

James J. Kelly
 Department of Physics
 University of Maryland
 College Park, MD 20742

Education:

1977 BS (with Honors), California Institute of Technology
 1981 PhD in Physics, Massachusetts Institute of Technology

Employment:

1976 - 1977	Summer Student	Dept. of Nuclear Chemistry, Brookhaven National Laboratory
1976 - 1977	Teaching Assistant	California Institute of Technology
1977 - 1981	Research Assistant	Massachusetts Institute of Technology
1981 - 1983	Research Associate	Massachusetts Institute of Technology
1983 - 1984	J. Robert Oppenheimer Fellow	Los Alamos National Laboratory
1984 - 1989	Assistant Professor	University of Maryland
1989 - 1999	Associate Professor	University of Maryland
1999 - present	Professor	University of Maryland

Visiting positions:

1991 - 1992 Visiting Scientist NIKHEF (Amsterdam)

Honors:

1973 - 1977 Alicia Patterson Memorial Scholarship (Newsday)
 1983 - 1984 J. Robert Oppenheimer Fellowship

Professional service:

1984 - referee for PRC, PRL, Nucl. Phys. A, Eur. Phys. J., J. Phys. G, NSF, CRDF
 textbook reviews for MacMillan, Academic Press, Thomson Brooks/Cole
 1986 - 1990 IUCF User's Group Executive Committee: chair-elect 1988, chair 1988-89
 1987 faculty advisor in US-USSR Student Exchange Program
 1989 - 1992 LAMPF Program Advisory Committee
 2000 NSTAR2000 conference organizing committee
 2006 - Editorial Board, Physical Review C

PhD theses directed

1990	H. Seifert	Energy dependence of the effective interaction for nucleon-nucleus scattering
1991	A. E. Feldman	Neutron transition densities of ^{48}Ca
1996	T. M. Payerle	Pion absorption on ^7Li at 165 MeV
2003	N. A. Savvinov	Charge form factor of the neutron through $\vec{d}(\vec{e}, e'n)$ at $Q^2 = 1.0 \text{ (GeV/c)}^2$

Books

1. Graduate Mathematical Physics, J. J. Kelly, (Wiley-VCH, Weinheim, 2006), ISBN 3-527-40637-9

Refereed publications

1. J. J. Kelly and R. M. Lambrecht, Positron annihilation in n - and p -type, B - and P -doped silicon crystals of 100 and 111 orientations, Phys. Lett. 60A, 475 (1977)
2. J. J. Kelly and R. M. Lambrecht, ANNPEAK: A program for lineshape analysis of Doppler broadening of positron annihilation photons, Adv. in Chem. 175, 271 (1979)
3. J. Kelly *et al.*, Signatures of density dependence in the two-nucleon effective interaction near 150 MeV, Phys. Rev. Lett. 45, 1212 (1980)

4. B. E. Norum *et al.*, Inelastic electron scattering from ^{18}O , Phys. Rev. C 25, 1778 (1982)
5. B. D. Anderson *et al.*, Gamow-Teller strength in the $^{18}\text{O}(p,n)^{18}\text{F}$ reaction at 135 MeV, Phys. Rev. C 27, 1387 (1983)
6. R. W. Lourie *et al.*, Inelastic electron scattering from ^9Be , Phys. Rev. C 28, 489 (1983)
7. F. W. Hersman *et al.*, A test of the interacting boson approximation using electron scattering, Phys. Lett. 132B, 47 (1983)
8. A. Fazely *et al.*, Cross section and analyzing power for the isovector “stretched” 6^- state in the $^{28}\text{Si}(p,n)^{28}\text{P}$ reaction, Nucl. Phys. A 443, 29 (1985)
9. F. Petrovich *et al.*, Spin-current effects in inelastic scattering from nuclei, Phys. Lett. 165B, 19 (1985)
10. T. N. Buti *et al.*, Electroexcitation of isoscalar states in ^{16}O , Phys. Rev. C 33, 755 (1986)
11. J. Kelly *et al.*, Neutron transition density for the lowest 2^+ state of ^{18}O , Phys. Lett. 169 B, 157 (1986)
12. R. W. Lourie *et al.*, Reaction $^{12}\text{C}(e,e'p)$ in the dip region, Phys. Rev. Lett. 56, 2364 (1986)
13. F. W. Hersman *et al.*, Inelastic electron scattering from collective levels of ^{154}Gd , Phys. Rev. C 33, 1905 (1986)
14. D. M. Manley *et al.*, Electroexcitation of M4 transition in ^{17}O and ^{18}O , Phys. Rev. C 34, 1214 (1986)
15. C. E. Hyde-Wright *et al.*, Electroexcitation of 4^- states in ^{16}O , Phys. Rev. C 35, 880 (1987)
16. D. M. Manley and J. J. Kelly, Reply to “Comment on ‘Electroexcitation of M4 transition in ^{17}O ’”, Phys. Rev. C 36, 1646 (1987)
17. D. M. Manley *et al.*, High-resolution inelastic electron scattering from ^{17}O , Phys. Rev. C 36, 1700 (1987)
18. P. E. Ulmer *et al.*, Missing-energy dependence of the separated response functions for the reaction $^{12}\text{C}(e,e'p)$, Phys. Rev. Lett. 59, 2259 (1987)
19. J. J. Kelly, Intrinsic radial sensitivity of nucleon inelastic scattering, Phys. Rev. C 37, 520 (1988)
20. N. Kalantar-Nayestanaki *et al.*, Magnetic structure of ^{17}O at high momentum, Phys. Rev. Lett. 60, 1707 (1988)
21. J. J. Kelly, Quadrupole scattering of 135 MeV protons by ^9Be , Phys. Rev. C 38, 1490 (1988)
22. J. J. Kelly *et al.*, Density dependence in the two-nucleon effective interaction at 135 MeV, Phys. Rev. C 39, 1222 (1989)
23. J. J. Kelly, Empirical effective interaction for 135 MeV nucleons, Phys. Rev. C 39, 2120 (1989)
24. D. M. Manley *et al.*, Electroexcitation of rotational bands in ^{18}O , Phys. Rev. C 41, 448 (1990)
25. J. J. Kelly *et al.*, Effective interactions and nuclear structure using 180 MeV protons. I. $^{16}\text{O}(p,p')$, Phys. Rev. C 41, 2504 (1990)
26. Q. Chen *et al.*, Effective interactions and nuclear structure using 180 MeV protons. II. $^{28}\text{Si}(p,p')$, Phys. Rev. C 41, 2514 (1990)
27. J. J. Kelly *et al.*, Effective interactions and nuclear structure using 180 MeV protons. III. $^{30}\text{Si}(p,p')$, Phys. Rev. C 41, 2525 (1990)
28. J. J. Kelly *et al.*, Effective interaction for $^{16}\text{O}(p,p')$ at $E_p = 318$ MeV, Phys. Rev. C 43, 1272 (1991)
29. J. P. Glickman *et al.*, Electron scattering from ^9Be , Phys. Rev. C 43, 1740 (1991)
30. S. Dixit *et al.*, Structure of ^9Be from proton scattering at 180 MeV, Phys. Rev. C 43, 1758 (1991)

31. B. S. Flanders *et al.*, Empirical density-dependent effective interaction for nucleon-nucleus scattering at 500 MeV, Phys. Rev. C 43, 2103 (1991)
32. D. M. Manley *et al.*, Electroexcitation of negative-parity states in ^{18}O , Phys. Rev. C 43, 2147 (1991)
33. J. J. Kelly *et al.*, Neutron and proton transition densities from $^{32,34}\text{S}(p, p')$ at $E_p = 318$ MeV. I. Isoscalar densities for ^{32}S , Phys. Rev. C 44, 1963 (1991)
34. M. A. Khandaker *et al.*, Neutron and proton transition densities from $^{32,34}\text{S}(p, p')$ at $E_p = 318$ MeV. II. Neutron transition densities for ^{34}S , Phys. Rev. C 44, 1978 (1991)
35. J. J. Kelly *et al.*, Effective interaction for $^{40}\text{Ca}(p, p')$ at $E_p = 318$ MeV, Phys. Rev. C 44, 2602 (1991)
36. S. Boffi, M. Radici, J. J. Kelly, and T. M. Payerle, Neutron knockout and isobar excitation in quasi-free electron scattering, Nucl. Phys. A 539, 597 (1992)
37. J. J. Kelly, Microscopic coupled-channels analysis of $^9\text{Be}(p, p')$ for $100 \leq E_p \leq 500$ MeV, Phys. Rev. C 46, 711 (1992)
38. H. Seifert *et al.*, Effective interaction for $^{16}\text{O}(p, p')$ and $^{40}\text{Ca}(p, p')$ at $E_p = 200$ MeV, Phys. Rev. C 47, 1615 (1993)
39. J. J. Kelly *et al.*, Neutron transition densities from $^{88}\text{Sr}(p, p')$ at $E_p = 200$ MeV, Phys. Rev. C 47, 2146 (1993)
40. P. Markowitz *et al.*, Measurement of the magnetic form factor of the neutron, Phys. Rev. C 48, R5 (1993)
41. J. J. Kelly and S. J. Wallace, Comparison between relativistic and nonrelativistic models of the nucleon-nucleon effective interaction. I. Normal-parity isoscalar transitions, Phys. Rev. C 49, 1315 (1994)
42. A. E. Feldman *et al.*, Neutron transition densities for ^{48}Ca from proton scattering at 200 and 318 MeV, Phys. Rev. C 49, 2068 (1994)
43. L. J. de Bever *et al.*, Proton scattering off ^9Be and the final-state interaction in the $(e, e'p)$ and (γ, p) reactions on ^{10}B , Nucl. Phys. A 579, 13 (1994)
44. T. Eden *et al.*, Performance of a neutron polarimeter to measure the electric form factor of the neutron, Nucl. Instru. Meth. A 338, 432 (1994)
45. T. Eden *et al.*, Electric form factor of the neutron from the $^2\text{H}(e, e'n)^1\text{H}$ reaction at $Q^2 = 0.255$ (GeV/c) 2 , Phys. Rev. C 50, R1749 (1994)
46. I. Bobeldijk *et al.*, High-momentum protons in ^{208}Pb , Phys. Rev. Lett. 73, 2684 (1994)
47. K. Beard *et al.*, Measurement of the polarization of a pulsed electron beam with a Möller polarimeter in the coincidence mode, Nucl. Instru. Meth. A 361, 46 (1995)
48. J. J. Kelly, Nucleon knockout by intermediate energy electrons, Adv. Nucl. Phys. 23, 75 (1996)
49. B. A. Raue *et al.*, Analyzing powers for $^1\text{H}(\pi^+, \pi^+p)$ at $T_\pi = 165$ and 240 MeV, Phys. Rev. C 53, 1005 (1996)
50. J. J. Kelly, Nuclear transparency to intermediate-energy protons, Phys. Rev. C 54, 2547 (1996)
51. J. J. Kelly, Gauge ambiguities in $(\vec{e}, e'\vec{N})$ reactions, Phys. Rev. C 56, 2672 (1997)
52. R. Madey *et al.*, 0^+ to 0^- transition in the $^{16}\text{O}(p, n)^{16}\text{F}$ reaction at 79 MeV, Phys. Rev. C 56, 3210 (1997)
53. B. D. Milbrath *et al.*, Comparison of polarization observables in electron scattering from the proton and deuteron, Phys. Rev. Lett. 80, 452 (1998)

54. R. J. Woo, Measurement of the induced proton polarization P_n in the $^{12}\text{C}(e, e'\vec{p})$ reaction, Phys. Rev. Lett. 80, 456 (1998)
55. I. Niculescu *et al.*, Calibration of a neutron polarimeter to measure the electric form factor of the neutron, IEEE Transactions on Nuclear Science 45, 68 (1998)
56. T. Eden *et al.*, Neutron detection efficiency for the measurement of the $^2\text{H}(e, e'n)^1\text{H}$ cross section, Nucl. Instru. Meth. A 405, 60 (1998)
57. L. J. de Bever *et al.*, Radial dependence of the nucleon effective mass in ^{10}B , Phys. Rev. Lett. 80, 3924 (1998)
58. D. J. Abbott *et al.*, Quasifree $(e, e'p)$ reactions and proton propagation in nuclei, Phys. Rev. Lett. 80, 5072 (1998)
59. G. Warren *et al.*, Induced proton polarization for π^0 electroproduction at $Q^2 = 0.126 \text{ GeV}^2/c^2$ around the $\Delta(1232)$ resonance, Phys. Rev. C 58, 3722 (1998)
60. L. C. Alexa *et al.*, Measurements of the deuteron elastic structure function $A(Q^2)$ for $0.7 \leq Q^2 \leq 6.0 \text{ (GeV/c)}^2$ at Jefferson Laboratory, Phys. Rev. Lett. 82, 1374 (1999)
61. J. J. Kelly, Channel coupling in $A(\vec{e}, e'\vec{N})B$ reactions, Phys. Rev. C 59, 3256 (1999)
62. J. J. Kelly, Effects of spinor distortion and density-dependent form factors upon quasifree $^{16}\text{O}(\vec{e}, e'\vec{p})$, Phys. Rev. C 60, 044609 (1999)
63. J. J. Kelly, Measuring longitudinal amplitudes for electroproduction of pseudoscalar mesons using recoil polarization in parallel kinematics, Phys. Rev. C 60, 054611 (1999)
64. D. H. Barkhuff *et al.*, Measurement of recoil proton polarizations in the electrodisintegration of deuterium by polarized electrons, Phys. Lett. B 470, 39 (1999)
65. M. K. Jones *et al.*, G_{Ep}/G_{Mp} ratio by polarization transfer in $\vec{e}p \rightarrow e\vec{p}$, Phys. Rev. Lett. 84, 1398 (2000)
66. J. Gao *et al.*, Dynamical relativistic effects in quasielastic $1p$ -shell proton knockout from ^{16}O , Phys. Rev. Lett. 84, 3265 (2000)
67. D. Dutta *et al.*, Separated spectral functions for the quasifree $^{12}\text{C}(e, e'p)$ reaction, Phys. Rev. C 61, 061602(R) (2000)
68. S. Malov *et al.*, Polarization transfer in the $^{16}\text{O}(\vec{e}, e'\vec{p})^{15}\text{N}$ reaction, Phys. Rev. C 62, 057302 (2000)
69. S. Dieterich *et al.*, Polarization transfer in the $^4\text{He}(\vec{e}, e'\vec{p})^3\text{H}$ reaction, Phys. Lett. B 500, 47 (2001)
70. C. Mertz *et al.*, Search for quadrupole strength in the electroexcitation of the $\Delta^+(1232)$, Phys. Rev. Lett. 86, 2963 (2001)
71. K. Wijesooriya *et al.*, Polarization measurements in high-energy deuteron photodisintegration, Phys. Rev. Lett. 86, 2975 (2001)
72. K. Aniol *et al.*, New measurement of parity violation in elastic electron-proton scattering and implications for strange form factors, Phys. Lett. B 509, 211 (2001)
73. N. Liyanage *et al.*, Dynamics of the $^{16}\text{O}(e, e'p)$ reaction at high missing energies, Phys. Rev. Lett. 86, 5670 (2001)
74. O. Gayou *et al.*, Measurements of the elastic electromagnetic form factor ratio $\mu G_{Ep}/G_{Mp}$ via polarization transfer, Phys. Rev. C 64, 038202 (2001)
75. M. G. Khayat *et al.*, Analyzing power reduction in quasifree pion-nucleon knockout reactions, Phys. Rev. C 64, 064606 (2001)

76. O. Gayou *et al.*, Measurement of G_{Ep}/G_{Mp} in $\bar{e}p \rightarrow e\bar{p}$ to $Q^2 = 5.6 \text{ GeV}^2$, Phys. Rev. Lett. 88, 092301 (2002)
77. K. Wijesooriya *et al.*, Polarization measurements in neutral pion photoproduction, Phys. Rev. C 66, 034614 (2002)
78. E. C. Schulte *et al.*, High energy angular distribution measurements of the exclusive deuteron photodisintegration reaction, Phys. Rev. C 66, 042201(R) (2002)
79. J. J. Kelly, Nucleon charge and magnetization densities from Sachs form factors, Phys. Rev. C 66, 065203 (2002)
80. D. Dutta *et al.*, Quasielastic $(e, e'p)$ reaction on ^{12}C , ^{56}Fe , and ^{197}Au , Phys. Rev. C 68, 064603 (2003)
81. S. Strauch *et al.*, Polarization transfer in the $^4\text{He}(\bar{e}, e'\bar{p})^3\text{H}$ reaction up to $Q^2 = 2.6 \text{ (GeV/c)}^2$, Phys. Rev. Lett. 91, 052301 (2003)
82. R. Madey *et al.*, Measurements of G_E^n/G_M^n from the $^2\text{H}(\bar{e}, e'\bar{n})^1\text{H}$ reaction to $Q^2 = 1.45 \text{ (GeV/c)}^2$, Phys. Rev. Lett. 91, 122002 (2003)
83. X. Zheng *et al.*, Precision measurement of the neutron spin asymmetry A_1^n and spin-flavor decomposition in the valence quark region, Phys. Rev. Lett. 92, 012004 (2004)
84. G. Warren *et al.*, Measurement of the electric form factor of the neutron at $Q^2 = 0.5$ and $1.0 \text{ GeV}^2/c^2$, Phys. Rev. Lett. 92, 042301 (2004)
85. J. Alcorn *et al.*, Basic instrumentation for Hall A at Jefferson Lab, Nucl. Instr. Meth. A 522, 294 (2004)
86. G. Laveissière *et al.*, Backward electroproduction of π^0 mesons on the proton in the region of nucleon resonances at four momentum squared $Q^2 = 1.0 \text{ GeV}^2$, Phys. Rev. C 69, 045203 (2004)
87. K. Aniol *et al.*, Parity-violating electroweak asymmetry in $\bar{e}p$ scattering, Phys. Rev. C 69, 065501 (2004)
88. G. Laveissière *et al.*, Measurement of the generalized polarizabilities of the proton in virtual Compton scattering at $Q^2 = 0.92$ and 1.76 GeV^2 , Phys. Rev. Lett. 93, 122001 (2004)
89. K. G. Fissum *et al.*, Dynamics of the quasielastic $^{16}\text{O}(e, e'p)$ reaction at $Q^2 \approx 0.8 \text{ (GeV/c)}^2$, Phys. Rev. C 70, 034606 (2004)
90. X. Zheng *et al.*, Precision measurement of the neutron spin asymmetries and spin-dependent structure functions in the valence quark region, Phys. Rev. C 70, 065207 (2004)
91. J. J. Kelly, Simple parametrization of nucleon form factors, Phys. Rev. C 70, 068202 (2004)
92. F. Benmokhtar *et al.*, Measurement of the $^3\text{He}(e, e'p)pn$ reaction at high missing energies and momenta, Phys. Rev. Lett. 94, 082305 (2005)
93. M. M. Rvachev *et al.*, Quasielastic $^3\text{He}(e, e'p)^2\text{H}$ at $Q^2 = 1.5 \text{ GeV}^2$ for recoil momenta up to 1 GeV/c , Phys. Rev. Lett. 94, 192302 (2005)
94. V. Punjabi *et al.*, Proton elastic form factor ratios to $Q^2 = 3.5 \text{ GeV}^2$ by polarization transfer, Phys. Rev. C 71, 055202 (2005)
95. J. J. Kelly, Relativistic distorted wave impulse approximation analysis of $^{12}\text{C}(e, e'p)$ for $Q^2 < 2 \text{ (GeV/c)}^2$, Phys. Rev. C 71, 064610 (2005)
96. J. J. Kelly, Influence of the Dirac sea on proton electromagnetic knockout, Phys. Rev. C 72, 014602 (2005)
97. J. J. Kelly *et al.*, Recoil polarization for Δ excitation in pion electroproduction, Phys. Rev. Lett. 95, 102001 (2005)

98. J. J. Kelly, Accuracy of traditional Legendre estimators of quadrupole ratios for the $N \rightarrow \Delta$ transition, *Phys. Rev. C* 72, 048201 (2005)
99. G. MacLachlan *et al.*, The ratio of proton electromagnetic form factors via recoil polarimetry at $Q^2 = 1.13$ (GeV/c)², *Nucl. Phys. A* 764, 261 (2006)
100. B. Plaster *et al.*, Measurements of the neutron electric to magnetic form factor ratio G_{En}/G_{Mn} via the $^2\text{H}(\vec{e}, e'\vec{n})^1\text{H}$ reaction to $Q^2 = 1.45$ (GeV/c)², *Phys. Rev. C* 73, 025205 (2006)
101. J. J. Kelly *et al.*, Recoil polarization measurements for neutral pion electroproduction at $Q^2 = 1$ (GeV/c)² near the Delta resonance, nucl-ex/0509004 (submitted to *Phys. Rev. C*)

Conference proceedings

1. J. Kelly *et al.*, Some results of a comparison of electron and 135 MeV proton scattering from the oxygen isotopes, in Workshop on Nuclear Structure with Intermediate Energy Probes, LASL Report No. LA-9303 (1980)
2. W. Bertozzi and J. J. Kelly, The common ground between hadronic and electromagnetic probes of nuclei, in *New Horizons in Electromagnetic Physics*, (Dept. of Physics, U. Va., 1983), pp. 430-461.
3. J. J. Kelly, Proton scattering to collective states: what we learn about the effective interaction in the nuclear medium, in *The Interaction Between Medium Energy Nucleons in Nuclei-1982*, AIP Conf. Proc. 97, 153 (1983)
4. J. J. Kelly and J. A. Carr, Implications of density dependence in the effective interaction for the excitation of spin modes, in *Spin Excitations in Nuclei*, ed. F. Petrovich *et al.* (Plenum, NY, 1984), pp. 253-265
5. J. A. Carr, F. Petrovich, and J. J. Kelly, Determination of nuclear transition densities with various probes, in *Neutron-Nucleus Collisions: A Probe of Nuclear Structure*, AIP Conf. Proc. 124, 230 (1985)
6. J. J. Kelly, Modeling direct reactions, in *Advanced Methods in the Evaluation of Nuclear Scattering Data*, Lecture Notes in Physics 236, 335 (Springer-Verlag, 1985)
7. J. J. Kelly, Effective density-dependent interactions for nucleon-nucleus scattering, in *Seminar Notes of the National Summer School in Nuclear Physics*, June 1985, ed. P. A. Treado (Georgetown University, 1985), p. 124.
8. J. J. Kelly, Comparison of electromagnetic and hadronic probes of nuclear structure, in *Nuclear Structure at High Spin, Excitation, and Momentum Transfer*, AIP Conf. Proc. 142, 27 (1986)
9. J. Kelly, Analysis of electron and hadron scattering by nuclei, in *Current Problems in Nuclear Physics*, Hellenic Physical Society Conference Series 1, 325 (1986)
10. J. J. Kelly, Complementarity between electromagnetic and hadronic probes of nuclear structure, in *Workshop on Relations Between Structure and Reactions in Nuclear Physics*, ed. D. H. Feng, M. Vallieres, and B. H. Wildenthal (World Scientific, Singapore, 1987), pp. 222-256
11. J. J. Kelly, Comparison between relativistic and nonrelativistic models of the nucleon-nucleon effective interaction, in *5th Workshop on Perspectives in Nuclear Physics at Intermediate Energies*, ed. S. Boffi, C. C. degli Atti, and M. Giannini (World Scientific, Singapore, 1992), pp. 197-217
12. J. M. Finn *et al.*, Neutron electromagnetic form factors, AIP Conf. Proc. 269, 137 (1993)
13. J. J. Kelly, Channel coupling in $(\vec{e}, e'\vec{N})$ reactions, in *proceedings of the Second Workshop on Electromagnetically Induced Two-Nucleon Emission* (University of Gent, Belgium, 1995), pp. 269-274
14. D. Potterveld *et al.*, Quasi-free $(e, e'p)$ reactions: the first look from CEBAF, in *proceedings of the 14th International Conference on Particles and Nuclei*, ed. C. E. Carlson and J. Domingo (World Scientific, Singapore, 1997), p. 155

15. R. Ent *et al.*, Proton propagation in nuclei as measured in the $(e, e'p)$ reaction, in proceedings of the Workshop on Electron-Nucleus Scattering, ed. O. Benhar and A. Fabrocini (Edizioni, Pisa, 1997), p. 377
16. D. Potterveld *et al.*, Recent results for $(e, e'p)$ reactions at Jefferson Lab, in proceedings of the International Conference on Perspectives in Hadronic Physics (1997)
17. D. Dutta *et al.*, Proton propagation through nuclei and the quasi-elastic reaction mechanism studied with $(e, e'p)$ reactions, in proceedings of the International Conference on Intersections between Particle and Nuclear Physics (1997)
18. J. J. Kelly, Effective interaction and neutron transition densities, in Nuclear Responses and Medium Effects, Frontiers Science Series (Universal Academy Press, Tokyo) 28, 197 (1999)
19. J. J. Kelly, Recoil polarization in electroproduction of mesons, in proceedings of Nuclear and Particle Physics with CEBAF at Jefferson Lab (Dubrovnik, 1998), Fizika B 8, 81 (1999)
20. A. J. Sarty *et al.*, Polarization and out-of-plane response in pion and eta electroproduction, in Excited Nucleons and Hadronic Structure, ed. V. D. Burkert, L. Elouadrhiri, J. J. Kelly, and R. C. Minehart, (World Scientific, Singapore, 2001), pp. 326-335
21. J. J. Kelly, Nucleon electromagnetic form factors, in Spin Structure of the Nucleon (ed. E. Steffens and R. Shanidze, Kluwer Academic Press, 2003), pp. 61-74
22. S. Fullani *et al.*, Polarization observables in the $N \rightarrow \Delta(1232)$ transition, in Spin Structure of the Nucleon (ed. E. Steffens and R. Shanidze, Kluwer Academic Press, 2003), pp. 221-234
23. J. J. Kelly, Nucleon electromagnetic form factors and densities, in SPIN2002: 15th International Spin Physics Symposium, AIP Conf. Proc. 675, 78-87 (2003)
24. B. Plaster *et al.*, The electric form factor of the neutron via recoil polarimetry up to $Q^2 = 1.47$ $(\text{GeV}/c)^2$, AIP Conf. Proc. 675, 625-629 (2003)
25. J. J. Kelly, Nucleon electromagnetic form factors and densities, in Intersections of Particle and Nuclear Physics, AIP Conf. Proc. 698, 393 (2003)
26. R. Madey *et al.*, Neutron electric form factor up to $Q^2 = 1.47$ $(\text{GeV}/c)^2$, in proceedings of Electron-Nucleus Scattering VII (Elba, 2002), Eur. Phys. J. A 17, 323 (2003)
27. T. Reichelt *et al.*, Measurement of the neutron electric form factor via recoil polarimetry, in proceedings of International Conference on Quark Nucleon Physics (Jülich, 2002), Eur. Phys. J. A 18, 181 (2003)
28. J. J. Kelly, Recoil polarization for neutral pion electroproduction near the Delta resonance, in proceedings of Nuclear and Particle Physics with CEBAF at Jefferson Lab (Dubrovnik, 2003), Fizika B 13, 81 (2004)

Invited talks

1. Proton scattering to collective states: what we learn about the effective interaction in the nuclear medium, Workshop on the Interaction Between Medium Energy Nucleons in Nuclei, Indiana University Cyclotron Facility, Bloomington, IN, Oct. 1982
2. Implications of density dependence in the effective interaction for the excitation of spin modes, Conference on Spin Modes in Nuclei, Telluride CO, March 1982
3. Neutron transition moments, Symposium on Transition Moments in Nuclei, Argonne National Lab, June 1985
4. Modeling direct reactions, Workshop on Advanced Methods in the Evaluation of Nuclear Scattering Data, Berlin, June 1985
5. Analysis of electron and hadron scattering by nuclei, Cretan Conference on Current Problems in Nuclear Physics, Crete, June 1985

6. Comparison of electromagnetic and hadronic probes of nuclear structure, 1985 IUCF Workshop on Nuclear Structure at High Spin, Excitation, and Momentum Transfer, Bloomington IN, Oct. 1985
7. Transition densities from (e, e') and (p, p') data, American Chemical Society Symposium on Nuclear Structure and Reactions, Los Angeles, Sept. 1988
8. Effective interactions and nuclear structure, Workshop on Physics with a Magnetic Spectrograph, Kernfysisch Versneller Instituut der Rijksuniversiteit, Groningen (Netherlands), Sept. 1989
9. Measurement of neutron transition densities, Oberjoch Meeting on Pion-Nuclear Physics, Oberjoch (Germany), Sept. 1991
10. Comparison between relativistic and nonrelativistic models of the nucleon-nucleon effective interaction, in 5th Workshop on Perspectives in Nuclear Physics at Intermediate Energies, Trieste, May 1991
11. Channel coupling in $(\vec{e}, e' \vec{N})$ reactions, Second Workshop on Electromagnetically Induced Two-Nucleon Knockout, Gent, May 1995
12. Recoil polarization in electroproduction of mesons, Nuclear and Particle Physics with CEBAF at Jefferson Lab, Dubrovnik, Nov. 1998
13. Effective interaction and neutron transition densities, RCNP Workshop on Nuclear Responses and Medium Effects, Osaka, Nov. 1998
14. Nucleon electromagnetic form factors, Xth Nato Advanced Spin Workshop, Yerevan (Armenia), July 2002
15. Nucleon electromagnetic form factors and densities, plenary talk at 15th International Spin Physics Symposium, Brookhaven National Lab, Sept. 2002
16. Nucleon charge and magnetization densities from Sachs form factors, Conference on the Intersections between Nuclear and Particle Physics, New York City, May 2003
17. Recoil-polarization response functions for neutral pion electroproduction near the Delta resonance, Nuclear and Particle Physics with CEBAF at Jefferson Lab, Dubrovnik, May 2003
18. Influence of the Dirac sea on nucleon electromagnetic knockout, Workshop on Spectroscopic Factors, European Center for Theoretical Studies in Nuclear Physics and Related Areas, Trento (Italy), May 2004
19. Response functions for Delta excitation, Gordon Research Conference on Photonuclear Reactions, Tilton NH, Aug. 2004

Seminars, colloquia, and special lectures

1. 1980-1984: seminars at Rutgers, Northwestern, U. Pittsburgh, LASL, LLNL, U. Georgia, FSU, UMD, Indiana U., MIT, UNH, U. Mass (Amherst)
2. Modeling direct reactions, seminar at MIT on April 9, 1985
3. Effective density-dependent interactions for nucleon-nucleus scattering, lecture at the National Summer School in Nuclear Physics on June 12, 1985
4. Radial sensitivity of nucleon inelastic scattering, colloquium at Kent State University on Jan. 23, 1986
5. Radial sensitivity of nucleon inelastic scattering, seminar at California Institute of Technology on April 11, 1986
6. Nucleon form factors, seminar at UMD on Sept. 22, 1988
7. Medium modifications of nucleon scattering, seminar at UCLA on Sept. 30, 1988
8. Empirical medium modifications for nucleon scattering, colloquium at Indiana University on Oct. 5, 1988

9. Effective interactions and nuclear structure deduced via proton scattering, seminar at UMD on Oct. 24, 1988
10. Synthesis of electromagnetic and hadronic probes of nuclear structure, seminar at Carnegie Mellon on April 6, 1989
11. Neutron transition densities deduced using empirical effective interactions, seminar at Catholic University on Nov. 28, 1989
12. Seeing neutrons within the nucleus, colloquium at Notre Dame on March 7, 1990
13. Empirical effective interaction for proton scattering, seminar at Rijksuniversiteit Utrecht on Oct. 2, 1991
14. Empirical effective interaction for proton scattering, seminar at NIKHEF-K (Amsterdam) on Oct. 24, 1991
15. Empirical effective interaction for proton scattering, seminar at Universite de Liege (Belgium) on Nov. 25, 1991
16. Effective interactions and transition densities for proton scattering from nuclei, OIO lectures at Zeist (Netherlands) on Dec. 16-17, 1991
17. Extraction of neutron transition densities from proton scattering data, seminar at NIKHEF-K (Amsterdam) on March 12, 1992
18. Effective interactions and nuclear structure from proton scattering, seminar at UVA on Oct. 5, 1992
19. Comparison between relativistic and nonrelativistic models of the nucleon-nucleon effective interaction, seminar at Ohio State University on Oct. 23, 1992
20. The $p(\vec{e}, e' \vec{N})\pi$ reaction with HARP, seminar at UMD on Feb. 3, 1993
21. The $(e, e'n)$ reaction, seminar at George Washington University on March 26, 1993
22. Comparison between relativistic and nonrelativistic models of the nucleon-nucleon effective interaction, seminar at Ohio University on June 3, 1993
23. Seeing neutrons within the nucleus, colloquium at Ohio University on June 4, 1994
24. Proton spectral functions from $(e, e'p)$ measurements, seminar at UMD on Nov. 17, 1994
25. Recoil polarization in electron scattering, seminar at Rutgers on Nov. 14, 1995
26. Recoil polarization in η electroproduction, seminar at Jefferson Lab on Oct. 12, 1996
27. Structure versus FSI at high momentum, seminar at Jefferson Lab on Feb. 21, 1997
28. Nucleon and nuclear structure using electromagnetic recoil polarization, colloquium at UMD on Oct. 27, 1998
29. Recoil polarization in electromagnetic production of mesons, seminar at Jefferson Lab on May 24, 1999
30. Nucleon charge and magnetization densities from Sachs form factors, seminar at UMD on May 17, 2002
31. Nucleon charge and magnetization densities from Sachs form factors, seminar at Jefferson Lab on June 21, 2002
32. Recoil polarization in pion electroproduction at the Delta resonance, seminar at George Washington University on Nov. 22, 2002
33. Response functions for Delta excitation at $Q^2 = 1$, seminar at Jefferson Lab on May 11, 2005