

CURRICULUM VITAE

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Education:

March 1994 Ph.D. Physics, University of Chicago

Research Experience:

1997 – Assistant Professor of Physics, Washington University
1993 – 1997 Postdoctoral Research Associate, Harvard–Smithsonian Center for Astrophysics.
1987 – 1993 Research Assistantship, University of Chicago, Dept. of Physics.

Honors and Awards:

1998 Department of Energy, Outstanding Junior Investigator Award
1997 The Shakti Duggal Award - 25th International Cosmic Ray Conference
1996 Smithsonian Institution Special Achievement Award
1989 – 1992 NASA Graduate Student Researchers Program grant.

Research Interests and Selected Publications:

Dark Matter Detection:

- “Observability of gamma rays from dark matter neutralino annihilations in the Milky Way halo”, L. Bergström, L., P. Ullio, and J.H. Buckley, *Astroparticle Physics*, **9**, 137 (1998)
- “Gamma Rays from Neutralino Annihilation: Prospects for ACT Detection”, J.H. Buckley and G. Jungman, in *Proceedings of the Workshop: “Towards a Major Atmospheric Cherenkov Detector-IV”*, ed. M. Cresti, (Padova; Univ. of Padova 1995), 26 (1995)

Gamma-Ray Observations of Active Galaxies:

- “Observations of Blazars with the Whipple Observatory Gamma-Ray Telescope”, J.H. Buckley, *Astroparticle Physics*, **11**, 119 (1999)
- “Limits to Quantum Gravity Effects from Observations of TeV Flares in Active Galaxies”, with Biller, S. D., et al., *Physical Review Letters*, **83**, 2108B (1999)
- “What the Wild Things Are”, J.H. Buckley, *Science*, **279**, 676 (1998)
- “Multiwavelength Observations of a Flare from Markarian 501”, with Catanese, M., et al., *ApJ*, **487**, L143 (1997)
- “Extremely Rapid Bursts of TeV Photons from the Active Galaxy Markarian 421”, with J.A. Gaidos, et al., *Nature*, **383**, 26 (1996)
- “Gamma-Ray Variability of the BL Lacertae Object Markarian 421”, J.H. Buckley, et al., *Astrophysical Journal*, **472**, L9 (1996)

Origin of Cosmic Rays

- “Constraints on cosmic-ray origin from TeV gamma-ray observations of supernova remnants”, J.H. Buckley, et al., *Astronomy and Astrophysics*, **329**, 639 (1998)

James H. Buckley
Publications in Refereed Journals

1. “Gamma-Ray Observations of the Galactic Plane at Energies $E > 500$ GeV”, LeBohec, S.; Bond, I. H.; Bradbury, S. M.; Buckley, J. H.; Burdett, A. M.; Carter-Lewis, D. A.; Catanese, M.; Cawley, M. F.; Dunlea, S.; D’Vali, M.; Fegan, D. J.; Fegan, S. J.; Finley, J. P.; Gaidos, J. A.; Hall, T. A.; Hillas, A. M.; Horan, D.; Knapp, J.; Krennrich, F.; Lessard, R. W.; Macomb, D.; Masterson, C.; Quinn, J.; Rose, H. J.; Samuelson, F. W.; Sembroski, G. H.; Vassiliev, V. V.; Weekes, T. C., *Astrophysical Journal*, **539**, 209 (2000).
2. “Methods of Atmospheric Cherenkov Imaging for Gamma-Ray Astronomy: TeV Gamma-Ray Imaging”, Lessard, R.W., Buckley, J.H., Connaughton, V., and LeBohec, S., *Astroparticle Physics*, (in press)
3. “Search for Pulsed TeV Gamma-Ray Emission from the Crab Pulsar”, Lessard, R. W.; Bond, I. H.; Bradbury, S. M.; Buckley, J. H.; Burdett, A. M.; Carter-Lewis, D. A.; Catanese, M.; Cawley, M. F.; D’Vali, M.; Fegan, D. J.; Finley, J. P.; Gaidos, J. A.; Gillanders, G. H.; Hall, T.; Hillas, A. M.; Krennrich, F.; Lang, M. J.; Masterson, C.; Moriarty, P.; Quinn, J.; Rose, H. J.; Samuelson, F. W.; Sembroski, G. H.; Srinivasan, R.; Vassiliev, V. V.; Weekes, T. C., *Astrophysical Journal*, **531**, 942 (2000).
4. “Simultaneous X-Ray and TeV Observations of a Rapid Flare from Markarian 421”, Maraschi, L.; Fossati, G.; Tavecchio, F.; Chiappetti, L.; Celotti, A.; Ghisellini, G.; Grandi, P.; Pian, E.; Tagliaferri, G.; Treves, A.; Breslin, A. C.; Buckley, J. H.; Carter-Lewis, D. A.; Catanese, M.; Cawley, M. F.; Fegan, D. J.; Fegan, S.; Finley, J.; Gaidos, J.; Hall, T.; Hillas, A. M.; Krennrich, F.; Lessard, R. W.; Masterson, C.; Moriarty, P.; Quinn, J.; Rose, J.; Samuelson, F.; Weekes, T. C.; Urry, C. M.; Takahashi, T., *Astrophysical Journals*, **526**, 81 (1999)
5. “The Flux Variability of Markarian 501 in Very High Energy Gamma Rays”, Quinn, J.; Bond, I. H.; Boyle, P. J.; Bradbury, S. M.; Breslin, A. C.; Buckley, J. H.; Burdett, A. M.; Gordo, J. Bussons; Carter-Lewis, D. A.; Catanese, M.; Cawley, M. F.; Fegan, D. J.; Finley, J. P.; Gaidos, J. A.; Hall, T.; Hillas, A. M.; Krennrich, F.; Lamb, R. C.; Lessard, R. W.; Masterson, C.; McEnery, J. E.; Moriarty, P.; Rodgers, A. J.; Rose, H. J.; Samuelson, F. W.; Sembroski, G. H.; Srinivasan, R.; Vassiliev, V. V.; Weekes, T. C., *ApJ*, **518**, 693 (1999).
6. “Correlated Variability of Mkn 421 at X-Ray and TeV Wavelengths on Time Scales of Hours”, Maraschi, L.; Fossati, G.; Tavecchio, F.; Chiappetti, L.; Celotti, A.; Ghisellini, G.; Grandi, P.; Pian, E.; Tagliaferri, G.; Treves, A.; Breslin, A. C.; Buckley, J. H.; Carter-Lewis, D. A.; Catanese, M.; Cawley, M. F.; Fegan, D. J.; Fegan, S.; Finley, J.; Gaidos, J.; Hall, T.; Hillas, A. M.; Krennrich, F.; Lessard, R. W.; Masterson, C.; Moriarty, P.; Quinn, J.; Rose, J.; Samuelson, F.; Weekes, T. C., *Astroparticle Physics*, **11**, 189 (1999)
7. “Measurement of the Multi-TeV Gamma-Ray Flare Spectra of Markarian 421 and Markarian 501”, Krennrich, F.; Biller, S. D.; Bond, I. H.; Boyle, P. J.; Bradbury, S. M.; Breslin, A. C.; Buckley, J. H.; Burdett, A. M.; Gordo, J. Bussons; Carter-Lewis,

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8. “Observations of Blazars with the Whipple Observatory Gamma-Ray Telescope”, J.H. Buckley, *Astroparticle Physics*, **11**, 119 (1999)
 9. “Limits to Quantum Gravity Effects from Observations of TeV Flares in Active Galaxies”, Biller, S. D.; Breslin, A. C.; Buckley, J.; Catanese, M.; Carson, M.; Carter-Lewis, D. A.; Cawley, M. F.; Fegan, D. J.; Finley, J. P.; Gaidos, J. A.; Hillas, A. M.; Krennrich, F.; Lamb, R. C.; Lessard, R.; Masterson, C.; McEnery, J. E.; McKernan, B.; Moriarty, P.; Quinn, J.; Rose, H. J.; Samuelson, F.; Sembroski, G.; Skelton, P.; Weekes, T. C., *Physical Review Letters*, **83**, 2108B (1999)
 10. “A Search for TeV Emission from AE Aquarii”, Lang, M. J.; Buckley, J. H.; Carter-Lewis, D. A.; Catanese, M.; Cawley, M. F.; Colombo, E.; Connaughton, V.; Fegan, D. J.; Finley, J. P.; Gaidos, J. A.; Gillanders, G. H.; Hillas, A. M.; Kertzman, M. P.; Krennrich, F.; Lessard, R. W.; Moriarty, P.; Quinn, J.; Rose, H. J.; Sembroski, G.; Weekes, T. C., *Astroparticle Physics*, **9**, 203 (1998)
 11. “The Spectrum of TeV Gamma Rays from the Crab Nebula”, Hillas, A. M.; Akerlof, C. W.; Biller, S. D.; Buckley, J. H.; Carter-Lewis, D. A.; Catanese, M.; Cawley, M. F.; Fegan, D. J.; Finley, J. P.; Gaidos, J. A.; Krennrich, F.; Lamb, R. C.; Lang, M. J.; Mohanty, G.; Punch, M.; Reynolds, P. T.; Rodgers, A. J.; Rose, H. J.; Rovero, A. C.; Schubnell, M. S.; Sembroski, G. H.; Vacanti, G.; Weekes, T. C.; West, M.; Zweerink, J., *ApJ*, **503**, 744 (1998)
 12. “Observability of gamma rays from dark matter neutralino annihilations in the Milky Way halo”, L. Bergström, L., P. Ullio, and J.H. Buckley, *Astroparticle Physics*, **9**, 137 (1998)
 13. “Discovery of Gamma-Ray Emission above 350 GeV from the BL Lacertae Object 1ES 2344+514”, Catanese, M.; Akerlof, C. W.; Badran, H. M.; Biller, S. D.; Bond, I. H.; Boyle, P. J.; Bradbury, S. M.; Buckley, J. H.; Burdett, A. M.; Bussons Gordo, J.; Carter-Lewis, D. A.; Cawley, M. F.; Connaughton, V.; Fegan, D. J.; Finley, J. P.; Gaidos, J. A.; Hall, T.; Hillas, A. M.; Krennrich, F.; Lamb, R. C.; Lessard, R. W.; Masterson, C.; McEnery, J. E.; Mohanty, G.; Quinn, J.; Rodgers, A. J.; Rose, H. J.; Samuelson, F. W.; Schubnell, M. S.; Sembroski, G. H.; Srinivasan, R.; Weekes, T. C.; Wilson, C. W.; Zweerink, J., 1998, *ApJ*, 501, 616
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 15. “Stereoscopic observations of gamma rays at the Whipple observatory”, Krennrich, F.; Akerlof, C. W.; Buckley, J. H.; Bussns-Gordo, J.; Carter-Lewis, D. A.; Cawley, M. F.;

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16. “A search for TeV gamma-ray bursts on a 1-second time-scale”, Connaughton, V.; Akerlof, C. W.; Biller, S.; Boyle, P.; Buckley, J.; Carter-Lewis, D. A.; Catanese, M.; Cawley, M. F.; Fegan, D. J.; Finley, J.; Gaidos, J.; Hillas, A. M.; Lamb, R. C.; Lessard, R.; McEnery, J.; Mohanty, G.; Porter, N. A.; Quinn, J.; Rose, H. J.; Schubnell, M. S.; Sembroski, G.; Srinivasan, R.; Weekes, T. C.; Wilson, C.; Zweerink, J., *Astroparticle Physics*, **8**, 179 (1998)
 17. “What the Wild Things Are”, J.H. Buckley, *Science*, **279**, 676 (1998)
 18. “Constraints on cosmic-ray origin from TeV gamma-ray observations of supernova remnants”, Buckley, J.H.; Akerlof, C. W.; Carter-Lewis, D. A.; Catanese, M.; Cawley, M. F.; Connaughton, V.; Fegan, D. J.; Finley, J. P.; Gaidos, J. A.; Hillas, A. M.; Krennrich, F.; Lamb, R. C.; Lessard, R. W.; McEnery, J. E.; Mohanty, G.; Quinn, J.; Rodgers, A. J.; Rose, H. J.; Rovero, A. C.; Schubnell, M. S.; Sembroski, G.; Srinivasan, R.; Weekes, T. C.; Zweerink, J., *Astronomy and Astrophysics*, **329**, 639 (1998)
 19. “Gamma-ray variability of BL lacs at $E > 300$ GeV”, Buckley, J. H.; Akerlof, C. W.; Biller, S.; Boyle, P. J.; Breslin, A. C.; Carter-Lewis, D. A.; Catanese, M.; Cawley, M. F.; Connaughton, V.; Fegan, D. J.; Finley, J. P.; Gaidos, J.; Gordo, J. Bussons; Hillas, A. M.; Krennrich, F.; Lamb, R. C.; Lessard, R.; Masterson, C.; McEnery, J. E.; Mohanty, G.; Moriarty, P.; Quinn, J.; Rodgers, A. J.; Rose, H. J.; Samuelson, F.; Schubnell, M. S.; Sembroski, G.; Srinivasan, R.; Weekes, T. C.; Wilson, C.; Zweerink, J., 1998, *Advances in Space Research*, **21**, 101 (1998)
 20. “New Limits to the Infrared Background: Bounds on Radiative Neutrino Decay and on Contributions of Very Massive Objects to the Dark Matter Problem”, S.D. Biller, J. Buckley, A. Burdett, J. Bussons Gordo, D. A. Carter-Lewis, D.J. Fegan, J. Finley, J.A. Gaidos, A.M. Hillas, F. Krennrich, R.C. Lamb, R. Lessard, J.E. McEnery, G. Mohanty, J. Quinn, A.J. Rodgers, H.J. Rose, F. Samuelson, G. Sembroski, P. Skelton, T.C. Weekes, and J. Zweerink, *Physical Review Letters*, **80**, 2992 (1998)
 21. “The TeV Gamma-Ray Spectrum of Markarian 421 during an Intense Flare”, Zweerink, J. A.; Akerlof, C. W.; Biller, S. D.; Boyle, P.; Buckley, J. H.; Burdett, A.; Bussons Gordo, J.; Carter-Lewis, D. A.; Catanese, M.; Cawley, M. F.; Fegan, D. J.; Finley, J. P.; Gaidos, J. A.; Hillas, A. M.; Krennrich, F.; Lamb, R. C.; Lessard, R. W.; McEnery, J. E.; Mohanty, G.; Quinn, J.; Rodgers, A. J.; Rose, H. J.; Samuelson, F. W.; Schubnell, M. S.; Sembroski, G.; Srinivasan, R.; Weekes, T. C.; Wilson, C., *ApJ*, **490**, 141 (1997)
 22. “Constraints on Cosmic-Ray Origin from TeV Gamma-Ray Observations of Supernova Remnants”, Lessard, R. W.; Boyle, P. J.; Bradbury, S. M.; Buckley, J. H.; Burdett, A. C.; Gordo, J. Bussons; Carter-Lewis, D. A.; Catanese, M.; Cawley, M. F.; Fegan, D. J.; Finley, J. P.; Gaidos, J. A.; Hillas, A. M.; Krennrich, F.; Lamb, R. C.; Masterson, C.; McEnery, J. E.; Mohanty, G.; Quinn, J.; Rodgers, A. J.; Rose, H. J.; Samuelson, F. W.; Sembroski, G.; Srinivasan, R.; Weekes, T. C.; 1997, in *Proceedings of the Fourth Compton Symposium*, Eds. C.D. Dermer, M.S. Strickman and J.D. Kurfess, Williamsburg, VA April 1997: AIP Conference Proceedings **410**, 1142 (1997)

23. “Multiwavelength Observations of a Flare from Markarian 501” Catanese, M.; Boyle, P. J.; Bradbury, S. M.; Buckley, J. H.; Burdett, A. C.; Gordo, J. Bussons; Carter-Lewis, D. A.; Cawley, M. F.; Fegan, D. J.; Finley, J. P.; Gaidos, J. A.; Hillas, A. M.; Krennich, F.; Lamb, R. C.; Lessard, R. W.; Masterson, C.; McEnery, J. E.; Mohanty, G.; Quinn, J.; Rodgers, A. J.; Rose, H. J.; Samuelson, F. W.; Sembroski, G.; Srinivasan, R.; Weekes, T. C.; Zweerink, J., 1997, in Proceedings of the Fourth Compton Symposium, Eds. C.D. Dermer, M.S. Strickman and J.D. Kurfess, Williamsburg, VA April 1997: AIP Conference Proceedings **410**, 1402 (1997)
24. “Multiwavelength Observations of Markarian 421” Buckley, J.H.; Boyle, P. J.; Bradbury, S. M.; Burdett, A. C.; Catanese, M.; Gordo, J. Bussons; Carter-Lewis, D. A.; Cawley, M. F.; Fegan, D. J.; Finley, J. P.; Gaidos, J. A.; Hillas, A. M.; Krennich, F.; Lamb, R. C.; Lessard, R. W.; Masterson, C.; McEnery, J. E.; Mohanty, G.; Quinn, J.; Rodgers, A. J.; Rose, H. J.; Samuelson, F. W.; Sembroski, G.; Srinivasan, R.; Weekes, T. C.; Zweerink, J., 1997, in Proceedings of the Fourth Compton Symposium, Eds. C.D. Dermer, M.S. Strickman and J.D. Kurfess, Williamsburg, VA April 1997: AIP Conference Proceedings **410**, 1381 (1997)
25. “Whipple Observations of BL Lac Objects at $E \geq 300$ GeV” Catanese, M.; Boyle, P. J.; Bradbury, S. M.; Buckley, J. H.; Burdett, A. C.; Gordo, J. Bussons; Carter-Lewis, D. A.; Cawley, M. F.; Fegan, D. J.; Finley, J. P.; Gaidos, J. A.; Hillas, A. M.; Krennich, F.; Lamb, R. C.; Lessard, R. W.; Masterson, C.; McEnery, J. E.; Mohanty, G.; Quinn, J.; Rodgers, A. J.; Rose, H. J.; Samuelson, F. W.; Sembroski, G.; Srinivasan, R.; Weekes, T. C.; Zweerink, J., 1997, in Proceedings of the Fourth Compton Symposium, Eds. C.D. Dermer, M.S. Strickman and J.D. Kurfess, Williamsburg, VA April 1997: AIP Conference Proceedings **410**, 1376 (1997)
26. “Very High Energy Observations of PSR B1951+32” Srinivasan, R.; Boyle, P. J.; Bradbury, S. M.; Buckley, J. H.; Burdett, A. C.; Catanese, M.; Gordo, J. Bussons; Carter-Lewis, D. A.; Cawley, M. F.; Fegan, D. J.; Finley, J. P.; Gaidos, J. A.; Hillas, A. M.; Krennich, F.; Lamb, R. C.; Lessard, R. W.; Masterson, C.; McEnery, J. E.; Mohanty, G.; Quinn, J.; Rodgers, A. J.; Rose, H. J.; Samuelson, F. W.; Sembroski, G.; Weekes, T. C.; Zweerink, J., 1997, in Proceedings of the Fourth Compton Symposium, Eds. C.D. Dermer, M.S. Strickman and J.D. Kurfess, Williamsburg, VA April 1997: AIP Conference Proceedings **410**, 592 (1997)
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James H. Buckley
Invited Talks and Papers

1. *TeV Gamma-Rays Astronomy*, University of Chicago Physics Colloquium, Chicago, September 28, 2000.
2. *TeV Gamma-Rays Astronomy*, University of California San Diego Astrophysics Seminar, La Jolla, May 2, 2000.
3. *TeV Gamma Rays and Cosmic-Ray Acceleration in Supernova Remnants*, APS Meeting Invited Talk, Long Beach, April 18, 2000.
4. *TeV Gamma-Rays Astronomy*, University of Illinois at Urbana-Champaign Astronomy Department Colloquium, February 15, 2000.
5. *High Energy Gamma-Rays from Dark Matter Annihilation*, invited talk presented at the HESS Workshop, Ringberg Castle, Germany, December 1999.
6. *High Energy Astrophysics*, invited popular lecture at the “Puzzles at the Frontiers of Physics”, Saturday lecture series, Washington University, October 9, 1999.
7. *Gamma-Ray Astronomy*, rapporteur talk and review paper at the 26th International Cosmic Ray Conference, Salt Lake City, August 25 1999
8. *Optical Monitoring of Gamma-Ray Transients*, Space Sciences Seminar, Washington University, November 13, 1998
9. *Observations of Blazars with the Whipple Observatory Gamma-Ray Telescope*, opening talk and review paper at the workshop “TeV Astrophysics of Extragalactic Sources”, Harvard Smithsonian Center for Astrophysics, October 23 1998.
10. *TeV Gamma Rays and Cosmic-Ray Acceleration in Supernova Remnants*, APS Meeting invited talk, Columbus. April 1998
11. *TeV Gamma-Rays from AGNs and SNRs*, Duggal Award Colloquium at Bartol Research Institute Colloquium, Newark, October 15, 1997
12. *The VERITAS Project*, invited talk the MPI workshop “Gamma-Ray Astronomy with Systems of Cherenkov Telescopes”, Ringberg Castle, Germany, September 30, 1997
13. Penn State University, Department of Physics Seminar, State College, March, 1997
14. Washington University, Space Sciences Seminar, St. Louis, March, 1997
15. Southern University, Physics Department Seminar, Baton Rouge, March 5, 1997
16. Louisiana State University, Department of Astronomy and Physics Colloquium, Baton Rouge, March 3, 1997
17. Iowa State University Department of Physics and Astronomy Colloquium, Ames, February 27, 1997

18. *TeV Gamma-Rays from AGNs, SNRs, and Dark Matter* Brown University Physics Colloquium, Providence, February 25, 1997
19. *TeV Gamma-Ray Astronomy*, Harvard-Smithsonian Center for Astrophysics Colloquium, January 30, 1997.
20. *Atmospheric Čerenkov Detectors: The High Energy Connection*, “Exploring the Astrophysics of Extremes: Workshop on the Next Generation High-Energy Gamma-Ray Telescope”, Goddard Space Flight Center, September 4, 1996.
21. *Gamma-Ray Observations of Blazars at $E > 300$ GeV with the Whipple 10m Air Čerenkov Telescope*, Stanford Linear Accelerator Center (SLAC) Seminar, Palo Alto, June 13, 1996.
22. *TeV Gamma Rays from SNRs and the Origin of Cosmic Rays*, Washington University Space Science Seminar, St. Louis, March 1, 1996.
23. *TeV Gamma-Ray Astronomy*, Washington University Physics Colloquium, St. Louis, February 29, 1996.
24. *Gamma-Ray Variability of BL Lacs at $E > 300$ GeV*, Harvard-Smithsonian Center for Astrophysics High Energy Division talk, Cambridge, February 14, 1996
25. *TeV Gamma-Ray Observations of Supernova Remnants*, Harvard-Smithsonian Center for Astrophysics seminar, Cambridge, February 12, 1996.
26. *TeV Gamma Rays and the Origin of Cosmic Rays*, University of Chicago Astrophysics Seminar, Chicago, February 7, 1996.