

Curriculum vitae

George D. Gollin
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- WWW** <http://www.hep.uiuc.edu/home/g-gollin/>
- Birthdate** May 6, 1953 (New York, N.Y.) U.S. citizen
- Personal** Married, one child
- Education** Harvard University, 1971-75: A.B., 1975 (magna cum laude in physics)
Princeton University, 1975-80: M.A., 1977 (Physics)
Ph.D., 1981 (Physics)
- Career** 1975-80: Graduate student, Princeton University
1980-82: Robert R. McCormick Postdoctoral Fellow, University of Chicago
1982-83: Research Associate, University of Chicago
1982: Arthur H. Compton Lecturer, University of Chicago
1983-1989: Assistant Professor, Princeton University
1986-1996: Spokesperson, Fermilab Experiment 773
1987-1989: Academic advisor, Forbes College
1989-1996: Associate Professor, Univ. of Illinois at Urbana-Champaign
1996-present: Professor, Univ. of Illinois at Urbana-Champaign
1999: Professeur Invité, University Aix-Marseille II, Marseille, France
2001: Professeur Invité, University Aix-Marseille II, Marseille, France
2004: Guest Scientist, Fermi National Accelerator Laboratory
2007: Guest Scientist, Argonne National Laboratory
- Research** Muon scattering:
Fermilab E203/391, 1976-1980 (structure functions, charm production)
K meson physics:
Fermilab E617, 1980-1985 (CP violation)
Fermilab E731, 1983-1993 (CP violation, rare decays)
Fermilab E773, 1986-1996 (CP and CPT violation; spokesman)
Fermilab E799, 1989-1996 (rare decay searches)
 e^+e^- scattering
Cornell Electron Storage Ring: CLEO II and III, 1994-present
Linear Collider Research and Development Working Group Coordinator,

2002-present
 ATLAS (at CERN's Large Hadron Collider)
 Silicon pixel group 1998-2002

**External
 Committees** 1988-1990: Fermilab Users Executive Committee
 1990: NSF Undergraduate Curriculum Planning Workshop
 1990: Consultant, DOE program review of Brookhaven National Labs
 1990: External Review Committee for the Graduate School, Princeton University
 1991: Consultant, DOE program review of Brookhaven National Labs
 1995: Consultant, DOE technical review of Fermilab KTeV experiment
 1996-present: Technology Coordinator, University Primary School
 1996: Consultant, DOE program review of Fermilab
 1997: Consultant, technical review of Brookhaven E927
 2004-present: Chair, Fermilab Outreach Committee
 2004 Chair, American Physical Society Division of Particles and Fields Government
 Affairs Committee
 2005-2007: Fermilab Users Executive Committee
 2005-2008: Linear Collider Steering Group for the Americas
 2006-2009: Council for Higher Education Accreditation, member of the Board of
 Directors

**Consulting
 and analysis
 related to
 accreditation
 and
 curriculum
 delivery** State of Hawaii Office of Consumer Protection
 State of Illinois Board of Higher Education
 State of Missouri Department of Public Safety
 State of North Dakota Department of Career and Technical Education
 State of Oregon Office of Degree Authorization
 State of Texas Higher Education Coordinating Board
 State of Washington Higher Education Coordinating Board
 State of Washington Office of the Attorney General
 Embassy of the Republic of Liberia
 The Netherlands Organization for International Cooperation in Higher Education
 (Nuffic)
 The Netherlands Informatie Beheer Groep
 Swedish National Agency for Higher Education
 United Kingdom's Department for Education and Skills
 U.S. Department of Education Office of Postsecondary Education
 U.S. Federal Trade Commission
 U.S. General Accounting Office Office of Special Investigations
 U.S. Department of the Interior Office of Inspector General
 U.S. State Department, Bureau of Educational and Cultural Affairs
 U.S. Secret Service
 International Association of Universities, UNESCO
 American Association of Collegiate Registrars and Admissions Officers
 Council for Higher Education Accreditation

CBS *Evening News* and *60 Minutes*
 ABC *Prime Time Thursday*
 CNN *Next@CNN* and *Paula Zahn Now*
 NBC *Dateline*
 Spokane, Washington *Spokesman-Review*
 Rochester, New York *Democrat and Chronicle*
 Southwest Airlines
 lots more...

Fellowships National Merit Scholarship, 1971-72
 Levitt Foundation Scholarship, 1971-75
 John B. Putnam Graduate Fellow, 1975-76
 Schlumberger Graduate Fellow, 1977-78
 Robert R. McCormick Postdoctoral Fellow, 1980-82
 Beckman Associate, Center for Advanced Study, Fall, 1997

Honors Rose Award for Teaching Excellence (College of Engineering), 2004
 Arnold Nordsieck Physics Award for Teaching Excellence, 2003
 College of Engineering Advisors List for Advising Excellence, 2001
 D.O.E. Outstanding Junior Investigator, 1985-89
 Presidential Scholar, 1971
 Harvard National Scholar, 1971-75
 Phi Beta Kappa
 UIUC "Incomplete List of Teachers Ranked as Excellent":
 Fall 2003, Spring 2003, Spring 2002, Spring 1997, Spring 1995, Fall 1994

Curriculum Revised University of Illinois intermediate physics major sequence (1994-1995).
Development New courses: *Classical Mechanics and Relativity I and II*
 (Physics 225 and 326)
 Created honors sequence to accompany introductory physics courses (2001).
 New course: *Honors Seminar: Topics in Electricity and Magnetism*
 (Physics 199HO)

Recent Talks

- The International Linear Collider: A Detector Physicist Describes Accelerator Physics to String Theorists:* High energy physics seminars, University of Illinois at Urbana-Champaign, March 27, 2006; University of Oregon, May 18, 2006; Boston University, March 1, 2007.
- University-Based Linear Collider Accelerator R&D in the United States:* High energy physics seminars, Harvard, March 24, 2005; Princeton, March 31, 2005; University of Rochester, April 26, 2005.
- Fourier Series Pulse Compression Damping Ring Kicker,* First ILC Workshop, KEK (Japan), November 14, 2004.
- ILC injector: working group 3 summary,* ILC-Americas Workshop, SLAC, October 16, 2004.
- Damping ring kickers,* ILC-Americas Workshop, SLAC, October 14, 2004.
- University Based Linear Collider Accelerator R&D,* University of Wisconsin, September 28, 2004.
- University Based Linear Collider Accelerator R&D,* Victoria Linear Collider Workshop (ALCPG 2004), Victoria, British Columbia, July 29, 2004.
- Fourier engineering: progress on alternative TESLA kickers,* Victoria Linear Collider Workshop (ALCPG 2004), Victoria, British Columbia, July 28, 2004.
- Things that go bump in the pipe: understanding acoustic signatures of NLC rf cavity breakdown,* Victoria Linear Collider Workshop (ALCPG 2004), Victoria, British Columbia, July 28, 2004.
- U.S. University-Based Linear Collider Accelerator R&D,* Centre de Physique des Particules de Marseille, July 19, 2004. (Done in French!)
- University Based Linear Collider Accelerator R&D,* International Conference on Linear Colliders (LCWS 2004), Paris, April 23, 2004.
- Fourier series damping ring kicker for TESLA,* International Conference on Linear Colliders (LCWS 2004), Paris, April 21, 2004.
- U.S. University Linear Collider R&D and Studies of Alternative TESLA Damping Ring Designs,* International Technical Review Panel presentation, DESY (*Deutsches Elektronen-Synchrotron*), Hamburg, Germany, April 6, 2004.
- Accelerator physics summary & report on UCLC + LCRD R&D program,* ALCPG04 (SLAC Linear Collider Workshop), January 10, 2004; also University of Pittsburgh High Energy Physics seminar, February 3, 2004.
- Modeling acoustic signatures of rf cavity breakdown,* ALCPG04 (SLAC Linear Collider Workshop), January 8, 2004.
- A Fourier series kicker for the TESLA damping rings,* ALCPG04 (SLAC Linear Collider Workshop), January 9, 2004.
- Hijacking Liberia and Other Acts of Piracy: Diploma Mills in the Networked World,* and related presentations concerning diploma mills, problems in (international) university accreditation, and academic credential fraud:
Stanford Linear Accelerator Center colloquium, January 12, 2004; Fermi National Accelerator Laboratory colloquium, January 21, 2004; University of Pittsburgh / Carnegie Mellon University Physics (Joint) Colloquium, February 2, 2004; UIUC Institute of Government and Public Affairs seminar, February 9, 2004; University of Michigan Law School seminar, March

8, 2004; University of Iowa Physics Department colloquium, April 28, 2004; University of Wisconsin at Madison Physics Department colloquium, September 29, 2004; Illinois Institute of Technology Biology Department Colloquium, October 18, 2004; American Association of Collegiate Registrars and Admissions Officers (AACRAO) 2005 Annual Meeting, New York: March 28, 2005; National Association of Graduate Admissions Professionals, Chicago: April 23, 2005; Illinois Association of Collegiate Registrars and Admissions Officers (IACRAO) 2005 Annual Meeting, Peoria: October 26, 2005; AACRAO Diploma Mill Workshop, Chicago, November 17, 2005; University of Colorado Physics Department colloquium, December 7, 2005; University of Chicago Physics Department colloquium, January 5, 2006; Council for Higher Education Accreditation (CHEA) Annual Conference, San Francisco, January 23, 2006; AACRAO Annual Meeting, San Diego: April 17, 2006; NAFSA: Association of International Educators Annual Meeting, Montréal, Canada: May 23, 2006; National Association of State Directors of Teacher Education and Certification (NASDTEC) Annual Conference, Minneapolis, June 4, 2006; AACRAO 2007 Annual Meeting, Boston: February 28, 2007; UIUC Campus Honors Program presentation: April 10, 2007..

Special Relativity, UIUC Saturday Morning Physics Honors Program presentation, November 15, 2003.

It's Not Like Colliding Watermelons: A High Energy Physics Chalk Talk, UIUC talk to summer (REU) students, July 23, 2003.

Damping Rings and Sources Summary, Cornell Linear Collider Workshop, July 16, 2003.

Update: Acoustic Localization of rf Cavity Breakdown, Cornell Linear Collider Workshop, July 14, 2003.

Update: A Fourier Series Kicker for the TESLA Damping Rings, Cornell Linear Collider Workshop, July 13, 2003.

Confronting Mathematics With Duct Tape: How Can We Tell When Mathematics and Physical Reality Coincide? BCDE Seminar (UIUC), May 14, 2003.

The Wild, Wild West Confronts Big Science: NLC and TESLA at American Universities, Centre de Physique des Particules de Marseille, March 24, 2003 (Done in French!); Rutherford Appleton Laboratory, March 26, 2003; University of London, March 27, 2003; The Ohio State University, April 23, 2003; Indiana University, April 24, 2003.

Unconventional University Diplomas from Online Vendors, Center for Advanced Study presentation (UIUC), February 5, 2003; Department of Physics (UIUC), May 2, 2003; Department of Epidemiology and Biostatistics Seminar (University of California at San Francisco), September 12, 2003; University of Illinois Alumni Association, September 17, 2003; Searle Center for Teaching Excellence seminar (Northwestern University), November 14, 2003.

Investigation of Acoustic Localization of rf Cavity Breakdown, Arlington Linear Collider Workshop (University of Texas at Arlington); January 9, 2003.

Speculations About a Fourier Series Kicker for the TESLA Damping Rings, Arlington Linear Collider Workshop (University of Texas at Arlington); January 10, 2003.

The Physics of Dance, Saturday Morning Physics Honors Program presentation at UIUC; December 1, 2001.

Neutrino Mixing I: An Introduction to the Phenomenology, UIUC, February 20, 2001.

Neutrino Mixing II: Oscillation Results and Experiments, UIUC, February 27, 2001

Publications: muon scattering (journal articles)

- A. R. Clark, K. J. Johnson, L. T. Kerth, S. C. Loken, T. W. Markiewicz, P. D. Meyers, W. H. Smith, M. Strovink, W. A. Wenzel, R. P. Johnson, C. Moore, M. Mugge, R. E. Shafer, G. D. Gollin, F. C. Shoemaker and P. Surko. Observation of $J/\psi(3100)$ production by 209 GeV muons. *Phys. Rev. Lett.* **43**, 187-190 (1979).
- G. D. Gollin, M. Isaila, F. C. Shoemaker and P. Surko. Drift chamber system for a high rate experiment. *IEEE Trans. Nucl. Sci.* **NS-26**, 59-63 (1979).
- A. R. Clark, G. D. Gollin et al. Cross section measurements for charm production by 209 GeV muons. *Phys. Rev. Lett.* **45**, 682-686 (1980).
- A. R. Clark, G. D. Gollin et al. Limit on ρ muoproduction at 209 GeV. *Phys. Rev. Lett.* **45**, 686-688 (1980).
- A. R. Clark, G. D. Gollin et al. Measurement of the charm structure function and its role in scale-noninvariance. *Phys. Rev. Lett.* **45**, 1465-1468 (1980).
- A. R. Clark, G. D. Gollin et al. Polarization of muoproduced $J/\psi(3100)$. *Phys. Rev. Lett.* **45**, 2092-2095 (1980).
- G. D. Gollin, A. R. Clark, K. J. Johnson, L. T. Kerth, S. C. Loken, T. W. Markiewicz, P. D. Meyers, W. H. Smith, M. Strovink, W. A. Wenzel, R. P. Johnson, C. Moore, M. Mugge, R. E. Shafer, F. C. Shoemaker and P. Surko. Charm production by muons and its role in scale noninvariance. *Phys. Rev. D* **24**, 559-589 (1981).
- A. R. Clark, G. D. Gollin et al. Lower limit on neutral heavy muon mass. *Phys. Rev. Lett.* **46**, 299(1981).
- A. R. Clark, G. D. Gollin et al. Study of rare processes induced by 209 GeV muons. *Phys. Rev. D* **25**, 2762-2793 (1982).
- A. R. Clark, G. D. Gollin et al. Measurement of the nucleon structure function in iron using 215- and 93- GeV muons. *Phys. Rev. Lett.* **51**, 1826-1829 (1983).
- P. D. Meyers, A. R. Clark, K. J. Johnson, L. T. Kerth, S. C. Loken, T. W. Smith, W. H. Markiewicz, M. Strovink, W. A. Wenzel, R. P. Johnson, C. Moore, M. Mugge, R. E. Shafer, G. D. Gollin, F. C. Shoemaker and P. Surko. Measurement of the nucleon structure function in iron using 215- and 93- GeV muons. *Phys. Rev. D* **34**, 1265-1304 (1986).

Publications: muon scattering (conference proceedings)

- A. R. Clark, G. D. Gollin et al. Muoproduction of multimMuon final states at Fermilab: Preliminary results. Proc. of the 14th Rencontre de Moriond Current Hadron Interactions (Les Arcs, Savoie, France; March 11-23, 1979) ed. J. Tran Thanh Van (Editions Frontieres: Dreux, France) (1979).
- A. R. Clark, G. D. Gollin et al. Muon scattering into 1-5 muon final states. Proc. of the 1979 Intl. Symp. on Lepton and Photon Interactions at High Energies (Batavia, Illinois; Aug. 23-29, 1979) ed. T. B. W. Kirk (Fermilab: Batavia, Illinois) 503(1979).
- A. R. Clark, G. D. Gollin et al. Study of rare muon induced processes. Proc. of the European Physical Society Intl. Conf. on High Energy Physics (Geneva, Switzerland; June 27-July 4, 1979) ed. A. Zichichi (CERN: Geneva, Switzerland) 765(1980).

A. R. Clark, G. D. Gollin et al. Virtual photoproduction of hidden and open charm. Proc. of the Summer Institute on Particle Physics (SLAC, Stanford, Calif.; July 28-August 8, 1980) ed. A. Mosher 539(1980).

A. R. Clark, G. D. Gollin et al. Open and hidden charm muoproduction. High Energy Physics - 1980 XX Intl. Conf. (Madison, Wisconsin; July 17-23, 1981) eds. L. Durand and L. G. Pondrom (American Institute of Physics: N. Y.) 212(1981).

Publications: K meson physics (journal articles)

R. H. Bernstein, G. J. Bock, D. Carlsmith, D. Coupal, G. D. Gollin, K. Nishikawa, H. W. M. Norton, B. Winstein, B. Peyaud, R. Turlay and A. Zylberstejn. A measurement of ε'/ε in the neutral Kaon system. *Phys. Rev. Lett.* **54**, 1631-1634 (1985).

D. Coupal, R. H. Bernstein, G. J. Bock, D. Carlsmith, G. D. Gollin, K. Nishikawa, H. W. M. Norton, B. Winstein, B. Peyaud, R. Turlay and A. Zylberstejn. Measurement of the ratio $\Gamma(K_L \rightarrow \pi^+ \pi^-) / \Gamma(K_L \rightarrow \pi \nu)$ for K_L with 65 GeV/c laboratory momentum. *Phys. Rev. Lett.* **55**, 566-569 (1985).

D. Carlsmith, R. H. Bernstein, G. J. Bock, D. Coupal, G. D. Gollin, K. Nishikawa, H. W. M. Norton, B. Winstein, B. Peyaud, R. Turlay and A. Zylberstejn. Measurement of the $K^{0*}(896)$ radiative width. *Phys. Rev. Lett.* **56**, 18-21 (1986).

D. Carlsmith, G. D. Gollin et al. Limit on the radiative width of the $K^{0*}(1430)$. *Phys. Rev. D* **36**, 3502-3505 (1987).
M. Woods, K. Nishikawa, J. R. Patterson, Y. W. Wah, B. Winstein, E. C. Swallow, G. J. Bock, R. Coleman, Y. B. Hsiung, K. Stanfield, R. Stefanski, T. Yamanaka, G. D. Gollin, G. L. Grazer, J. K. Okamitsu, P. Jarry, R. Daudin, P. Debu, B. Peyaud and R. Turlay. First result on a new measurement of ε'/ε in the neutral Kaon system. *Phys. Rev. Lett.* **60**, 1695-1698 (1988).

L. Gibbons, V. Papadimitriou, J. R. Patterson, Y. W. Wah, B. Winstein, R. Winston, M. Woods, H. Yamamoto, E. C. Swallow, G. J. Bock, R. Coleman, Y. B. Hsiung, K. Stanfield, R. Stefanski, T. Yamanaka, G. Blair, G. D. Gollin, M. Karlsson, J. K. Okamitsu, P. Debu, B. Peyaud, R. Turlay and B. Vallage. New limits on $K_{L,S} \rightarrow \pi^- e^+ e^-$. *Phys. Rev. Lett.* **61**, 2661-2664 (1988).

V. Papadimitriou, L. K. Gibbons, J. R. Patterson, Y. W. Wah, R. Winstein, M. Woods, Yamamoto, E. C. Swallow, G. J. Bock, R. Coleman, Y. B. Hsiung, K. Stanfield, R. Stefanski, T. Yamanaka, G. D. Gollin, M. Karlsson, J. K. Okamitsu, P. Debu, B. Peyaud, R. Turlay and B. Vallage. A search for $K_L \rightarrow \pi^0 \gamma \gamma$. *Phys. Rev. Lett.* **63**, 28-30 (1989).

A. Barker, M. Karlsson, G. D. Gollin, J. K. Okamitsu, R. Tschirhart, R. A. Briere, L. K. Gibbons, G. Makoff, V. Papadimitriou, J. R. Patterson, S. Somalwar, Y. W. Wah, B. Winstein, R. Winston, M. Woods, H. Yamamoto, E. Swallow, G. J. Bock, R. Coleman, J. Enagonio, Y. B. Hsiung, K. Stanfield, R. Stefanski, T. Yamanaka, P. Debu, B. Peyaud, R. Turlay and B. Vallage. A new limit on $K_L \rightarrow \pi^0 e^+ e^-$. *Phys. Rev. D* **41**, 3546-3547 (1990).

J. R. Patterson, A. Barker, R. A. Briere, L. K. Gibbons, G. Makoff, V. Papadimitriou, S. Somalwar, Y. W. Wah, B. Winstein, R. Winston, M. Woods, H. Yamamoto, E. Swallow, G. J. Bock, R. Coleman, J. Enagonio, Y. B. Hsiung, K. Stanfield, R. Stefanski, T. Yamanaka, G. Blair, G. D. Gollin, M. Karlsson, J. K. Okamitsu, R. Tschirhart, J. C. Brisson, P. Debu, B. Peyaud, R. Turlay and B. Vallage. A determination of $\text{Re}(\varepsilon'/\varepsilon)$ by simultaneous detection of the four $K_{L,S} \rightarrow \pi \pi$ decay modes. *Phys. Rev. Lett.* **64**, 1491-1494 (1990).

M. Karlsson, G. D. Gollin, J. K. Okamitsu, R. Tschirhart, A. Barker, R. A. Briere, L. K. Gibbons, G. Makoff, V. Papadimitriou, J. R. Patterson, S. Somalwar, Y. W. Wah, B. Winstein, R. Winston, M. Woods, H. Yamamoto, E.

Swallow, G. J. Bock, R. Coleman, J. Enagonio, Y. B. Hsiung, K. Stanfield, R. Stefanski, T. Yamanaka, P. Debu, B. Peyaud, R. Turlay and B. Vallage. A test of CPT symmetry through a determination of the difference in the phases of η_{00} and η_{+-} in $K \rightarrow 2\pi$ decays. *Phys. Rev. Lett.* **64**, 2976-2979 (1990).

V. Papadimitriou, A. Barker, R. A. Briere, L. K. Gibbons, G. Makoff, J. R. Patterson, S. Somalwar, Y. W. Wah, B. Winstein, R. Winston, M. Woods, H. Yamamoto, E. C. Swallow, G. J. Bock, R. Coleman, J. Enagonio, Y. B. Hsiung, K. Stanfield, R. Tschirhart, T. Yamanaka, G. D. Gollin, M. Karlsson, J. K. Okamitsu, P. Debu, B. Peyaud, R. Turlay and B. Vallage. A measurement of the branching ratio of the decay $K_L \rightarrow \pi^0 \gamma \gamma$. *Phys. Rev. D* **44**, 573-576 (1991).

G. E. Graham, A. Barker, R. A. Briere, L. K. Gibbons, G. Makoff, V. Papadimitriou, J. R. Patterson, S. V. Somalwar, Y. W. Wah, B. Winstein, R. Winston, H. Yamamoto, E. C. Swallow, G. K. Bock, R. Coleman, J. Enagonio, Y. B. Hsiung, E. Ramberg, K. Stanfield, R. Tschirhart, T. Yamanaka, G. D. Gollin, M. Karlsson, J. Okamitsu, P. Debu, B. Peyaud, R. Turlay and B. Vallage. A limit on the decay $K_L \rightarrow \pi^0 \bar{\nu} \nu$. *Phys. Lett. B* **295**, 169(1992).

S. V. Somalwar, A. Barker, R. A. Briere, L. K. Gibbons, G. Makoff, V. Papadimitriou, J. R. Patterson, Y. W. Wah, B. Winstein, R. Winston, H. Yamamoto, E. C. Swallow, G. J. Bock, R. Coleman, J. Enagonio, Y. B. Hsiung, E. Ramberg, K. Stanfield, R. Tschirhart, T. Yamanaka, G. D. Gollin, M. Karlsson, J. K. Okamitsu, P. Debu, B. Peyaud, R. Turlay and B. Vallage. A measurement of the quadratic slope parameter in the $K_L \rightarrow 3\pi^0$ decay Dalitz plot. *Phys. Rev. Lett.* **68**, 2580(1992).

L. K. Gibbons, A. Barker, R. A. Briere, G. Makoff, V. Papadimitriou, J. R. Patterson, B. Schwingenheuer, S. V. Somalwar, Y. W. Wah, B. Winstein, R. Winston, M. Woods, H. Yamamoto, E. C. Swallow, G. J. Bock, R. Coleman, J. Enagonio, Y. B. Hsiung, E. Ramberg, K. Stanfield, R. Tschirhart, T. Yamanaka, G. D. Gollin, M. Karlsson, J. K. Okamitsu, P. Debu, B. Peyaud, R. Turlay and B. Vallage. New measurements of the neutral kaon parameters Δm , τ_S , $\phi_{00} - \phi_{+-}$, and ϕ_{+-} . *Phys. Rev. Lett.* **70**, 1199-1202 (1993).

L. K. Gibbons, A. Barker, R. A. Briere, G. Makoff, V. Papadimitriou, J. R. Patterson, B. Schwingenheuer, S. V. Somalwar, Y. W. Wah, B. Winstein, R. Winston, M. Woods, H. Yamamoto, E. C. Swallow, G. J. Bock, R. Coleman, J. Enagonio, Y. B. Hsiung, E. Ramberg, K. Stanfield, R. Tschirhart, T. Yamanaka, G. D. Gollin, M. Karlsson, J. K. Okamitsu, P. Debu, B. Peyaud, R. Turlay and B. Vallage. Measurement of the CP-violation parameter $\text{Re}(\epsilon'/\epsilon)$. *Phys. Rev. Lett.* **70**, 1203-1206 (1993).

G. Makoff, A. Barker, R. A. Briere, L. K. Gibbons, V. Papadimitriou, J. R. Patterson, S. V. Somalwar, Y. W. Wah, B. Winstein, R. Winston, H. Yamamoto, E. C. Swallow, G. J. Bock, R. Coleman, J. Enagonio, Y. B. Hsiung, E. Ramberg, K. Stanfield, R. Tschirhart, T. Yamanaka, G. D. Gollin, M. Karlsson, J. K. Okamitsu, P. Debu, B. Peyaud, R. Turlay and B. Vallage. Study of the decay $K_L \rightarrow \pi\pi^0 e \nu$. *Phys. Rev. Lett.* **70**, 1591-1594 (1993).

E. Ramberg, G. J. Bock, R. Coleman, J. Enagonio, Y. B. Hsiung, K. Stanfield, R. Tschirhart, T. Yamanaka, A. Barker, R. A. Briere, L. K. Gibbons, G. Makoff, V. Papadimitriou, J. R. Patterson, S. V. Somalwar, Y. W. Wah, B. Winstein, R. Winston, M. Woods, H. Yamamoto, E. C. Swallow, G. Blair, G. D. Gollin, M. Karlsson, J. K. Okamitsu, P. Debu, B. Peyaud, R. Turlay and B. Vallage. Simultaneous measurement of K_S and K_L decays into $\pi^+ \pi^- \gamma$. *Phys. Rev. Lett.* **70**, 2525-2528 (1993).

E. Ramberg, G. J. Bock, R. Coleman, J. Enagonio, Y. B. Hsiung, K. Stanfield, R. Tschirhart, T. Yamanaka, A. Barker, R. A. Briere, L. K. Gibbons, G. Makoff, V. Papadimitriou, J. R. Patterson, S. V. Somalwar, Y. W. Wah, B. Winstein, R. Winston, M. Woods, H. Yamamoto, E. C. Swallow, G. Blair, G. D. Gollin, M. Karlsson, J. K. Okamitsu, P. Debu, B. Peyaud, R. Turlay and B. Vallage. Measurement of the CP-violation parameter $\eta_{+\gamma}$ in neutral kaon decays. *Phys. Rev. Lett.* **70**, 2529-2532 (1993).

- D. Harris, G. D. Gollin, E. M. Collins et al. A limit on the branching ratio of $K_L \rightarrow \pi^0 \mu^+ \mu^-$. Phys. Rev. Lett. 71, 3914(1993).
- D. Harris, G. D. Gollin et al. A limit on the branching ratio of $K_L \rightarrow \pi^0 e^+ e^-$. Phys. Rev. Lett. 71, 3918(1993).
- K. S. McFarland, E. Collins, G. D. Gollin et al. Measurement of the branching ratio of $\pi^0 \rightarrow e^+ e^-$ from π^0 produced by $K_L \rightarrow \pi^0 \pi^0 \pi^0$ decays in flight. Phys. Rev. Lett. 71, 31-34 (1993).
- P. Krolak, E. M. Collins, G. D. Gollin et al. A limit on the lepton family number violating process $\pi^0 \rightarrow \mu e$. Phys. Lett. B 320, 407-410 (1994).
- P. Gu et al. Measurement of the branching ratio and a study of CP for the leptonic decay $K_L \rightarrow e^+ e^- e^+ e^-$. Phys. Rev. Lett. 72, 3000-3003 (1994).
- M Weaver et al. Limit on the branching ratio of $K_L \rightarrow \pi^0 \nu \bar{\nu}$. Phys. Rev. Lett. 73, 2169-2172 (1994).
- T. Nakaya et al. Measurement of the branching ratio of $K_L \rightarrow e^+ e^- \gamma \gamma$. Phys. Rev. Lett. 73, 2169-2172 (1994).
- D. Roberts et. al. Search for the decay $K_L \rightarrow \pi^0 \pi^0 \gamma$. Phys. Rev. D 50, 1874-1878 (1994).
- E. J. Ramberg, E. M. Collins, G. D. Gollin et al. Polarization of Λ and $\bar{\Lambda}$ produced by 800 GeV protons. Phys. Lett. B 338, 403-408 (1994).
- M.B. Spencer et al. A measurement of the branching ratio and form factor of $K_L \rightarrow \mu^+ \mu^- \gamma$. Phys. Rev. Lett. 74, 3323-3326 (1995).
- B. Schwingenheuer et al. CPT tests in the neutral kaon system. Phys. Rev. Lett. 74, 4376-4379 (1995).
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