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<i>Biographical:</i>	born June 26, 1938 in Bryn Mawr, PA		
<i>Education:</i>	B.S. Physics (Honors)	Caltech	1960
	Ph.D. Physics	Caltech	1967
<i>Employment:</i>	Research Fellow	Caltech	5/67-2/68
	Research Associate	Stanford University	2/68/9-69
	Assistant Professor	Princeton University	9/69-6/71
	Assistant Professor	University of Washington	8/71-9/72
	Associate Professor	University of Washington	9/72-9/75
	Professor	University of Washington	9/75-10/07
	Emeritus Professor	University of Washington	10/07

Fellowships and Awards:

- NSF Fellow
- Woodrow Wilson Honorary Fellow
- Alfred P. Sloan Foundation Fellow
- American Physical Society Fellow: 1978-
- J.S. Guggenheim Fellowship: 1981-1982
- Alexander von Humboldt Senior Scientist Award: 1982
- Tom W. Bonner Prize of the American Physical Society: 1985
- Sherman Fairchild Distinguished Scholar (Caltech): 1988
- Leigh Paige Prize Lecturer (Yale University): 1992
- Paid Scientific Associate (CERN): 1992-1993
- Eugene Feenberg Lecturer (Washington University): 1994
- Member, National Academy of Sciences: 1994-
- Fellow, American Academy of Arts and Sciences: 1998-

- Selove Lecturer (Univ. of Pennsylvania): 2001
- Distinguished Visitor, Haverford College: 2002
- Umezawa Memorial Distinguished Visitor, University of Alberta: 2002
- William Nordberg Lecturer, Goddard Space Flight Center: 2002
- Fellow, Institute of Physics: 2004-
- Morris Loeb Lecturer in Physics, Harvard University: 2006
- Phi Beta Kappa Visiting Scholar: 2008

Professional Services:

- NSF Advisory Panel for Physics: 1973-1976
- Advisory Panel (Fachbeirat) for Nuclear Physics at the Max-Planck-Institutes at Heidelberg and Mainz: 1976-1979
- Visiting Committee, Texas A&M University Cyclotron Institute: 1977
- Associate Editor: Physical Review Letters: 1978-1981
- Argonne Universities Association Review Committee for the Physics Division of Argonne National Laboratory, 1980-1985; Chairman (1982, 1985)
- Scientific Advisory Panel, Southeastern Universities Research Association: 1981-1982
- Program Advisory Committee, Indiana University Cyclotron Facility: 1982-1985
- Division of Nuclear Physics Committee on Contacts with the Press, Chairman: 1983
- NSAC Workshop to Prepare a Long Range Plan for Nuclear Physics: 1983
- Grants Selection Committee for Nuclear Science, Natural Sciences and Engineering Research Council of Canada: 1983
- Program Advisory Committee, MIT Bates Linear Accelerator: 1983-1986
- Executive Committee, Division of Nuclear Physics of the American Physical Society: 1984-1986
- Program Advisory Committee, LAMPF: 1984-1988
- Dean's Advisory Committee, Laboratory for Nuclear Science, MIT: 1984-1988
- Vice Chairman & Program Committee Chairman, American Physical Society Division of Nuclear Physics : 1986

- Chairman, American Physical Society Division of Nuclear Physics: 1987
- Program Advisory Committee for Nuclear Physics at SLAC: 1987-1991
- Review Committee for Externally Funded Research in Nuclear and Particle Physics, Los Alamos National Laboratory: 1987
- Provost's Visiting Committee for the Department of Physics, Yale University: 1989
- NSAC Workshop to Prepare a Long Range Plan for Nuclear Physics: 1989
- APS/AAPT Workshop 'The Research Physicist in Undergraduate Curriculum Development': 1990
- External Review Committee for the Department of Physics, University of Pennsylvania: 1991
- 1992 Fellowship Committee, APS Division of Nuclear Physics: 1991-1992
- Review Panel, NSF Division of Physics Presidential Faculty Fellows Program: 1992
- Steering Committee, Keystone Scientist-to-Scientist Colloquium: 1992
- Vice-Chairman, APS Topical Group on Precision Measurement and Fundamental Constants: 1993
- Chairman, APS Topical Group on Precision Measurement and Fundamental Constants: 1994
- Nuclear Science Advisory Committee: 1993-1996
- NRC Committee on Gravity Probe B: 1995
- Advisory Board and Steering Committee, Institute for Theoretical Physics, Santa Barbara: 1996-1999
- NSF Special Emphasis Panel for Nuclear Physics: 1996
- NSF Special Emphasis Panel for Gravitational Physics: 1996
- Dean's External Review Committee of the Texas A&M University Physics Department: 1997
- NRC Committee on Gravitational Physics: 1997-1999
- APS Selection Committee for the Francis M. Pipkin Award: 1999-2000
- Visiting Committee for Caltech Division of Physics, Mathematics and Astronomy: 2000-2005

- NRC Committee on Physics of the Universe: 2001-2002
- Executive Committee Member-at-Large, APS Topical Group in Gravitation: 2002-2004
- Member: Editorial Board for Classical and Quantum Gravity: 2004-
- NRC Beyond Einstein Program Assessment Committee: 2006-2007
- Chair, Dean's External Review Committee of the Texas A&M University Physics Department: 2008

Publications:

1. "T=3/2 Levels in ^{17}F ," E.G. Adelberger and C.A. Barnes, Phys. Lett. **23**, 474 (1966).
2. "A Phase Stabilized Beam Pulsing System," E.G. Adelberger, Nucl. Instr. & Meth. **47**, 327 (1967).
3. "Lowest T=2 States in ^{20}Ne and ^{24}Mg ," E.G. Adelberger and A.B. McDonald, Phys. Lett. **24B**, 270 erratum **24B**, 618 (1967).
4. "The Nuclear Masses of C^9 and the Corresponding Analog States of B^9 and Be^9 ," C.A. Barnes, E.G. Adelberger, D.C. Hensley, and A.B. McDonald, Proc. Internat. Conf. on Nuclear Physics, Gatlinburg, TN, 1966, Academic Press, p. 261.
5. "A Lower Limit on the Mass of ^5Be ," E.G. Adelberger, A.B. McDonald, T.A. Tombrello, F.S. Dietrich and A.V. Nero, Phys. Lett. **25B**, 595 (1967).
6. "T=3/2 Levels in ^{21}Na ," A.B. McDonald and E.G. Adelberger, Phys. Lett. **26B**, 380 (1968).
7. "Isospin Non-Conserving Decays in Mirror Nuclei," E.G. Adelberger, C.L. Cocke, C.N. Davids and A.B. McDonald, Phys. Rev. Lett. **22**, 352 (1969).
8. "A Study of Low-Lying T=3/2 and T=2 States in Some Light Nuclei," E.G. Adelberger, A.B. McDonald and C.A. Barnes, Nuc. Phys. **A124**, 49 (1969).
9. "The $^{18}\text{O}(\alpha, \gamma)^{22}\text{Ne}$ Reaction," A. Adams, M.H. Shapiro, W.M. Denny, E.G. Adelberger and C.A. Barnes, Nucl. Phys. **A131**, 430 (1969).
10. "A Study of ^{22}Mg by the $^{20}\text{Ne}(^3\text{He}, n)$ Reaction," A.B. McDonald and E.G. Adelberger, Nucl. Phys. **A144**, 593 (1970).
11. "T=3/2 Levels in ^{11}B from the $\text{Be}^{10}(p, \gamma_0)^{11}\text{B}$ Reaction," D.R. Goosman, E.G. Adelberger, and K.A. Snover, Phys. Rev. **C1**, 123 (1970).
12. "Low-Lying T=2 States of ^{16}O ," E.G. Adelberger, A.V. Nero and A.B. McDonald, Nucl. Phys. **A143**, 97 (1970).
13. "A Study of the $^{16}\text{O}(^3\text{He}, n)$ and $^{12}\text{C}(^3\text{He}, n)$ Stripping Reactions and a Comparison of Analogous $(^3\text{He}, n)$, $(^3\text{He}, p)$ and (t, p) Transitions," E.G. Adelberger and A.B. McDonald, Nucl. Phys. **A145**, 497 (1970).
14. "Isospin Non-Conserving Particle Decays of the Lowest T=3/2 Levels in ^{17}F and ^{17}O ," A.B. McDonald, E.G. Adelberger, H.B. Mak, D. Ashery, A.P. Shukla, C.L. Cocke and C.N. Davids, Phys. Lett. **31B**, 119 (1970).
15. "Electromagnetic Decays of the Lowest T=2 State in ^{32}P ," E.G. Adelberger and D.P. Balamuth, Phys. Rev. Lett. **27**, 1597 (1971).

16. "Bringing Modern Research Techniques to a Freshman E&M Laboratory," E.G. Adelberger, R.E. Mischke and M. Strovink, *Amer. J. Phys.* **40**, 276 (1972).
17. "Study of the ${}^2\text{H}(d,n){}^3\text{He}$ Reaction between 12 and 19 MeV," F.S. Dietrich, E.G. Adelberger and W.E. Meyerhof, *Nucl. Phys.* **184**, 449, (1972).
18. "Lifetime of the First Excited State in ${}^{96}\text{Zr}$," D. Burch, H. Swanson, P. Russo and E.G. Adelberger, *Phys. Lett.* **40B**, 357 (1972).
19. "Observation of the Second T=2 State of ${}^{20}\text{Ne}$ as a Compound Resonance in ${}^{19}\text{F} + p$ Reactions," H.M. Kuan, G.L. Latshaw, W.J. O'Connell, D.W. Heikkinen, E.G. Adelberger, A.V. Nero and S.S. Hanna, *Nucl. Phys.* **A193**, 497 (1972).
20. "Lifetime of the 0_2^+ State of ${}^{206}\text{Pb}$ and the State Dependence of the Monopole Effective Charge," J.W. Tape, E.G. Adelberger, D. Burch and L. Zamick, *Phys. Rev. Lett.* **29**, 878 (1972).
21. "Some Properties of the Lowest T=2 State of ${}^{16}\text{O}$," A.V. Nero, R.E. Pixley, and E.G. Adelberger, *Phys. Rev.* **C6**, 679 (1972).
22. "Isospin Forbidden Decays of T=3/2 Levels in Mirror Nuclei," E.G. Adelberger, A.B. McDonald, C.L. Cocke, C.N. Davids, A.P. Shukla, H.B. Mak and D. Ashery, *Phys. Rev.* **C7**, 889 (1973).
23. "Failure of the Coexistence Model to Account for Observed Two-Nucleon Transfer Cross Sections," E.G. Adelberger, P.T. Debevec, G.T. Garvey and R. Ohanian, *Phys. Rev. Lett.* **23**, 883 (1973).
24. "Accelerator Production of ${}^8\text{B}$ Neutrinos," R.E. Marrs, D. Bodansky and E.G. Adelberger, *Phys. Rev.* **C8**, 427 (1973).
25. "Parity-Mixing of the Ground and First Excited States in ${}^{19}\text{F}$," E.G. Adelberger, H.E. Swanson, J.W. Tape and M.D. Cooper, *Proc. of the Internat. Conf. on Nuclear Physics*, Munich, 1973, eds., J. de Boer and H.J. Mang, North-Holland Publishing Co., Amsterdam, p. 36.
26. "Electric Dipole and Quadrupole Resonances in the ${}^{12}\text{C}(\alpha, \gamma_0)$ Reaction," K.A. Snover, E.G. Adelberger, D.R. Brown and S.T. Lim, in *Proc. on the Internat. Conf. on Nuclear Physics*, Munich, 1973, eds., J. de Boer and H.J. Mang, North-Holland Publishing Co., Amsterdam, p. 646.
27. "Where is the $(2s_{1/2})^2$ T=1 Strength in Mass 18?," A.V. Nero, E.G. Adelberger, F.S. Dietrich and G.E. Walker, *Phys. Rev. Lett.* **32**, 623 (1974).
28. "Isoscalar Electric Quadrupole Strength in ${}^{16}\text{O}$," K.A. Snover, E.G. Adelberger and D.R. Brown, *Phys. Rev. Lett.* **32**, 1061 (1974).

29. "Charge Dependent Mixing," E.G. Adelberger, Invited paper given at the Internat. Conf. on Nuclear Structure and Spectroscopy, Amsterdam, 1974. *Proc. of the Internat. Conf. on Nuclear Structure and Spectroscopy*, eds., H.P. Blok and A.E.L. Dieperink, Scholars Press, Amsterdam, 1974, p. 641.
30. "Parity-Mixing," E.G. Adelberger, Invited paper given at the Fourth Internat. Symp. on Polarization Phenomena in Nuclear Reactions, Zurich, 1975. *Proc. of Fourth Internat. Sym. on Polarization Phenomena in Nuclear Reactions*, eds., W. Gruebler and V. König, Birkhäuser Verlag Basel, 1976, p. 97.
31. "Mirror γ Decays in ^{13}C and ^{13}N ," R.E. Marris, E.G. Adelberger, K.A. Snover and M.D. Cooper, *Phys. Rev. Lett.* **35**, 202 (1975).
32. "Parity-Mixing in ^{19}F ," E.G. Adelberger, H.E. Swanson, M.D. Cooper, J.W. Tape and T.A. Trainor, *Phys. Rev. Lett.* **34**, 402, (1975).
33. "Isospin-Mixing in ^{12}C ," E.G. Adelberger, R.E. Marris, K.A. Snover and J.E. Bussolletti, *Phys. Lett.* **62B**, 29 (1976).
34. "Upper Limits for Isospin-Forbidden γ -Decays in ^{20}Ne ," R.E. Marris, E.G. Adelberger, K.A. Snover and M.D. Cooper, *Nucl. Phys.* **A256**, 1 (1976).
35. "Isospin-forbidden Particle Decays in Light Nuclei (I): T=3/2 Levels in ^9Be , ^9B ," A.B. McDonald, T.K. Alexander, O. Häusser, D. Didier, E.G. Adelberger, H.B. Mak, A.P. Shukla and A.V. Nero, *Nucl. Phys.* **A273**, 451 (1976).
36. "Gamma Decays of Some T=0, T=1 and T=2 States above $E_x = 9.5$ MeV in ^{20}Ne ," R.E. Marris, E.G. Adelberger and K.A. Snover, *Nucl. Phys.* **A277**, 429 (1977).
37. "Radiative Transitions and Isospin-Mixing in ^{12}C ," E.G. Adelberger, R.E. Marris, K.A. Snover and J.E. Bussolletti, *Phys. Rev. C* **15**, 484 (1977).
38. "Electromagnetic Transitions in ^{13}C and ^{13}N ," R.E. Marris, E.G. Adelberger and K.A. Snover, *Phys. Rev.* **C16**, 61 (1977).
39. "Electromagnetic Decays of T=2 States in $T_z = 1$ Nuclei," D.P. Balamuth and E.G. Adelberger, *Phys. Rev.* **C16**, 928 (1977).
40. "Nuclear and Atomic Probes of the Neutral Weak Currents," E.G. Adelberger, Proceedings of Int. Conf. on Nuclear Physics at Cyclotron Energies, Calcutta, eds. N.K. Ganguly *et al.* 1977, p47.
41. "Nuclear Parity Mixing: An Experimental Review," E.G. Adelberger, in *Unification of Elementary Forces and Gauge Theories*, eds. D.B. Cline and F.E. Mills, Harwood Academic Publishers, London, 1977, p. 197.

42. "A Search for Neutral Weak Current Effects in the Nucleus ^{18}F ," C.A. Barnes, M.M. Lowry, J.M. Davidson, R.E. Marrs, F.B. Morinigo, B. Chang and H.E. Swanson, *Phys. Rev. Lett.* **40**, 840 (1978).
43. "Upper Limit on Parity Mixing in ^{21}Ne ," K.A. Snover, R. Von Lintig, E.G. Adelberger, H.E. Swanson, T.A. Trainor, A.B. McDonald, E.D. Earle and C.A. Barnes, *Phys. Rev. Lett.* **41**, 145 (1978).
44. "Decays of the Lowest $T=2$ State in ^{44}Ti ," S.J. Freedman, C.A. Gagliardi, M.A. Oothoudt, A.V. Nero, R.G.H. Robertson, F.J. Zutavern, E.G. Adelberger and A.B. McDonald, *Phys. Rev.* **C17**, 2071 (1978).
45. "Mass of the Lowest $T=2$ Level in ^{12}C ," R.G.H. Robertson, T.L. Khoo, G.M. Crawley, A.B. McDonald, E.G. Adelberger and S.J. Freedman, *Phys. Rev.* **C17**, 1535 (1978).
46. "Isospin Forbidden β Decay of ^{28}Mg ," P.A. Dickey, J.E. Bussolletti and E.G. Adelberger, *Nucl. Phys.* **A303**, 442 (1978).
47. "Schematic Model for Isospin Mixing in Light Nuclei," A.B. McDonald and E.G. Adelberger, *Phys. Rev. Lett.* **40**, 1692 (1978).
48. "Gamma Decays of the First $T=3/2$ States in ^9Be and ^9B ," P.A. Dickey, P.L. Dyer, K.A. Snover and E.G. Adelberger, *Phys. Rev. C* **18**, 1973 (1978).
49. "Total Width of the Lowest $T=2$ State in ^{24}Mg ," J.L. Osborne, E.G. Adelberger and K.A. Snover, *Nucl. Phys.* **A305**, 144 (1978).
50. " α Width of the Lowest $T=2$ State in ^{28}Si ," P.G. Ikossi, K.A. Snover, J.L. Osborne, E.G. Adelberger and A.B. McDonald, *Nucl. Phys.* **A319**, 109 (1979).
51. "Isospin Nonconserving Proton Decays of $^{13}\text{N}(T=3/2)$ to Negative Parity States of ^{12}C ," E.G. Adelberger, R.E. Marrs and K.A. Snover, *Phys. Rev.* **C19**, 1 (1979).
52. "Decays of the Lowest $T=2$ States in $A=4N$ Nuclei from ^8Be to ^{44}Ti ," S.J. Freedman, C.A. Gagliardi, H.A. Oothoudt, A.V. Nero, R.G.H. Robertson, F.J. Zutaveran, E.G. Adelberger and A.B. McDonald, *Phys. Rev.* **C19**, 1907 (1979).
53. "Unique Determination of the Amplitude and Phase for the Population of the Giant Dipole Resonance in the $^{12}\text{C}(p,\gamma_0)^{13}\text{N}$ Reaction," K.A. Snover, P.G. Ikossi, E.G. Adelberger and K.T. Lesko, *Phys. Rev. Lett.* **44**, 927 (1980).
54. "A Technique for Measuring Parity Nonconservation in Hydrogenic Atoms," E.G. Adelberger, T.A. Trainor, E.N. Fortson, T.E. Chupp, D. Holmgren, M.Z. Iqbal and H.E. Swanson, *Nucl. Instru. and Meth.* **179**, 181 (1981).
55. "Polarization Techniques and Experimental Tests of Fundamental Symmetries in Nuclear Physics," E.G. Adelberger, *Polarization Phenomena in Nuclear Physics*, eds., G.G. Ohlsen *et al.*, AIP Conf. Proc. No. 69, 1367 (AIP, New York, 1981).

56. " $0^+ \rightarrow 0^- \beta^+$ Decay of ^{18}Ne and the Determination of F_π ," E.G. Adelberger, C.D. Hoyle, H.E. Swanson and R.D. Von Lintig, *Phys. Rev. Lett.* **46**, 695 (1981).
57. "The Structure of ^{18}Ne ," A.V. Nero, E.G. Adelberger and F.S. Dietrich, *Phys. Rev.* **C24**, 1864 (1981).
58. " $1/2^+ \rightarrow 1/2^-$ Beta Decay of ^{19}Ne and the Parity Nonconserving NN Force," E.G. Adelberger, M.M. Hindi, C.D. Hoyle, H.E. Swanson and R.D. Von Lintig, *Phys. Rev.* **C24**, 313 (1981).
59. "Beta Decay of ^{24}Al and $^{24}\text{Al}^m$," A. Ray, C.D. Hoyle and E.G. Adelberger, *Nucl. Phys.* **A378**, 29 (1982).
60. "Weak Interaction Experiments at Low Energies - Results from Atomic and Nuclear Physics," E.G. Adelberger, in *Particles and Fields-1981: Testing the Standard Model*, eds., C.A. Heusch and W.T. Kirk, AIP Conf. Proc. No. 81, AIP, NY, 1982, p. 259.
61. "Parity Nonconserving Nuclear Forces," E.G. Adelberger, *Comments in Nuclear and Particle Physics*, **XI**, 189 (1983).
62. "Parity Mixing in ^{21}Ne : Evidence for Weak Neutral Currents in Nuclei," E.D. Earle, A.B. McDonald, E.G. Adelberger, K.A. Snover, H.E. Swanson, R. Von Lintig, H.B. Mak, and C.A. Barnes, *Proc. Internat. Conf. on Nuclear Structure*, Amsterdam, 1982, *Nucl. Phys.* **A396**, 221c (1983).
63. "Isospin Mixing in ^{24}Mg ," C.D. Hoyle, E.G. Adelberger, J.S. Blair, K.A. Snover, H.E. Swanson, and R.D. Von Lintig, *Phys. Rev.* **C27**, 1244 (1983).
64. "Beta Decays of ^{18}Ne and ^{19}Ne and their Relation to Parity Mixing in ^{18}F and ^{19}F ," E.G. Adelberger, M.M. Hindi, C.D. Hoyle, H.E. Swanson, R.D. Von Lintig and W.C. Haxton, *Phys. Rev.* **C27**, 2833 (1983).
65. "Proton Capture to Excited States of ^{16}O ; M1, E1 and Gamow-Teller Transitions and Shell Model Calculations," K.A. Snover, E.G. Adelberger, P.G. Ikossi and B.A. Brown, *Phys. Rev.* **C27**, 1837 (1983).
66. "Breaking of Fundamental Symmetries in Nuclei," E.G. Adelberger, in *Symmetries in Nuclear Structure*, eds., K. Abrahams, K. Allaart and A.E.L. Dieperink, Plenum Publ. Corp. 1983, p. 55.
67. "Physics with 4π γ -detectors," V. Metag, R.D. Fischer, W. Kühn, R. Mühlhans, R. Novotny, D. Habs, U. v. Helmolt, H.W. Heyng, R. Kroth, D. Pelte, D. Schwalm, W. Hennerici, H.J. Henrich, G. Himmele, E. Jaeschke, R. Repnow, W. Wahl, E. Adelberger, A. Lazzarini, R.S. Simon, R. Albrecht, B. Kolb, *Nucl. Phys.* **A409**, 331c (1983).

68. "Nuclear Probes of Fundamental Symmetries," Invited Talk at 39th International Conference on Nuclear Physics, Proc. of Int. Conf. on Nuclear Physics, Florence 1983 Vol. II, eds., P. Blass and R.A. Ricci, Tipografia Compositori, Bologna, p. 499.
69. "The ℓ -forbidden Gamow-Teller Decay of ^{39}Ca ," E.G. Adelberger, J.L. Osborne, H.E. Swanson, and B.A. Brown, Nucl. Phys. **A417**, 269 (1984).
70. "The g-factor and Lifetime of the 3^- (298 keV) State in ^{16}N ," J. Billowes, E.G. Adelberger, O. Avila, N.A. Jelley and W.R. Kölbl, Nuclear Physics **A413**, 503 (1984).
71. "Parity Mixing of Elastic Scattering Resonances: General Theory and Application to ^{14}N ," E.G. Adelberger, P. Hoodbhoy and B.A. Brown, Phys. Rev. **C30**, 456 (1984).
72. "Symmetry Violation in Nuclei," E.G. Adelberger, in *Intersections between Particle and Nuclear Physics*, ed., R.E. Mischke, AIP Conf. Proc. No. 128, AIP, NY, (1984) p. 300.
73. "Symmetry Violation in Nuclear Reactions," in *New Scope of Heavy Ion Science*, Part I, eds., A. Arima, H. Kamitsubo, S. Kubono, and S. Nagamiya, Supp. Jour. Phys. Soc. Japan **54**, 6 (1985).
74. "The Parity Nonconserving Nucleon-Nucleon Interaction," E.G. Adelberger and W.C. Haxton, Ann. Rev. of Nuclear and Particle Science **35**, 501 (1985).
75. "Symmetries in Nuclei," E.G. Adelberger, in *Current Problems in Nuclear Physics*, eds., T. Paradellis and S. Kossionides, Hellenic Physical Society Conf. Series 1, 177 (1986).
76. "Does the Cabibbo Angle Vanish in Fermi Matrix Elements of High J States?," E.G. Adelberger, P.B. Fernandez, C.A. Gossett, J.L. Osborne, and V.J. Zeps, Physical Review Letters **55**, 2129 (1985).
77. "The Nucleon-Nucleon Weak Interaction," E.G. Adelberger, in *The Investigation of Fundamental Interactions with Cold Neutrons*, ed., G.L. Greene, NBS Special Publication 711, U.S. Department of Commerce, Feb. 1986.
78. "Reply to 'Parity Violating Asymmetries in the Scattering of Transversely Polarized Protons'," E.G. Adelberger, P. Hoodbhoy, and B.A. Brown, Physical Review **C33**, 1840 (1986).
79. "Parity and Time-Reversal Violation in Nuclei and Atoms," E.G. Adelberger, *Intersections between Particle and Nuclear Physics*, ed., D.F. Geesaman, AIP Conf. Proc. No. 150, p. 1177, 1986.
80. "Nuclear Probes of Fundamental Symmetries," E.G. Adelberger, *Weak and Electromagnetic Interactions in Nuclei*, ed. H.V. Klapdor, Springer-Verlag, Heidelberg, p. 592, 1986.

81. "Parity and Time-Reversal Violation in Nuclei," E.G. Adelberger, Proceedings of V Int. School in Neutron Physics, Oct. 1986, Alushta, USSR, p. 123.
82. "Search for an Intermediate Range Interaction," C.W. Stubbs, E.G. Adelberger, F.J. Raab, J.H. Gundlach, B.R. Heckel, K.D. McMurry, H.E. Swanson, and R. Watanabe, *Physical Review Letters* **58**, 1070 (1987).
83. "Energy Modulations of a Polarized Proton Beam Associated with Polarization Reversal," J. Sromicki, P.A. Quin, W. Haeberli, E.G. Adelberger, C.A. Gossett, H.E. Swanson, and V.J. Zeps, *Nucl. Instrum. Methods* **A255**, 611 (1987).
84. "The ^{37}Cl Solar Neutrino Capture Cross Section," E.G. Adelberger and W.C. Haxton, *Physical Review* **C36**, 879 (1987).
85. "New Constraints on Composition-Dependent Interactions Weaker than Gravity," E.G. Adelberger, C.W. Stubbs, W.F. Rogers, F.J. Raab, B.R. Heckel, J.H. Gundlach, H.E. Swanson, and R. Watanabe, *Physical Review Letters* **59**, 849 (1987), erratum **59**, 1790 (1987).
86. "Searches for Forces Weaker than Gravity," E.G. Adelberger, 1989 Yearbook of Science and Technology, McGraw-Hill, J. Weil, editor.
87. "Constraints on Composition Dependent Interactions from the Eöt-Wash Experiment," E.G. Adelberger, *5th Force - Neutrino Physics*, ed. by O. Fackler and J. Tran Thanh Van, Editions Frontières, p. 445 (1988).
88. "Search for ℓ -forbidden β decay $^{207}\text{Tl} \rightarrow ^{207}\text{Pb}$ (570 keV)," M.M. Hindi, E.G. Adelberger, S.E. Kellogg and T. Murakami, *Physical Review* **C38**, 1370 (1988).
89. Comment on "A New Approach to the Question of the Fifth Force", E.G. Adelberger and C.W. Stubbs, *Physics Letters* **A132**, 91 (1988).
90. "Constraints on Proposed Spin-0 and Spin-1 Partners of the Graviton," C.W. Stubbs, E.G. Adelberger and C. Gregory, *Physical Review Letters* **61**, 2409 (1988).
91. "Shielding the Fifth Force?," R. Watanabe, C.W. Stubbs, and E.G. Adelberger, *Physical Review Letters* **61**, 2152 (1988) (Comment).
92. "Searching for New Macroscopic Forces," E.G. Adelberger and C.W. Stubbs, *Physics News in 1988*, *Physics Today*, **42**, S-53 (1989).
93. "Limits on Composition-Dependent Interactions Using a Laboratory Source: Is There A "Fifth Force" Coupled to Isospin?," C.W. Stubbs, E.G. Adelberger, B.R. Heckel, W.F. Rogers, H.E. Swanson, R. Watanabe, J.H. Gundlach and F.J. Raab, *Physical Review Letters* **62**, 609 (1989).

94. “High-Sensitivity Hillside Results from the Eöt-Wash Experiment,” E.G. Adelberger, Proceedings of the XXIVth Rencontre de Moriond, *Tests of Fundamental Laws in Physics*, ed. O. Fackler and J. Tran Thanh Van, Editions Frontières, p. 485 (1989).
95. “The γ -width of the Unbound 5.17 MeV level of ^{14}O and the “hot” CNO cycle,” P.B. Fernandez, E.G. Adelberger, and A. García, Physical Review C **40**, 1887 (1989).
96. “Is there a Fifth Force?”, E.G. Adelberger, Proceedings of the XXIII Yamada Conference, *Nuclear Weak Process and Nuclear Structure*, ed. M. Morita, H. Ejiri, H. Ohtsubo and T. Sato, World Scientific Publ. Co. (Singapore), p. 570 (1989).
97. “Low Lying States in ^{127}Xe : Implications for the Efficiency of an ^{127}I solar ν Detector,” A. García, E.G. Adelberger, A. Charlop, S. Gil, J. Gundlach, and S. Kailas, Physical Review C **41**, 775 (1989).
98. “Experimental Bounds on Interactions Mediated by Ultra-Low Mass Bosons,” B.R. Heckel, E.G. Adelberger, C.W. Stubbs, Y. Su, H.E. Swanson, G. Smith, and W.F. Rogers, Physical Review Letters **63**, 2705 (1989).
99. “A New Look at an Old Problem: Testing the Equivalence Principle in the Field of the Earth”, E.G. Adelberger, in *Fundamental Symmetries in Nuclei and Particles*, ed. H. Henrikson and P. Vogel, World Scientific Publ. Co. (Singapore) p. 260 (1990).
100. “Experimental Tests of the Universality of Free Fall and of the Inverse Square Law”, E.G. Adelberger, in *General Relativity and Gravitation, 1989*, Proceedings of the 12th International Conference on General Relativity and Gravitation, ed. by N. Ashby, D.F. Bartlett, and W. Wyss, Cambridge University Press (NY) 1990, p. 273.
101. “ ^{37}Ca β^+ Decay and the Efficiency of the ^{37}Cl Detector for High Energy Neutrinos”, A. García, E.G. Adelberger, H.E. Swanson, T.F. Lang and D.M. Moltz, Physical Review C **42**, 762 (1990).
102. “No Anomalous Weight Reduction for Microscopic Gyroscopes”, E.G. Adelberger, Nature **345**, 120 (1990).
103. “Testing the Equivalence Principle in the Field of the Earth: Particle Physics at Mass Scales Below $1\ \mu\text{eV}$?”, E.G. Adelberger, in *The Standard Model and Beyond* Proceedings of the Fifth Lake Louise Winter Institute, eds. A. Astbury et al., World Scientific Publ. Co. (Singapore) p. 284 (1990).
104. “Testing the Equivalence Principle in the Field of the Earth: Particle Physics at Mass Scales Below $1\ \mu\text{eV}$?”, E.G. Adelberger, C.W. Stubbs, B.R. Heckel, Y. Su, H.E. Swanson, G. Smith, J.H. Gundlach, and W.F. Rogers, Physical Review D **42**, 3267 (1990).
105. “Eötvös Experiments, Lunar Ranging, and the Strong Equivalence Principle”, E.G. Adelberger, B.R. Heckel, G. Smith, Y. Su, and H.E. Swanson, Nature **347**, 261 (1990).

106. "T-violation experiments using Mössbauer transitions," A. Schäfer and E.G. Adelberger, *Zeitschrift für Physik A* **339**, 305 (1991).
107. "Does Anti-Matter Fall with the Same Acceleration as Ordinary Matter?" E.G. Adelberger, B.R. Heckel, C.W. Stubbs, and Y. Su, *Physical Review Letters* **66**, 850 (1991); reply to Comment, *Physical Review Letters* **67**, 1049 (1991).
108. "The 'Missing' 3^+ Level of ^{18}Ne and Explosive $^{17}\text{F}(p,\gamma)$ Burning," A. García, E.G. Adelberger, P.V. Magnus, D.M. Markoff, K.B. Swartz, M.S. Smith, K.I. Hahn, N. Bateman, and P.D. Parker, *Physical Review C* **43**, 2012 (1991).
109. "A Low-Energy Frontier of Particle Physics", E.G. Adelberger (invited talk at the 1990 PANIC conference), *Nuclear Physics A* **527**, 223c (1991).
110. "Searches for New Macroscopic Forces" E.G. Adelberger, C.W. Stubbs, B.R. Heckel, and W.F. Rogers, *Ann. Rev. Nuclear and Particle Science* **41**, 269 (1991).
111. " β^+ Decay of ^{37}Ca : Implications for the Efficiency of the ^{37}Cl Solar ν Detector" A. García, E.G. Adelberger, P.V. Magnus, H.E. Swanson, O. Tengblad and D. Moltz, *Physical Review Letters* **67**, 3654 (1991).
112. "Is the weak axial-vector current renormalized in nuclei?" E.G. Adelberger, A. García, P.V. Magnus, and D.P. Wells, *Physical Review Letters* **67**, 3658 (1991).
113. "Wells *et al.* reply", *Physical Review Letters* **69**, 2446 (1992).
114. "Reexamination of an Anomaly in Near-Threshold Pair Production" L. De Braeckeleer, E.G. Adelberger and A. García, *Physical Review A* **46**, R5324 (1992).
115. "A Test of the Equivalence Principle for Ordinary Matter Falling toward Dark Matter", G. Smith, E.G. Adelberger, B.R. Heckel, and Y. Su, *Physical Review Letters* **70**, 123 (1993).
116. "Improved limits on scalar weak couplings", E.G. Adelberger, *Physical Review Letters* **70**, 2856 (1993).
117. "Accelerator Calibration of Solar Neutrino Detectors", E.G. Adelberger, L. DeBraeckeleer, W.C. Haxton, and K.A. Snover, *Physics Letters B* **314**, 185 (1993).
118. "Gamma width of $^{14}\text{O}^*(5.17\text{ MeV})$ and the stellar $^{13}\text{N}(p,\gamma)$ reaction rate", M.S. Smith, P.V. Magnus, K.I. Hahn, R.M. Curley, P.D. Parker, T.F. Wang, K.E. Rehm, P.B. Fernandez, S.J. Sanders, A. García, and E.G. Adelberger, *Physical Review C* **47**, 2740 (1993).
119. "Energy of the 'hot CNO cycle' $^{13}\text{N}(p,\gamma)$ resonance and the ^{18}Ne mass.", P.V. Magnus, E.G. Adelberger, and A. García, *Phys. Rev. C* **49**, R1755 (1994).

120. "Gravity with Levity", E.G. Adelberger, *Perspectives in Neutrinos, Atomic Physics and Gravitation*, eds. J.T.T. Van, T. Damour, E. Hinds and J. Wilkerson, Editions Frontières, Gif-sur-Yvette, p.571 (1993).
121. "Quantum Mechanics and Bell's Inequalities", R.T. Jones and E.G. Adelberger, *Physical Review Letters* **72**, 2675 (1994).
122. "Modern Tests of the Universality of Free Fall", E.G. Adelberger, *Journal of Classical and Quantum Gravity*, **11**, A9 (1994).
123. "Modern Tests of the Universality of Free Fall", E.G. Adelberger, in *Experimental Gravitation*, ed. by M. Karim and A. Qadir, Inst. of Physics Publishing, Bristol and Philadelphia, p A9 (1994).
124. "New Tests of the Universality of Free Fall", Y. Su, B.R. Heckel, E.G. Adelberger, J.H. Gundlach, M. Harris, G.H. Smith and H.E. Swanson, *Physical Review D*. **50**, 3614 (1994).
125. "Tests of the Weak Equivalence Principle in the Earth's Field", Y. Su, E.G. Adelberger, B.R. Heckel, M.G. Harris and G.L. Smith, *Proceedings of the William Fairbank Conference, Hong Kong*, (1994).
126. "Parity Mixing of the $0^+ - 0^-$ $I=1$ Doublet in ^{14}N ", V.J. Zeps, E.G. Adelberger, A. García, C.A. Gossett, H.E. Swanson, W. Haeberli, P.A. Quin, and J. Sromicki, *Physical Review C* **51**, 1494 (1995).
127. "Beta-delayed γ -ray emission in ^{37}Ca decay", A. García, E.G. Adelberger, P.V. Magnus, H.E. Swanson, D.P. Wells, F.E. Wietfeldt, O. Tengblad and the Isolde Collaboration", *Physical Review C* **51**, R439 (1995).
128. "Gamow-Teller Strength in the β -decay of ^{36}Ca ", W. Trinder, E.G. Adelberger, B.A. Brown, Z. Janas, H. Keller, K. Krumbholz, V. Kunze, P. Magnus, F. Meissner, A. Piechaczek, M. Pfützner, E. Roeckl, K. Rykaczewski, W.-D. Schmidt-Ott and M. Weber, *Physics Letters B* **348**, 331 (1995).
129. " β -decay of ^{37}Ca ", W. Trinder, E.G. Adelberger, Z. Janas, H. Keller, K. Krumbholz, V. Kunze, P. Magnus, F. Meissner, A. Piechaczek, M. Pfützner, E. Roeckl, K. Rykaczewski, W.-D. Schmidt-Ott and M. Weber, *Physics Letters B* **349**, 267 (1995).
130. "Radiative Decays of the 16.6 and 16.9 MeV States in ^8Be and Tests of CVC in the $A = 8$ Multiplet", L. DeBraekeleer, E.G. Adelberger, J.H. Gundlach, M. Kaplan, D. Markoff, A.M. Nathan, W. Schieff, K.A. Snover, K.B. Swartz, D. Wright and B.A. Brown, *Physical Review C* **51**, 2778 (1995).
131. "Gamma decays of proton unbound levels in ^{37}K ", P.V. Magnus, E.G. Adelberger and N. Cabot, *Physical Review C* **51**, 2806 (1995).

132. “ ^{36}Ca β decay and the Isobaric Multiplet Mass Equation”, A. García, E.G. Adelberger, P.V. Magnus, H.E. Swanson, F.E. Wietfeldt, O. Tengblad and the Isolde Collaboration”, *Physical Review C* **51**, 3487 (1995).
133. “New technique for measuring Newton’s constant G ”, J.H. Gundlach, E.G. Adelberger, B.R. Heckel, and H.E. Swanson, *Physical Review D* **54**, 1256R (1996).
134. “Structure of ^{18}Ne and the breakout from the hot CNO cycle” K.I. Hahn, A. García, E.G. Adelberger, P.V. Magnus, A.D. Bacher, N. Bateman, G.P.A. Berg, J.C. Blackmon, A.E. Champagne, A.J. Howard, J. Liu, B. Lund, Z.Q. Mao, P.D. Parker, M.S. Smith, E.J. Stephenson, K.B. Swartz, S. Utku, and R.B. Vogelaar, *Physical Review C* **54**, 1999 (1996)
135. “Isospin mixing in ^{37}K and spin decomposition of Gamow-Teller strength in ^{37}Ca β decay”, N.I. Kaloskamis, A. García, S.E. Darden, E. Miller, W. Haeblerli, P.A. Quin, B.P. Schwartz, E. Yacoub, and E.G. Adelberger, *Physical Review C* **55**, 630 (1997).
136. “Study of the β -decay of ^{37}Ca and ^{36}Ca ”, W. Trinder, E.G. Adelberger, B.A. Brown, Z. Janas, H. Keller, K. Krumbholz, V. Kunze, P. Magnus, F. Meissner, A. Piechaczek, M. Pfützner, E. Roeckl, K. Rykaczewski, W.-D. Schmidt-Ott and M. Weber, *Nuclear Physics A* **620**, 191 (1997).
137. “Short-range test of the Equivalence Principle”, J.H. Gundlach, G.L. Smith, E.G. Adelberger, B.R. Heckel and H.E. Swanson, *Physical Review Letters* **78**, 2523 (1997).
138. “Translation of multipoles for a $1/r$ potential”, Christian D’Urso and E.G. Adelberger, *Physical Review D* **55**, 7970 (1997).
139. “ ^{40}Ti β decay and the Neutrino Capture Cross Section of ^{40}Ar ”, W. Trinder, R. Anne, M. Lewitowicz, M.G. Saint-Laurent, C. Donzaud, D. Guillemaud-Mueller, S. Leenardt, A.C. Mueller, F. Pougheon, O. Sorlin, M. Bhattacharya, A. García, N.I. Kaloskamis, E.G. Adelberger, and H.E. Swanson, *Physics Letters B* **415**, 211 (1997).
140. “Solar Fusion Cross Sections”, E.G. Adelberger, S.M. Austin, J.N. Bahcall, A.B. Balentekin, G. Bertsch, G. Bogaert, L.S. Brown, L. Buchmann, F.E. Cecil, A.E. Champagne, L. de Braekeleer, C.A. Duba and S.R. Elliott, S.J. Fredman, M. Gai, G. Goldring, C.R. Gould, A. Gruzinov, W.C. Haxton, K.M. Heeger, E. Henley, C.W. Johnson, M. Kamionkowski, R.W. Kavanagh, S.E. Koonin, K. Kubodera, K. Langanke, T. Motobayashi, V. Pandharipande, P. Parker, R.G.H. Roberston, C. Rolfs, R.F. Sawyer, N. Shaviv, T.D. Shoppa, K.A. Snover, E. Swanson, R.E. Tribble, S. Turck-Chièze and J.F. Wilkerson, *Reviews of Modern Physics* **70**, 1265 (1998).
141. “Neutrino absorption efficiency of an ^{40}Ar detector from the beta decay of ^{40}Ti ”, M. Bhattacharya, A. García, N.I. Kaloskamis, E.G. Adelberger, H.E. Swanson, R. Anne, M. Lewitowicz, M.G. Saint Laurent, W. Trinder, C. Donzaud, D. Guillemaud-Müller, S. Leenhardt, A.C. Müller, F. Pougheon and O. Sorlin, *Physical Review C* **58**, 3677 (1998).

142. "Beta-decay of light nuclei close to the proton drip-line: ^{40}Ti and ^{35}Ca ", M. Lewitowicz, W. Trinder, M. Bhattacharya, E.G. Adelberger, J. C. Angelique, R. Anne, J. Aysto, C. Borcea, J. M. Daugas, C. Donzaud, A. Garcia, S. Grevy, R. Grzywacz, D. Guillemaud-Mueller, A. Jokinen, N. L. Kaloskakis, S. Leenhard, M. J. Lopez, A. C. Mueller, F. de Oliveira, A. Ostrowski, F. Pougheon, M. G. Saint-Laurent, T. Siiskonen, O. Sorlin and H. E. Swanson, *Nuovo Cimento A* **111A**, 835 (1998).
143. "Positron-neutrino correlation in the $0^+ \rightarrow 0^+$ decay of ^{32}Ar ", E. G. Adelberger, C. Ortiz, A. García, H.E. Swanson, M. Beck, O. Tengblad, M.J.G. Borge, I. Martel, H. Bichsel and the ISOLDE collaboration, *Physical Review Letters* **83**, 1299 (1999).
144. "Searches for New Long-range Forces: Equivalence Principle Violation and Planck-scale Physics", E.G. Adelberger, S. Baessler, J.H. Gundlach, B.R. Heckel, C.D. Hoyle, S.M. Merkowitz, G.L. Smith and H.E. Swanson, *Physics Beyond the Standard Model*, eds. P. Herczeg, C. M. Hoffman and H. V. Klapdor-Kleingrothaus, World Scientific Publ. Co. (Singapore), p.717 (1999).
145. "*Gravitational Physics: Exploring the Structure of Space and Time*", Committee on Gravitational Physics (J.B. Hartle, E.G. Adelberger, A.V. Ashtekar, B.K. Berger, G.T. Horowitz, P.F. Michelson, R. Narayan, P.R. Saulson, D.N. Spergel, J.H. Taylor, S.A. Teukolsky and C.M. Will), National Academy Press, Washington (1999).
146. "Improved Test of the Equivalence Principle for Gravitational Self-energy", S. Baeßler, B. R. Heckel, E. G. Adelberger, J. H. Gundlach, U. Schmidt, and H. E. Swanson, *Phys. Rev. Lett.* **83**, 3585 (1999).
147. "Metallic ^7Be target of small diameter", A.Y. Zyuzin, L.R. Buchmann, J.S. Vincent, K.R. Buckley, N.P. Bateman, K.A. Snover, J.M. Cassandjian, T.D. Steiger, E.G. Adelberger and H.E. Swanson, *Nucl. Inst. and Methods. A* **438**, 109 (1999).
148. "Results on the strong Equivalence Principle, dark matter, and new forces", B.R. Heckel, E. Adelberger, S. Baessler, J. Gundlach, M. Harris, C. Hoyle, A. Sharp, G. Smith and E. Swanson, *Advances in Space Research* **25**, 1225 (2000).
149. "Positron-Neutrino Correlations in ^{32}Ar and ^{33}Ar Decays: Probes of Scalar Weak Currents and Nuclear Isospin Mixing", A. García, E.G. Adelberger, C.O. Ortiz, H.E. Swanson, M. Beck, O. Tengblad, M.J.G. Borge, I. Martel, H. Bichsel and the ISOLDE collaboration, *Hyperfine Interactions* **129** 237 (2000).
150. "Short-range Tests of the Equivalence Principle", G.L. Smith, C.D. Hoyle, J.H. Gundlach, E.G. Adelberger, B.R. Heckel, and H.E. Swanson, *Physical Review D* **61**, 022001-1 (2000).
151. "Torsion Balance Test of Spin-Coupled Forces", B.R. Heckel, E.G. Adelberger, J.H. Gundlach, M.G. Harris and H.E. Swanson, *proc. of Orbis Scientiae 1999, Quantum Gravity, Generalized Theory of Gravitation, and Superstring Theory-Based Unification*,

- ed. Kursunoglu, Mintz and Perlmutter, Kluwer Academic/Plenum Publishers, 153 (2000).
152. “A Low-Noise ^3He Ionization Chamber for Measuring the Energy Spectrum of a Cold Neutron Beam”, S. D. Penn, E. G. Adelberger, B. R. Heckel, D. M. Markoff and H. E. Swanson, *Nucl. Inst. and Methods in Phys. Res.* **A457**, 332 (2001).
 153. “Sub-millimeter test of the gravitational inverse-square law: A search for “large” extra dimensions”, C.D. Hoyle, U. Schmidt, B.R. Heckel, E.G. Adelberger, J.H. Gundlach, D.J.Kapner, and H.E. Swanson, *Phys. Rev. Lett.* **86**, 1418 (2001).
 154. “New tests of Einstein’s Equivalence Principle and Newton’s Inverse Square Law”, E.G. Adelberger, *Classical and Quantum Gravity* **18**, 2397 (2001).
 155. “ $^7\text{Be}(p,\gamma)^8\text{B}$ astrophysical S-factor from precision cross section measurements”, A.R. Junghans, E.C. Mohrmann, K.A. Snover, T.D. Steiger, E.G. Adelberger, J.M. Casandjian, H.E. Swanson, L. Buchmann, S.H. Park and A. Zyuzin, *Phys. Rev. Lett.* **88**, 041101 (2002).
 156. “Sub-millimeter tests of the gravitational inverse square law” E.G. Adelberger, *Proceedings of the Second Meeting on CPT and Lorentz Symmetry*, ed. V. Alan Kostelecky, World Scientific (2002), p.9; [hep-ex/0202008](#).
 157. “Reanalysis of $\alpha + \alpha$ scattering and the β -delayed α spectra from ^8Li and ^8B decays”, M. Bhattacharya and E.G. Adelberger, *Phys. Rev. C* **65**, 055502 (2002).
 158. “New Tests of the Strong Equivalence Principle and of the Inverse Square Law”, E. G. Adelberger in “*2001: A Relativistic Spacetime Odyssey: Experiments and Theoretical Viewpoints on General Relativity and Quantum Gravity*”, I. Ciufolini, D. Dominici and L. Lusanna eds. World Scientific (2001).
 159. “Tests of the Gravitational Inverse Square Law”, E.G. Adelberger, B.R. Heckel and A.E. Nelson, *Ann. Rev. Nucl. Part. Sci.* **53**, 77 (2003).
 160. “Constraining the couplings of massive pseudoscalars using gravity and optical experiments”, E.G. Adelberger, E. Fischbach, D.E. Krause and R.D. Newman, *Phys. Rev. D* **68**, 062002 (2003).
 161. “Precise measurement of the $^7\text{Be}(p,\gamma)$ S-factor”, A.R. Junghans, E.C. Mohrmann, K.A. Snover, T.D. Steiger, E.G. Adelberger, J.M. Casandjian, H.E. Swanson, L. Buchmann, S.H. Park, A. Zyuzin and A. Laird, *Phys. Rev. C* **68**, 065803 (2003).
 162. “Sub-millimeter Tests of the Gravitational Inverse-square Law”, C.D. Hoyle, D.J. Kapner, B.R. Heckel, E.G. Adelberger, J.H. Gundlach, U. Schmidt, and H.E. Swanson, *Phys. Rev. D* **70** 042004 (2004).

163. “Analytic Expressions for Gravitational Inner Multipole Moments of Elementary Solids”, E.G. Adelberger, Nathan A. Collins and C.D. Hoyle, *Classical and Quantum Gravity* **22** 1 (2005).
164. “Short-range tests of the gravitational inverse square law” E.G. Adelberger, *Proceedings of the Third Meeting on CPT and Lorentz Symmetry*, ed. V. Alan Kostelecky, World Scientific (2005), p.80.
165. “Testing the Gravitational Inverse-square Law”, E.G. Adelberger, B.R. Heckel and C.D. Hoyle, *Physics World* **18**, 41-45 (April 2005).
166. “Analytic Expressions for Gravitational Inner Multipole Moments of Elementary Solids and for the Force Between Two Rectangular Solids”, E.G. Adelberger, Nathan A. Collins and C.D. Hoyle, *Classical and Quantum Gravity* **23** 125 (2006), corrigendum **23** 5463 (2006).
167. “Precise study of the final-state continuum in ^8Li and ^8B decays”, M. Bhattacharya, E.G. Adelberger and H.E. Swanson, *Phys. Rev. C* **73**, 055802 (2006).
168. “Mass of the lowest $T = 2$ state of ^{32}S : A test of the Isobaric Multiplet Mass Equation”, S. Triambak, A. García, G. J. P. Hodges, E. G. Adelberger, H. E. Swanson, S. A. Hoedl, S. K. L. Sjue and A. L. Sallaska, *Phys. Rev. C* **73**, 054313 (2006).
169. “New CP-violation and preferred-frame tests with polarized electrons”, B. R. Heckel, C. E. Cramer, T. S. Cook, E. G. Adelberger, S. Schlamminger and U. Schmidt, *Phys. Rev. Lett.* **97**, 021603 (2006).
170. “Tests of the Gravitational Inverse-Square Law at the Dark-Energy Length Scale”, D.J. Kapner, T.S. Cook, E.G. Adelberger, J.H. Gundlach, B.R. Heckel, C.D. Hoyle and H.E. Swanson, *Phys. Rev. Lett.* **98** 021101 (2007).
171. “Photon Mass Bounds destroyed by Vortices”, E.G. Adelberger, G. Dvali and A. Gruzinov, *Phys. Rev. Lett.* **98**, 010402 (2007).
172. “Particle physics constraints from a recent test of the gravitational inverse-square law”, E.G. Adelberger, B.R. Heckel, S. Hoedl, C.D. Hoyle, D.J. Kapner and A. Upadhye, *Phys. Rev. Lett.* **98**, 131104 (2007).
173. “Test of the Equivalence Principle Using a Rotating Torsion Balance” S. Schlamminger, K.-Y. Choi, T. A. Wagner, J.H. Gundlach and E. G. Adelberger, *Phys. Rev. Lett.* **100**, 041101 (2008).
174. ”The Apache Point Observatory Lunar Laser-ranging Operation: Instrument Description and First Detections”, T. W. Murphy, Jr., E. G. Adelberger, J. B. R. Battat, L. N. Carey, C. D. Hoyle, P. LeBlanc, E. L. Michelsen, K. Nordtvedt, A. E. Orin, J. D. Strasburg, C. W. Stubbs, H. E. Swanson, and E. Williams, *Pub. Astr. Soc. Pacific* **120**, 20 (2008).

175. "Preferred-Frame and CP-Violation Tests with Polarized Electrons", B. R. Heckel, E. G. Adelberger, C. E. Cramer, T. S. Cook, and S. Schlamminger