Paul E. Reimer

Curriculum Vitae

Degrees	**Institution**	**Date**
Ph.D.	University of Illinois, Urbana, Illinois	October 1996
M.S.	University of Illinois, Urbana, Illinois	August 1987
B.A.	Bethel College, N. Newton, Kansas	December 1985

Professional Experience		
Postdoctoral Research Associate	Los Alamos National Laboratory	1996-present
Research Assistant	University of Illinois	1987-1996
Teaching Assistant	University of Illinois	1986-1987
Research Intern	General Motors Research	1986
Student Research Participant	Argonne National Laboratory	1986
Student Research Participant	Oak Ridge National Laboratory	1985

Publications in Journals

(⇒ indicates publications in which PER made significant contributions)

J.C. Peng, G.T. Garvey, T.C. Awes, M.E. Beddo, M.L. Brooks, C.N. Brown, J.D. Bush, T.A. Carey, T.H. Chang, W.E. Cooper, C.A. Gagliardi, D.F. Geesaman, E.A. Hawker, X.C. He, L.D. Isenhower, S.B. Kaufman, D.M. Kaplan, P.N. Kirk, D.D. Koetke, G. Kyle, D.M. Lee, W.M. Lee, M.J. Leitch, N. Makins, J.M. Moss, B.A. Mueller, P.M. Nord, B.K. Park, V. Papavassiliou, G. Petitt, P.E. Reimer, M.E. Sadler, J. Selden, P.W. Stankus, W.E. Sondheim, T.N. Thompson, R.S. Towell, M.A. Vasiliev Z.F. Wang, J.C. Webb, J.L. Willis, D.K. Wise, G.R. Young, *$\bar{d}/\bar{u}$ Asymmetry and the Origin of the Nucleon Sea*, To Be Published in Phys. Rev. D.

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⇒ C. Evangelista, A. Palano, D. Drijard, N.H. Hamann, R.T. Jones, B. Mouëllic, S. Ohlsson, J.-M. Perreau, W. Eyrich, M. Moosburger, S. Pomp, F. Stinzing, H. Fischer, J. Franz, E. Rössle, H. Schmitt, H. Wirth, A. Buzzo, K. Kirsebom, M. Lo Vetere, M. Macrì, M. Marinelli, S. Passaggio, M.G. Pia, A. Pozzo, E. Robutti, A. Santroni, P.T. Debevec, R.A. Eisenstein, P.G. Harris, D.W. Hertzog, S.A. Hughes, P.E. Reimer, J. Ritter, R. Geyer, K. Kilian, W. Oelert, K. Röhrich, M. Rook, O. Steinkamp, H. Korsmo, B. Stugu, T. Johansson, *Measurement of the $\overline{p}p \to K_sK_s$ Reaction from 0.6 to 1.9 GeV/c*, Phys. Rev. **D56** 3803 (1997).

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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, H. Wirth, *Search for Narrow* $\overline{p}p$ *Resonances in the Reaction* $\overline{p}p \to \overline{p}p\pi^+\pi^-$*,* Z. Phys. **C** 475 (1996).

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D. Babusci, S. Bianco, R. Casaccia, L. Daniello, F.L. Fabbri, M. Giardoni, M. Lindozzi, L. Passamonti, V. Russo, S. Sarwar, L. Votano, A. Zallo, L.E. Casano, M. Capogni, A. D'Angelo, D. Moricciani, F. Ghio, B. Girolami, D. Hertzog, S. Hughes, P.E. Reimer, R. Tayloe, *Lead/scintillating fiber electromagnetic calorimeters with* $4.8\%/\sqrt{E[GeV]}$ *energy resolution in the 20-80 MeV range*, Nuc. Instr. Meth. **A332** 444 (1993).

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⇒ A.B. Balantekin, and P.E. Reimer, *Determination of an effective radius from the gamma-ray multiplicities in fusion reactions.* Phys. Rev. **C33** 379 (1986).

Conference and Workshop Presentations
(⇒ indicates an invited talk)

⇒ P.E. Reimer, *QCD: Bound States*, Fermilab Users' Meeting, Batavia, Illinois, 13-14 July, 1998.

P.E. Reimer, *Measurement of the Light Antiquark Flavor Asymmetry in the Nucleon Sea: FNAL E866* Pheno-CETQ Symposium '98: From Non-Perturbative QCD to New Physics, Madison, Wisconsin, 23-26 March, 1998.

P.E. Reimer *et al.*, *A Preliminary Measurement of the* $\overline{u}/\overline{d}$ *Asymmetry in the Proton Sea,* **AIP Conference Proceedings 412: Intersections between Particle and Nuclear Physics,** T.W. Donnelly, ed., Big Sky, Montana, May 1997 (Woodbury, NY: AIP Press, 1997) 643.

⇒ P.E. Reimer, *Measuring the Asymmetry of the Nucleon Sea: Fermilab E866*, International Workshop on the Deep Inelastic Structure of Nuclei, Thomas Jefferson National Accelerator Facility, Newport News, Virginia, 12-14 December 1996.

P.E. Reimer *et al.*, *An Experimental Study of Exclusive Meson Production in* $\overline{p}p$ *Annihilations at Low Energy,* **Baryons '95: Proceedings of the** 7^{th} **International Conference on the Structure of Baryons,** B.F. Gibson, *et al.* eds., Sante Fe, New Mexico, 3-7 October 1995 (Singapore: World Scientific, 1996) 465-68.

⇒ P.E. Reimer, *The JETSET Data Acquisition System,* **Meson Production, Interaction, and Decay,** A. Magiera, W. Oelert, and E. Grosse, eds., Cracow, 6-11 May 1991, (Singapore: World Scientific, 1919) 292-98.

Seminars

A Measurement of the $\overline{d}/\overline{u}$ Asymmetry in the Nucleon Sea, High Energy Physics Seminar, University of Virginia, Charlottesville, Virginia, April 8, 1998.

Light Antiquark Flavor Asymmetry in the Nucleon: FNAL E866, NPP Seminar, Los Alamos National Laboratory, Los Alamos, New Mexico, 13 March 1998.

What We do in High Energy Physics, Fall Festival Natural Sciences Seminar, Bethel College, N. Newton, Kansas, 12 October 1996.

Results from the Jetset Antiproton Experiment at CERN-LEAR with S. Hughes, Nuclear Physics Seminar, University of Illinois, Urbana, Illinois, 13 February 1996.

Search for Exotic Mesons with Jetset at LEAR-CERN Argonne National Laboratory, Argonne, Illinois, 15 February 1996.

Search for Exotic Mesons with Jetset at LEAR-CERN Los Alamos National Laboratory, Los Alamos, New Mexico, 19 January 1996.

Search for Exotic Mesons with Jetset at LEAR-CERN Fermi National Accelerator Laboratory, Batavia, Illinois, 18 December 1995.

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R.S. Towell *et al.*, *New Results from Fermilab E866: Flavor Asymmetry in the Nucleon Sea and Nuclear Effects in J/ψ Production*, (Moriond, France: March 1998).

M.A. Vasiliev *et al.*, *Measurement of the Flavor Asymmetry in the Nucleon Sea,* Lake Louise Winter Institute on Quantum Chromodyanmics, Lake Louise, Alberta, Feb, 1998.

R.E. Tribble *et al.*, *Measurement of the $\bar{u}/\bar{d}$ Assymetry in the Proton,* ISS97, Tashkent, Oct, 1997.

E.A. Hawker *et al.*, *Measuring the $\bar{u}/\bar{d}$ Asymmetry in the Proton Sea: Fermilab E866*, (Moriond, France: March 1997).

M. LoVetere *et al.*, *$\phi\phi$ Excitation-Function at LEAR,* Nucl. Phys. **B S56A** 256-61 (1997).

M. LoVetere *et al.*, *$\phi\phi$ Associated Production in $\overline{p}p$ Annihilation from Jetset,* **Third Biennial Workshop on Nucleon-Antinucleon Interactions (NAN '95),** (Moscow: October 1995) Phys. At. Nucl. **59** 1444 (1996).

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T. Johansson *et al.*, *The Jetset Experiment at LEAR,* **Proceedings of the RCNP International Mini-Wrokshop on Precision Study of Hadron and Nuclear Physics with Photon Detectors,** KEK-Osaka, Japan, Nov, 1993.

S. Hughes *et al.*, *An Experimental Study of $\overline{p}p$ Annihilations to Strange Mesons,* **AIP Conference Proceed-**

ings 338: Intersections between Particle and Nuclear Physics, S.J. Seestrom, ed., St. Petersburg, Florida, June 1994, (Woodbury, NY: AIP Press, 1994) 476.

R. Tayloe *et al.*, *New reslts from the PS185 experiment at LEAR*, **AIP Conference Proceedings 338: Intersections between Particle and Nuclear Physics,** S.J. Seestrom, ed., St. Petersburg, Florida, June 1994, (Woodbury, NY: AIP Press, 1994) 445.

T.D. Jones *et al.*, *Review of JetSet and* $(g-2)_\mu$ *Calorimetry,* **SciFi 93, Workshop on Scintillating Fiber Detectors,** edited by A.D. Bross, R.C. Ruchti, M.R. Wayne, University of Notre Dame, 24-28 October 1993, (World Scientific, 1995).

H. Korsmo *et al.*, *Results from* $\bar{p}p \rightarrow \phi\phi$ *at Jetset,* **Procedings of the International Europhysics Conference on High Energy Physics - HEP '93,** J. Carr and M. Perrottet, eds., (Marseilles, France: 22 - 28 Jul 1993).

M-G. Pia *et al.*, *Recent Experimental Results On Meson Spectroscopy From Jetset*, **Second Biennial Workshop on Nucleon-Antinucleon Physics (NAN '93),** (Moscow: September 1993) Phys. At. Nucl. **57** (1994) 1503.

O. Steinkamp *et al.*, *Results from* $\bar{p}p \rightarrow \phi\phi$, 5^{th} **International Conference on Hadron Spectroscopy: Hadrons '93,** A. Taroni,ed., (Como, Italy: 21-25 June 1993) Nuovo Cimento, **A107** (1994) 2329.

K.L. Röhrich *et al.*, *Results from* $\bar{p}p \rightarrow \phi\phi$ *Near Threshold*, **Proceedings of the Thirteenth International Conference on Particles and Nuclei,** ed. A. Pascolini (Perugia: 28 June-2 July 1993) World Scientific: Singapore.

M. Macri *et al.*, *Proton-Antiproton Annihilations to* $\phi\phi$ *mesons: Results from Jetset at LEAR*, **Second Biennial Conference on Low-Energy Antiproton Physics (LEAP '92),** (Courmayeur, Italy: September 1992) Nuc. Phys. **A558**, (1993) 27c.

D. Hertzog *et al. Early results from the JETSET experiment,* **Fourth International Conference on Hadron Spectroscopy**, (College Park, Maryland: Aug. 1991) 257.

D. Bassi *et al.*, *Status of the JETSET (PS202) experiment at CERN-LEAR,* **Workshop on nucleon-antinucleon interactions,** Y. Kalashnikova, L. Kondratyuk, and N. Smorodinskaya, eds. (Moscow: 8-11 July 1991) Sov. J. of Nulc. Phys. **55**, 827 (1992).

P. Harris *et al.*, *First results from the JETSET experiment at LEAR,* **Fourth Conference on the Intersections bewteen Particle and Nuclear Physics** (Tucson, AZ: 24-29 May 1991) 388 (1992).

S. Bianco *et al.*, *High-resolution electromagnetic Pb-SCIFI calorimetry: An investigation on fibres and tests with low-energy photons* **Fifth Pisa Meeting on Advanced Detectors** A. Baldini, A. Scribano, and G. Tonlli, eds. (La Biodola, Italy: 26-31 May 1991) Nuc. Instr. Meth. **A315**, 322c (1992).

D. Babusci *et al.*, *Performances of head-on Pb-SCIFI calorimetric modules,* **Workshop on physics and detectors for DAPHNE** (Frascati, Italy: 9 - 12 Apr 1991)

D.W. Hertzog *et al.*, *High-resolution Pb/SciFi calorimetry: perfromance and radation damage studies,* **First International Conference on Calorimetry in High Energy Physics,** (Batavia, IL: 29 October - 1 November, 1990) 135 (1991)

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N. Hamann *et al.*, *First antiproton interactons with the hydgron cluster jet target at LEAR,* **First Biennial Conf. on Low-Energy Antiproton Physics (LEAP 90)** (Stockholm, Sweeden: 2-6 July 1990) 231-240

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D.W. Hertzog *et al.*, *Can a Pb/SCIFI calorimeter survive the SSC?* **Workshop on Radiation Hardness of Plastic Scintillator** (Flordia State University: 19-21 March 1990)

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Internal and Technical Reports

G. Garvey, R. Towell, M. Leitch, and P. Reimer *More Thoughts on Rate Dependence*, (7 Nov 1997).

P.E. Reimer, R. Towell, and M. Leitch, *Thoughts on Rate Dependence*, (31 Oct 1997).

P.E. Reimer, *Extracting $\bar{d}/\bar{u}$ from the Measured Cross Section Ratios*, (23 Oct 1997).

P.E. Reimer, *Status of the K_sK_s analysis and backgrounds present*, Jetset Note 06/95 (5 Sept 1995).

P.E. Reimer, *Z efficiency of the barrel tracker in data and Monte Carlo*, Jetset Note 03/95 (22 Aug 1995).

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P.E. Reimer, *EPIO tape format in 32-bits and Jetset* (1990).

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S. Ohlsson, and P.E. Reimer, *Valet to VAX event stream using Copy_block and MBM*, Jetset Note 13/90 (30 August 1990).

P.E. Reimer *A resonance search in the $\overline{p}p \rightarrow K_sK_s$ and $\overline{p}p \rightarrow K_sK^*$ Channels with the Jetset Detector at LEAR*, Preliminary Examination (27 April 1990).

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P.E. Reimer, *Gamma Veto Efficiency in Jetset* (22 Feb 1990).

P.E. Reimer, *Run Control Software for the Jetset Experiment*, Jetset Note 13/90 (2 Nov 1989).

P.E. Reimer, R. Tayloe, H. Hertzog, *More on "More on the Trigger Pixel Saga"*, Jetset Note 09/89 (1 March 1989).