

Richard T. Jones, Associate Professor of Physics
University of Connecticut
Curriculum Vitæ

Updated: June 16, 2008

Birthdate: Dec. 17, 1959
Birthplace: Sandy Point, Nova Scotia, Canada
Citizenship: Canadian, permanent U.S. resident

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Education:

Bob Jones University, Greenville, S.C.	Physics	B. Sc.	1981
Virginia Polytechnic Institute, Blacksburg VA	Physics	Ph. D.	1988
University of Illinois, Urbana IL	Nuclear Physics	postdoc	1988-1990

Appointments:

Scientific Associate, CERN, Geneva, Switzerland	1990-1992
Research Staff, CERN, Geneva, Switzerland	1992-1996
Assistant Professor, Department of Physics, University of Connecticut	1996-2002
Associate Professor, Department of Physics, University of Connecticut	2002-

Professional Societies:
member, American Physical Society

Honours and Distinctions:

graduated Summa Cum Laude with B.Sc.	1981
received a NATO grant for collaboration with University of Geissen	1985
received Cunningham dissertation fellowship	1986

Visiting professorships:
I.N.F.N. visiting professor, University of Genova, Italy 4/1996-7/1996

Field of research specialization:
Experimental Nuclear/Particle Physics

Students supervised on research projects:

High school students:	UConn Mentor Connection program	8
	Jefferson Lab summer projects	2
Undergraduate students:	NSF REU program	3
	UConn Honors program	2
	Independent study for credit	3
	Jefferson Lab summer projects	5
	Summer internships	2
	Research study abroad	1

Graduate students:	Jefferson Lab summer projects	5
	Computational physics projects	2
	Nuclear physics data analyses	2

Works produced by students:

1. "Influence of spatial symmetry on the dynamics of strong-field ionizations", C. Guo, R.T. Jones G.N. Gibson, **Phys. Rev. A**62 Brief Reports (2000) 15402.
2. "Setting the Gain in the BSD Counters", M. Kornicer, *Radphi Technical Note 2000-901* (October 2000) 1.
3. "An estimate of Phi and Omega yields from the 2000 run", M. Kornicer, *Radphi Technical Note 2001-302* (March 2001) 1.
4. "Monte Carlo study of background from B₁ reactions", M. Kornicer and R.T. Jones, *Radphi Technical Note 2001-711* (November 2001) 1.
5. "The Analysis of the Background in the Radphi Experiment", E. Ackad (REU 2001) poster presented at 37th Canadian Undergraduate Physics Conference, Winnipeg, November 8-10, 2001.
6. "Diamond Quality Assessment with Synchrotron Light", B. Evans, poster presented at Forum on Undergraduate Research exhibition, University of Connecticut Honors program, April 12-13, 2002.
7. "Monte Carlo study of the shower shape in the LGD", M. Kornicer and R.T. Jones, *Radphi Technical Note 2002-601* (June 2002) 1.
8. "Rate Estimates for Hall D", C. Gauthier and R.T. Jones, *Hall D Internal Note 60*, Mar 15, 2003.
9. "LGD shower resolution", M. Kornicer and R.T. Jones, *Radphi Technical Note 2003-701*, Jul. 28, 2003.
10. "Simulation of a Position-Sensitive Tungsten Pin-Cushion Detector for GlueX", C. Gauthier and R.T. Jones, *Hall D Internal Note 67*, Oct. 7, 2003.
11. "Differential cross section for ω photoproduction measured in the Radphi experiment", M. Kornicer and R.T. Jones, *Radphi Technical Note 2004-301*, Mar. 1, 2004.
12. "The Selection and Performance of Diamond Radiators used in Coherent Bremsstrahlung Experiments", J.D. Kellie, P.J.M. Clive, G.L. Yang, R. Beck, B.C. Evans, C. Gordon, C. Hall, J.W. Harris, R.T. Jones, D. Laundry, K. Livingston, I.J.D. MacGregor, J.C. McGeorge, J. Malone, A. Schmidt, P.A. Slaven, R.M. Vrcelj, and D. Watts, *Nucl.Instr.Meth. A*545 (2005) 164.
13. "Photons", O. Gubor and K. Oghayore, talk presented at UConn Mentor Connection capstone event, University of Connecticut, July 28-29, 2005.
14. "Bench Tests of the Prototype Photon Beam Active Collimator for GlueX", I. Senderovich and R.T. Jones, *GlueX-doc-677*, August 1, 2006.
15. "Construction of a Test Stand for Evaluation of Silicon Photomultiplier Devices", I. Senderovich and R.T. Jones, *GlueX-doc-690*, October 5, 2006.
16. "Evaluation of Sample Silicon Photomultiplier Devices", I. Senderovich and R.T. Jones, *GlueX-doc-733*, December 5, 2006.
17. "Photon Detectors", poster entered by J. Zhao in the Connecticut Science Challenge sponsored by the Intel Science Talent Search, February 3, 2007.
18. "Assembly and Bench Tests of an Active Collimator", I. Senderovich and R.T. Jones, *GlueX-doc-759*, February 15, 2007.
19. "Suitability of Silicon Photomultiplier Devices for Readout of a Scintillating Fiber Tagger Hodoscope", I. Senderovich and R.T. Jones, *GlueX-doc-760*, February 15, 2007.
20. "Analysis of Interferograms using Simulated Annealing", M. Demas and R.T. Jones, poster presented at UConn Frontiers in Undergraduate Research, April 11-12, 2008.
21. "Research and Development of a Prototype Tagger Microscope", C. Nettleton and R.T. Jones, poster presented at UConn Frontiers in Undergraduate Research, April 11-12, 2008.

22. "Understanding the Dark Rate of a Silicon Photomultiplier", J. Zhao and R.T. Jones, talk presented at Annual Science Symposium, Darien High School, May 28, 2008.

Teaching experience:

Courses:	Phys 131/132	Introductory Physics with Calculus	S/1999-F/1999 S/2000-F/2000
	Phys 151	Introductory Physics for Engineers	S/2002, F/2004
	Phys 209	Intermediate Physics I	F/2006, F2007
	Phys 210	Intermediate Physics II	S/2005, S2008
	Phys 259	Electromagnetics Laboratory	S/2003, S/2004
	Phys 274/355	Particles and Nuclei	S/1997, S/1998
			S/2001, S/2007
	Phys 299	Experimental Methods (Indep. Study)	S/2002, F/2007
		Monte Carlo Methods (Indep. Study)	S/2008
		Optical Interferometry (Indep. Study)	F/2003
	Phys 327	Modern Physics	F/2007
		(segment on Nuclear Physics)	S/1997, S/1998
			S/1999, S/2000
		(primary instructor)	S/2001

Mentoring high school students:

Summer research trip to Jefferson Lab (1 student)	2000
UConn Mentor Connection site mentor (2 students)	2003
UConn Mentor Connection site mentor (2 students)	2005
UConn Mentor Connection site mentor (2 students)	2006
UConn Mentor Connection site mentor (2 students)	2007
Darien High School ASR Project Mentor (1 student)	2006-2008

Mentoring undergraduate students:

Senior thesis research project (1 student)	1999
Research trip to Glasgow, U.K. (1 student)	2002
Senior thesis research project (1 student)	2003
Summer research internship (1 student)	2006
Summer research projects (3 students)	2007
Senior thesis research project (1 student)	2008
Summer research projects (4 students)	2008
Summer research internship (1 student)	2008

Supervising graduate students:

Summer research trips to Jefferson Lab (2 students)	1998, 1999, 2000, 2006
Ph.D. students who completed degrees (2 students)	S/2006, F/2006

Research experience:

Detector R&D:

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|--|-----------|
| 1. A compact RICH detector for the Jetset experiment using a solid radiator and a pixel MWPC readout | 1990-1993 |
| 2. Thin diamond monocrystals for use as coherent bremsstrahlung targets | 1999- |
| 3. Synthetic diamond assessment using a Synchrotron Light Source facility | 2002- |
| 4. Active collimator for high-energy coherent bremsstrahlung source | 2001- |
| 5. Electron beam polarimetry using high-intensity pulsed-UV lasers | 2003- |
| 6. Scintillating fiber calorimetry in nuclear physics experiments | 2004- |
| 7. Silicon photomultiplier devices for scintillating fiber readout | 2006- |

Detector systems integration:

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| 1. Upgrade of Jetset experiment to incorporate a forward RICH | 1993-1994 |
| 2. Adaptation of Jetset barrel detector for use in the Radphi experiment | 1998-1999 |

Monte Carlo simulation:

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|---|-----------|
| 1. Physics simulation of Jetset experiment | 1992-1996 |
| 2. Physics simulation of Radphi experiment | 1998- |
| 3. Physics simulation of GlueX beamline and detector | 2001- |
| 4. Simulation of Hall C Compton polarimeter for Qweak | 2003- |
| 5. Simulation of the Hall D tagging spectrometer and electron beam line | 2006- |

Data analysis management:

- | | |
|---|-----------|
| 1. Analysis coordinator for Jetset experiment | 1994-1998 |
| 2. Manager of UConn Physics Beowulf cluster | 1/2000- |
| 3. Analysis coordinator for Radphi experiment | 6/2000- |

Partial-wave analysis:

- | | |
|--|-----------|
| 1. Author of PWA formalism for Jetset | 1995-1996 |
| 2. Co-producer of PWA results from Jetset experiment | 1999-2000 |

Research grants received:

- | | | |
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| 1. CERN internal project funding | CHF 450,000 | 1/1991-7/1994 |
| "A forward RICH for kaon identification in the Jetset experiment",
co-P.I.'s R.T. Jones, M. Renevey, M. Price | | |
| 2. U.C.R.F. Large Equipment Competition | \$16,100 | 1/2000-12/2000 |
| "A Seed for a Physics Simulation Farm using Commodity Processors and
Internet 2 Communications", co-P.I.'s R.T. Jones, R. Côté, J. Javanainen. | | |
| 3. U.S. National Science Foundation | \$252,186 | 6/2000-6/2003 |
| "Research Program in Experimental Intermediate Energy Physics", sole P.I. | | |
| 4. U.S. Civilian Research and Development Foundation | \$64,000 | 7/2002-12/2004 |
| "Development of Precise Polarimetry of Coherent Bremsstrahlung Radiation
in the Energy Range 0.3-2GeV using Pair Production Processes on Nuclei
and Atomic Electrons", A. Sirunian (YerPhi) and R.T. Jones, co-P.I.'s. | | |

5. U.S. National Science Foundation	\$75,000	8/2003-7/2004
“Research Program in Experimental Intermediate Energy Physics”, sole P.I.		
6. U.S. National Science Foundation	\$85,000	8/2004-7/2006
“Research Program in Experimental Intermediate Energy Physics”, sole P.I.		
7. Thomas Jefferson National Accelerator Facility	\$59,000	8/2005-6/2006
Support for 1-year research sabbatical at Jefferson Lab”, sole P.I.		
8. Thomas Jefferson National Accelerator Facility	\$25,000	6/2006-12/2006
“Development of Hall D Tagger and Beam Line Instrumentation”, sole P.I.		
9. National Science Foundation	\$325,000	6/2007-5/2010
“Collaborative Analysis Toolkit for Large Datasets on a Grid”, co-P.I.		
10. Thomas Jefferson National Accelerator Facility	\$70,000	6/2007-8/2008
“Development of a Prototype Tagger Microscope for Hall D”, sole P.I.		

Present research projects:

1. Jetset experiment (CERN PS-202)	current status: publishing	involvement: 1990-
2. Radphi experiment (JLab E94-016)	current status: publishing	involvement: 1996-
3. GlueX (part of JLab Upgrade)	current status: approved	involvement: 1997-
4. Qweak (JLab E02-020)	current status: approved	involvement: 2000-

Colloquia and seminars:

1. “An Experimental Test of Bell’s Inequalities”	Sept. 22, 1995
Physics Department colloquium series, Indiana University, Bloomington IN	
2. “Bridging the Gap between the Quark Model and the Standard Model”	Sept. 10, 1999
Physics Department colloquium series, University of Connecticut, Storrs CT	
3. “The Quark Model and the Standard Model: are they consistent?”	Feb. 22, 2001
Physics Department colloquium series, Wayne State University, Detroit MI	
4. “Is the Quark Model within the Standard Model?”	Jan. 17, 2002
Nuclear Physics seminar series, University of Glasgow, Glasgow, U.K.	
5. “Is the Quark Model within the Standard Model?”	Feb. 11, 2002
Physics Department colloquium series, University of Iowa, Iowa City, IA	
6. “The Hunt for the Hybrid Meson”	June 26, 2003
Frontiers in Physics Colloquium, University of Connecticut, Storrs CT	
7. “The Hunt for the Hybrid Meson”	Feb. 7, 2004
Physics and Astronomy Colloquium, Dartmouth College, Hanover, VT	
8. “Searching for Phi Radiative Decays with the Radphi experiment”	Nov. 19, 2004
Nuclear Physics Seminar series, Florida State University, Tallahassee, FL	
9. “The GlueX Experiment”, invited presentation at the Cascades Workshop,	Dec. 1, 2005
Jefferson Lab, Newport News, VA.	
10. “A Coherent Gamma Source”, invited presentation to the CHESSE weekly	Aug. 15, 2006
seminar series, Cornell University, Ithaca, NY.	
11. “Experimenting with Quarks”, invited presentation to the Darien High	May 28, 2008
School Science Symposium, Darien, CT.	
12. “Morphology of Diamonds from Analysis of X-ray Rocking Curves”,	June 10, 2008
invited presentation to the CHESSE annual User’s Meeting, Ithaca, NY.	

Bibliography:

1. “Experimental study of photon beam polarimetry based on nuclear e^+e^- pair production in an amorphous target”, F. Adamyan, A. Aganyants, H. Hakobyan, J. Manukyan, R. Oganezov, L. Sargsyan, A. Sirunyan, H. Vartapetian, and R.T. Jones, **Nucl. Instr. Meth.** **A579**, (2007) 973.
2. “Performance of the radphi detector and trigger in a high rate tagged photon beam”, R.T. Jones, T. Bogue, B.E. Evans, M. Kornicer, A.R. Dzierba, R. Gardner, J.L. Gunter, D. Krop, R. Lindenbusch, D. Rust, E. Scott, P. Smith, C. Steffen, S. Teige, D.S. Armstrong, D.H.E. Clark, L.J. Kaufman, D.J. Steiner, E. Frlez, D. Pocanic, J.J. Kolata, L.O. Lamm, G. Rogachev, C. Campbell, E. Collins, L. McGlinchey, P. Rubin, E. Walker, D.S. Adams, J. Napolitano, D.I. Sober, H. Crannell, R.R. Mammei, E.S. Smith, **Nucl. Instr. Meth.** **A 570**, (2007) 384.
3. “A Bootstrap Method for Gain Calibration and Resolution Determination of a Lead-Glass Calorimeter”, R.T. Jones, M. Kornicer, A.R. Dzierba, J.L. Gunter, R. Lindenbusch, E. Scott, P. Smith, C. Steffen, S. Teige, P. Rubin and E.S. Smith, **Nucl. Instr. Meth.** **A 566** (2006) 366.
4. “Polarimetry of coherent bremsstrahlung by analysis of the photon energy spectrum”, S. Darbinyan, H. Hakobyan, R.T. Jones A. Sirunian, and H. Vartapetian, , **Nucl. Instr. Meth.** **A 554** (2005) 75.
5. “A Photon Beam Polarimeter based on Nuclear e^+e^- Pair Production in an Amorphous Target”, F. Adamyan, H. Hakobyan, R.T. Jones, Zu Manukyan, A. Sirunian, H. Vartapetian, **Nucl. Instr. Meth.** **A 546** (2005) 376.
6. “The Selection and Performance of Diamond Radiators used in Coherent Bremsstrahlung Experiments”, J.D. Kellie, P.J.M. Clive, G.L. Yang, R. Beck, C. Gordon, C. Hall, J.W. Harris, R.T. Jones, D. Laundy, K. Livingston, I.J.D. MacGregor, J.C McGeorge, J. Malone, A. Schmidt, P.A. Slaven, R.M. Vrcelj, D. Watts, **Nucl. Instr. Meth.** **A 545** (2005) 164.
7. “Calculations of a CB polarimeter based on e^+e^- pairs photoproduction on nuclei in an amorphous target”, F. Adamyan, K. Dallankyan, H. Hakobyan, Zh. Manukyan, A. Sirunian, H. Vartapetian and R.T. Jones, YerPhi preprint 1590, December 2003.
8. “Preliminary design of a Compton Polarimeter for Hall C”, R.T. Jones, Polarimetry Workshop, Newport News, 9-10 June 2003, proceedings published on CDROM by Jefferson Lab.
9. “P.W.A. results from the Jetset experiment”, R.T. Jones, Gluonic Excitations Workshop, Newport News, 14-16 May 2003, proceedings published by Jefferson Lab.
10. “Photoproduction of Gluonic Excitations and Unusual Mesons: The Hall D Project at Jefferson Lab”, the Hall D collaboration, A. Dzierba spokesman, Hall D Design Report v4, Jefferson Lab Reports (Nov. 11, 2002) R.T. Jones editor and primary author of chap. 4 “Photon Beam and Tagger” pp. 49-104, and chap. 10, “Monte Carlo Simulations” pp. 237-262.
11. “Can the scalar mesons $a_0/f_0(980)$ be described by a kaon-antikaon state?”, R.T. Jones, Proceedings of EMI2001 International Symposium on Electromagnetic Interactions in Nuclei, Osaka, 4-7 December 2001, M. Fujiwara and T.Shima eds., published by World Scientific (2002) 392.
12. “Influence of spatial symmetry on the dynamics of strong-field ionization”, C. Guo, R.T. Jones, G.N. Gibson, **Phys. Rev.** **A62** Rapid Communications (2000) 15402.

13. "P.W.A. results from the Jetset experiment", R.T. Jones, AIP Conference Proceedings vol.549, eds. Z. Parsa and W. Marciano (2000) 237.
14. "Optimal Photon Sources for CEBAF at Higher Energies," R.T. Jones, Physics and Instrumentation with 6-12 GeV Photons, eds. S. Dytman, H. Fenker, R. Roos, proceedings published by Jefferson Lab User's Group (1999) 189.
15. "Study of the reaction from 1.1 to 2.0 GeV/c," the JETSET collaboration, listed authors A. Buzzo, P.T. Debevec, D. Drijard, R.A. Eisenstein, C. Evangelista, W. Eyrich, H. Fischer, J. Franz, R. Geyer, N.H. Hamann, P.G. Harris, D.W. Hertzog, S.A. Hughes, T. Johansson, R.T. Jones, K. Kilian, K. Kirsebom, H. Korsmo, M. Lo Vetere, M. Macrì, M. Marinelli, M. Moosburger, B. Mouëllic, W. Oelert, S. Ohlsson, A. Palano, S. Passaggio, J.-M. Perreau, M.G. Pia, S. Pomp, A. Pozzo, M. Price, P.E. Reimer, J. Ritter, E. Robutti, M. Rook, K. Röhrich, E. Rössle, A. Santroni, H. Schmitt, O. Steinkamp, F. Stinzing, B. Stugu and H. Wirth, **Phys. Rev. D57** (1998) 5370.
16. "The Radphi experiment at Jefferson Lab," R.T. Jones, Hadron Spectroscopy Seventh International Conference, AIP Conference Proceedings 432, Eds. S.U. Chung and H.J. Willutzki (1998) 635.
17. "Measurement of the Reaction from 0.6 to 1.9 GeV/c", the JETSET collaboration, listed authors A. Buzzo, P.T. Debevec, D. Drijard, R.A. Eisenstein, C. Evangelista, W. Eyrich, H. Fischer, J. Franz, R. Geyer, N.H. Hamann, P.G. Harris, D.W. Hertzog, S.A. Hughes, T. Johansson, R.T. Jones, K. Kilian, K. Kirsebom, H. Korsmo, M. Lo Vetere, M. Macrì, M. Marinelli, M. Moosburger, B. Mouëllic, W. Oelert, S. Ohlsson, A. Palano, S. Passaggio, J.-M. Perreau, M.G. Pia, S. Pomp, A. Pozzo, P.E. Reimer, J. Ritter, E. Robutti, M. Rook, K. Röhrich, E. Rössle, A. Santroni, H. Schmitt, O. Steinkamp, F. Stinzing, B. Stugu, H. Wirth, **Phys. Rev. D56** (1997) 3803.
18. "Search for narrow resonances in the reaction ", the JETSET collaboration, listed authors A. Buzzo, P.T. Debevec, D. Drijard, R.A. Eisenstein, C. Evangelista, W. Eyrich, H. Fischer, J. Franz, R. Geyer, N.H. Hamann, P.G. Harris, D.W. Hertzog, S.A. Hughes, T. Johansson, R.T. Jones, K. Kilian, K. Kirsebom, H. Korsmo, M. Lo Vetere, M. Macrì, M. Marinelli, M. Moosburger, B. Mouëllic, W. Oelert, S. Ohlsson, A. Palano, S. Passaggio, J.-M. Perreau, M.G. Pia, S. Pomp, A. Pozzo, M. Price, P.E. Reimer, J. Ritter, E. Robutti, M. Rook, K. Röhrich, E. Rössle, A. Santroni, H. Schmitt, O. Steinkamp, F. Stinzing, B. Stugu and H. Wirth, **Zeitschrift für Physik C76** (1997) 475. (hep-ex/9801015)
19. "Observation of $\phi\phi$ production in the reaction $\bar{p}p \rightarrow 4K^\pm$ at 1.4 GeV/c incident \bar{p} momentum," the JETSET collaboration, listed authors L. Bertolotto, A. Buzzo, P.T. Debevec, D. Drijard, S. Easo, R.A. Eisenstein, W. Eyrich, T. Fearnley, H. Fischer, J. Franz, R. Geyer, N.H. Hamann, P.G. Harris, D.W. Hertzog, S.A. Hughes, A. Johansson, T. Johansson, R.T. Jones, K. Kilian, K. Kirsebom, A. Klett, H. Korsmo, M. Lo Vetere, M. Macrì, M. Marinelli, M. Moosburger, B. Mouëllic, W. Oelert, S. Ohlsson, A. Palano, S. Passaggio, J.-M. Perreau, M.G. Pia, S. Pomp, M. Price, P.E. Reimer, J. Ritter, E. Robutti, K. Röhrich, M. Rook, E. Rössle, A. Santroni, H. Schmitt, T. Sefzick, O. Steinkamp, F. Stinzing, B. Stugu, R. Tayloe, M. Tscheulin, H.-J. Urban, H. Wirth and H. Zipse, **Phys. Lett B345**, (1995) 325.
20. "Exclusive $\phi\phi$ production in $\bar{p}p$ annihilations at PS202", R.T. Jones, Third Biennial Conference on Low Energy Antiproton Physics, Bled, Slovenia, Sept.11–17 1994, proceedings published by World Scientific, eds. G. Kernel, P. Krizan and M. Mikuz (1995) p. 326.
21. "Quantum Mechanics and Bell's Inequalities," R.T. Jones and E.G. Adelberger, **Phys. Rev. Lett. 72**, (1994) 2675.

22. "The JETSET barrel drift-tube (straw) chamber", N.H. Hamann, J. Dittmayer, A. Klett, E. Rössle, M. Tscheulin, H.-J. Urban, H. Wirth, H. Zipse, M.J. Price, E. David, R. Harfield, R.T. Jones, D. Lacroix and C. Rivoiron, **Nucl. Instr. Meth. A346** (1994) p. 57.
23. "First Results from the Jetset RICH detector", R.T. Jones, First Workshop on Ring Imaging Cerenkov Detectors, Bari Italy, June 2–5 1993, proceedings published by North Holland, eds. E. Nappi and T. Ypsilantis, p. 208.
24. "A fast RICH detector for JETSET", R.T. Jones, M. Price, M. Renevey and H. Wirth, **Nucl. Instr. Meth. A323** (1992) p. 386.
25. "A Simple Modular Wire Chamber for use as a RICH Photon Detector", B. Firth, T. Lafford, R.T. Jones, M. Price, M. Renevey, and G. Muratori, **Nucl. Instr. Meth. A311** (1992) p.484.
26. "An Absolute Measurement of the Differential Cross Section for Deuteron Photodisintegration from 63 to 71 MeV", J.E. Knott, P.T. Debevec, P.D. Harty, D.A. Jenkins and R.T. Jones, **Phys. Rev. C45** (1992) p.904.
27. "An Absolute Measurement of the Differential Cross Section for the Reaction ${}^4\text{He}(\gamma, p){}^3\text{H}$ from 63 to 71 MeV", R.T. Jones, D.A. Jenkins, P.T. Debevec, P.D. Harty and J.E. Knott, **Phys. Rev. C40** (1991) p.2052.
28. "Large Solid Angle Detector for Charged Particles from Photodisintegration of Light Nuclei", P.D. Harty, R.T. Jones, J.E. Knott, P.T. Debevec and D.A. Jenkins, **Nucl. Instr. Meth. A297** (1990) p.415.
29. "An Automated Method for Measuring Wire Tensions in Multiwire Chambers", R.T. Jones, **Nucl. Instr. Meth. A268** (1988) p.550.
30. "A Multi-Tasking Laboratory Data Acquisition System under TSX-Plus", poster presented by R.T. Jones at the Fifth Conference on Real-Time Computer Applications in Nuclear, Particle, and Plasma Physics, San Francisco, May 1987, published **IEEE Trans. Nucl. Sc. NS34** (1987) p.917.
31. "Analysis of Multiple Scattering for (e,2e) Experiments on Thin Films", R.T. Jones and A.L. Ritter, **Journal of Electron Spectroscopy and Related Phenomena 40** (1986) p.285.
32. "Kinematics of Threshold (γ, π^0) Reactions", D.A. Jenkins and R.T. Jones, **Phys. Rev. C31** (1985) p.262.
33. "The Spectral Momentum Density of Amorphous Carbon from (e,2e) Spectroscopy", A.L. Ritter, J.R. Dennison and R.T. Jones, **Phys. Rev. Lett. 53** (1984) p.2054.

Collaborations:

1. Jetset (PS202) experiment at CERN-LEAR, M Macri spokesman 1990-present
Buzzo, P.T. Debevec, D. Drijard, R..A. Eisenstein, C. Evangelista, W. Eyrich, H. Fischer, J. Franz, R. Geyer, N.H. Hamann, P.G. Harris, D.W. Hertzog, S.A. Hughes, T. Johansson, R.T. Jones, K. Kilian, K. Kirsebom, H. Korsmo, M. Lo Vetere, M.. Macrì, M. Marinelli, M. Moosburger, B. Mouëllic, W. Oelert, S. Ohlsson, A. Palano, S. Passaggio, J.-M. Perreau, M.G. Pia, S. Pomp, A. Pozzo, M. Price, P.E. Reimer, J. Ritter, E. Robutti, M. Rook, K. Röhrich, E. Rössle, A. Santroni, H. Schmitt, O. Steinkamp, F. Stinzing, B. Stugu and H. Wirth.
2. Radphi (E94-16) experiment at JLab Hall B, R.T. Jones spokesman 1996-present
H. Crannell, A. Longhi, J. O'Brien, D. Sober, R.T. Jones, T. Bogue, A. Dzierba, R. Gardner, J. Gunter, R. Lindenbusch, D. Rust, E. Scott, P. Smith, C. Steffen, T. Sulanke, S. Teige, D. Abbott, M. Ito, R. MacLeod, E. Smith, K. Burchesky, J. Kolata, L. Lamm, J. LoSecco, G. Adams, J. Napolitano, J. Price, M. Witkowski, E. Collins, J. Gilfoyle, L. McGlinchey, J. Miller, P. Rubin, M. Vineyard, E. Walker, E. Frlez, D. Pocanic, D. Armstrong, M. Brown, J. Clark, L. Kaufman, J. Knowles, S. Sligh, D. Steiner.
3. Qweak (E02-020)experiment at JLab Hall C, R. Carlini spokesman 2000-present
D. Armstrong, T. Averett, J.D. Bowman, R. Carlini, C.A. Davis, J. Erler, R. Ent, M. Finn, T.A. Forest, K. Johnston, R.T. Jones, K. Joo, S. Kowalski, L. Lee, A. Lung, D. Mack, S.A. Page, S. Pentilla, M. Pitt, M. Poelker, W.D. Ramsay, M. Ramsey-Musolf, J. Roche, N. Simicevic, G. Smith, R. Suleiman, S. Taylor, W.T.H. van Oers, S. Wells, S. Wilburn, S.A. Wood.
4. GlueX (proposal) experiment at JLab Hall D, A. Dzierba spokesman 1998-present
R. Clark, P. Eugenio, G. Franklin, C. A. Meyer (Acting Co-Spokesperson), B. Quinn, R. Schumacher, H.Crannell, D.Sober, D. Doughty, D. Heddle, R.T. Jones, K. Joo, W. Boeglin, L. Kramer, P. Markowitz, B. Raue, J. Reinhold, L. Dennis, P. Dragovitsch, G. Riccardi, A. Dzierba (Spokesperson), M. Pichowsky, E. Scott, P. Smith, T. Sulanke, A. Szczepaniak, S. Teige, S. Denisov, N. Fedyakin, A. Gorokhov, V. Samoilenko, A. Schukin, D. Abbott, I. Bird, R. Carlini, H. Fenker, A. Freyberger, G. Heyes, R. Macleod, J. Manak, C. Sinclair, E. Smith (Hall D Group Leader), D. Weygand, E. Wolin, R. Mischke, A. Palounek, J. C. Peng, V. A. Bodyagin, A. M. Gribushin, N. A. Kruglov, V. L. Korotkikh, M. A. Kostin, A. I. Demianov, O. L. Kodolova, L. I. Sarycheva, A. A. Yershov, M. Khandaker, V. Punjabi, C. Salgado, E. Solodov, A. Klein, D. Carman, K. Hicks, S. Dytman, J. Mueller, E. J. Brash, G. M. Huber, G. J. Lolos, Z. Papandreou, G. Adams, J. Cummings, R. Davidson, A. Empl, N. Mukhopadhyay, J. Napolitano, P. Stoler, J. M. Laget, M. Garcon, S. Godfrey, R. Kaminski, L. Lesniak, J. Goity, M. Pichowsky, A. Szczepaniak, P. Page, A. Afanasev, E. Swanson, T. Barnes, R. Davidson.