon Vertex Upgrade</i> |
| 2004, March | 2 nd EIC Workshop, <i>Summary of Physics without Spin</i> |
| 2001, September | High-Pt Workshop at RHIC, <i>Angular Correlations</i> |
| 2001, June | Gordon Conference, <i>Review of Strangeness Physics</i> |
| 2001, January | Quark Matter 2001, <i>Review of AGS Physics</i> |
| 1999, September | Strangeness Workshop, Oberbnai, France, <i>Strangeness from 2 to 10 AGeV</i> |
| 1998, July | Strangeness '98, <i>Review of Strangeness From 1-10 AGeV</i> |
| 1998, July | AGS-RHIC Users Meeting, <i>Review of AGS Heavy-Ion Physics</i> |
| 1998, July | RHIC Summer School. <i>Review of SPS, AGS Physics</i> |
| 1997, December | Quark-Matter 97, Tsukuba, Japan, <i>Report on Experiments E866, E917</i> |
| 1997, October | Division of Nuclear Physics, Fall Meeting, <i>An Excitation Function at the AGS.</i> |
| 1997, June | Nucleus-Nucleus '97 Conference, <i>Kaon Production at the AGS</i> |
| 1997, April | Strangeness '97, Greece, <i>Review of Strangeness Production at the AGS</i> |
| 1996, August | HIPAGS '96, Detroit, <i>E917 Experiment</i> |
| 1996, July | Gordon Conference on Nuclear Chemistry, <i>Review of AGS Physics Program</i> |

b. Extension Presentations on Teaching and Student Learning

- 2008, September CELT Faculty Forum, *Three ISU Computer Tools to Improve Your Students' Problem-Solving Skills*
- 2008, April Provost Forum on Enhancing Rigor in the Undergraduate Curriculum, *Problem-Solving Skill Development at ISU*
- 2008, March Presentation to Sauer-Danfoss, Ames, *Problem-Solving Skill Development at ISU*
- 2008, March CELT Teaching Tips Forum, *Superseding prior exam scores*
- 2008, March LAS Master Teachers presentation, *Developing students' broader skills within large classes*
- 2007, September Convocation of National Society of Collegiate Scholars, Keynote speech, *Integrity*
- 2007, August University Teaching Seminar, ISU, *Critical thinking: improving these skills in our students*
- 2007, February Iowa State University, CELT Clicker Show-and-tell Faculty Forum, *ConceptTests During Lectures*
- 2006, August University Teaching Seminar, ISU, *Critical thinking: improving these skills in our students*
- 2005, August University Teaching Seminar, ISU, *Critical thinking: goals for our students*
- 2005, April CELT Faculty Forum, ISU, *Learning Power of Clickers*
- 2005, March WebCT Show and Tell, *Question Manager*
- 2005, February Large Lecture Teaching Series, ISU, *Challenging Students To Improve Their Problem-Solving Skills*
- 2004, August University Teaching Seminar, ISU, *Effective Lectures*
- 2004, August University Teaching Seminar, ISU, *Leading Labs and Recitations in Math and Science*
- 2004, April LAS Case Studies in Online Learning, *Feedback in Large Classes*
- 2004, Feb WebCT Show and Tell, *Online Assignments*
- 2003, October Iowa State University Teaching Tips Faculty Forum, *Small Whiteboards for Group Work*
- 2002, May Wakonse Conference on Higher Education, *Active Learning in Large Lectures*

b) Colloquia, Seminars and Conference Contributions

- 2009, February (scheduled) University of Minnesota, *Improving Students' Problem-Solving Skills and Beliefs*
- 2009, February (scheduled) University of Minnesota, *Jets as a Probe of the Quark-Gluon Plasma*
- 2008, April APS Spring Meeting, *Impact of Context-Rich, Multifaceted Problems on Student Attitudes Towards Problem-Solving*
- 2008, April APS Spring Meeting, *Constraining energy-loss model parameters using multiple high-pt observables at RHIC*
- 2007, October APS Symposium on Di-Jets and Correlations in heavy-ion Collisions, *Jet Correlations after an event-selection of two back-to-back, high-pt particles*
- 2007, March Iowa State University, College of Human Sciences, *Improving Students' Problem-Solving Skills and Beliefs*
- 2006, November Iowa State University, Physics Dept., *eRHIC: a physics case*

2004, October Iowa State University, Physics Dept. *Challenging Students to Improve Their Problem-Solving Skills*

2004, November Iowa State University, College of Education, *Challenging Students to Improve Their Problem-Solving Skills*

2004, April APS Symposium on QGP, *Jets in Heavy-Ion Collisions*

2004, April APS, *Developing Problem-solving using Context-rich problems*

2002, October Iowa State University, *10¹² Degrees in the Shade*

2002, April University of Northern Iowa University, Illinois University (Urbana Champaign), University of Iowa, *10¹² Degrees in the Shade*

2002, March Iowa State University, Dept. of Education, *Feedback's Influence On Student Learning in On-line Assignments*

2001, April APS for PHENIX Collaboration, *Angular Correlations at High-pt*

2001, Feb Iowa State University, *First Results from RHIC: Quark Matter Report*

2000, October DNP for PHENIX Collaboration, *Angular Correlations at High-pt*

2000, March-April Iowa State University, Lafayette College, *10¹² Degrees in the Shade*

1999, September University of Illinois, Chicago, *10¹² Degrees in the Shade*

1999, March-April Wayne State University, Los Alamos, Amherst College, *10¹² Degrees in the Shade*

1998, September MIT, *Quarks: Free at Last!?*

1998, August University of Auckland, NZ, *Dense Hadronic Matter*

1998, May University of California, Davis, GSI, Germany, CERN Switzerland, *Dense Hadronic Matter*

1998, April University of Rochester, *Dense Hadronic Matter*

1998, February SUNY, Stony Brook, *Dense Hadronic Matter*

1997, October Brookhaven National Laboratory, *Dense Hadronic Matter*

1997, September Argonne National Laboratory, *Dense Hadronic Matter*

1997, February Winter Workshop on Nuclear Physics, *Kaon Production and the QGP*

1996, July Texas A&M, *Searching for the QGP at AGS*

1996 April Wayne State University, *Searching for the QGP at AGS*

1996, March MIT, *Quarks on Furlough*

Papers in Refereed Journals

1. “Inclusive cross section and double helicity asymmetry for π^0 production in p+p collisions at $\sqrt{s} = 62.4$ GeV” PHENIX Collaboration: A. Adare, et al [arXiv:0810.0701v1](#)
2. “The gluon spin contribution to the proton spin from the double helicity asymmetry in inclusive π^0 production in polarized p+p collisions at $\sqrt{s}=200$ GeV” PHENIX Collaboration: A. Adare, et al [arXiv:0810.0694v1](#)
3. “Impact of Context-Rich, Multifaceted Problems on Students' Attitudes Towards Problem-Solving” C.A. Ogilvie, [arXiv:0809.1081v1](#) submitted to Physical Review Special Topics - Physics Education Research
4. “Student ideas regarding entropy and the second law of thermodynamics in an introductory physics course”, Warren M. Christensen, David E. Meltzer, C. A. Ogilvie, Mar 2008, submitted to Physical Review Special Topics - Physics Education Research
5. “Enhanced production of direct photons in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV” PHENIX Collaboration: A. Adare, et al. [arXiv:0804.4168v1](#)
6. “Enhancement of the dielectron continuum in $s(NN)^{1/2} = 200$ -GeV Au+Au collisions” By PHENIX Collaboration (S. Afanasiev *et al.*) nucl-ex/0706.3034
7. “Understanding Student Pathways in Context-rich Problems”, Pavlo D. Antonenko, John Jackman, Piyamart Kumsaikaew, Rahul R. Marathe, Dale S. Niederhauser, C. A. Ogilvie, Sarah M. Ryan, physics/0701284
8. “Dilepton mass spectra in p+p collisions at $s^{1/2} = 200$ -GeV and the contribution from open charm”. By PHENIX Collaboration (A. Adare et al.). Accepted for publication Phys.Rev.Lett. e-Print: [arXiv:0802.0050](#) [hep-ex]
9. “Suppression pattern of neutral pions at high transverse momentum in Au + Au collisions at $s(NN)^{1/2} = 200$ -GeV and constraints on medium transport coefficients.” PHENIX Collaboration (A. Adare et al.). Jan 2008. Accepted for publication Phys.Rev.Lett. e-Print: [arXiv:0801.4020](#) [nucl-ex]
10. “Onset of π^0 Suppression Studied in Cu+Cu Collisions at $\sqrt{s_{sub NN}}=22.4, 62.4,$ and 200”. By PHENIX Collaboration (A. Adare et al.). Phys. Rev. Lett. **101**, 162301 (2008)
11. Charged hadron multiplicity fluctuations in Au+Au and Cu+Cu collisions from $\sqrt{s_{NN}}=22.5$ to 200 GeV By PHENIX Collaboration (A. Adare et al.) Phys. Rev. C **78**, 044902 (2008)
12. J/psi Production in $\sqrt{s_{NN}}= 200$ GeV Cu+Cu Collisions, By PHENIX Collaboration (A. Adare et al.) Phys. Rev. Lett. **101**, 122301 (2008)
13. “Particle-species dependent modification of jet-induced correlations in Au+Au collisions at $s(NN)^{1/2} = 200$ -GeV.” By PHENIX Collaboration (S. Afanasiev et al.) Phys. Rev. Lett. **101**, 082301 (2008)
14. “Dihadron azimuthal correlations in Au+Au collisions at $s(NN)^{1/2} = 200$ -GeV.” By PHENIX Collaboration (A. Adare et al.). Phys. Rev. C **78**, 014901 (2008)
15. “Quantitative Constraints on the Opacity of Hot Partonic Matter from Semi-Inclusive Single High Transverse Momentum Pion Suppression in Au+Au collisions at $s(NN)^{1/2} = 200$ -GeV”. A. Adare et al. Phys. Rev. C **77**, 064907 (2008)

16. "Source breakup dynamics in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ -GeV via three-dimensional two-pion source imaging." By PHENIX Collaboration (S. Afanasiev et al.) Phys. Rev. Lett. **100**, 232301 (2008)
17. Cold nuclear matter effects on J/psi production as constrained by deuteron-gold measurements at $\sqrt{s_{NN}} = 200$ GeV, By PHENIX Collaboration (A. Adare et al.) Phys. Rev. C **77**, 024912 (2008)
18. Transverse momentum and centrality dependence of dihadron correlations in Au+Au collisions at $\sqrt{s_{NN}} = 200$ -GeV: Jet-quenching and the response of partonic matter. By PHENIX Collaboration (A. Adare et al.) Phys.Rev.C77:011901, 2008.
19. Centrality dependence of charged hadron production in deuteron + gold and nucleon + gold collisions at $\sqrt{s_{NN}} = 200$ -GeV. By PHENIX Collaboration (S.S. Adler et al.) Phys.Rev.C77:014905, 2008.
20. "Swivel-seating in Large Lecture Theaters and its Impact on Student Discussions and Learning", C.A. Ogilvie, Journal of College Science Teaching, 37(3) 2008.
21. "Measurement of Single Muons at Forward Rapidity in p+p Collisions at $\sqrt{s} = 200$ GeV and Implications for Charm Production" By PHENIX Collaboration (S.S. Adler et al.). Phys.Rev.D76:092002,2007
22. "A Detailed Study of High-pT Neutral Pion Suppression and Azimuthal Anisotropy in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV" By PHENIX Collaboration (S.S. Adler et al.). By PHENIX Collaboration (S.S. Adler et al.). Phys.Rev.C76:034904,2007
23. "Elliptic flow for phi mesons and (anti)deuterons in Au + Au collisions at $\sqrt{s_{NN}} = 200$ -GeV." By PHENIX Collaboration (S. Afanasiev et al.). Phys. Rev. Lett. 99:052301, 2007
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