



KIRBY W. KEMPER

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Born: April 13, 1940, New York, New York
U.S.A.

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Citizenship:

Education

1962 B.S., Virginia Polytechnic Institute
1964 M.S., Indiana University
1968 Ph.D., Indiana University

Experience

1963-68 Teaching and Research Assistant, Indiana University
1968-71 Research Associate, Florida State University
1971-75 Assistant Professor, Florida State University
1975-79 Associate Professor, Florida State University
1977 Visiting Fellow, The Australian National University
1979-94 Professor, Florida State University
1981 Visiting Fellow, The Australian National University
1985-88 Associate Chair, Physics Department
1982-88 Director, Physics Department Graduate Program
1990-97 Director, Accelerator Laboratory
1994-2000 Distinguished Research Professor
2000- The John D. Fox Professor of Physics
1997-2003 Chair, Physics Department, Florida State University
2002- Robert O. Lawton Distinguished Professor
2003- Vice-President for Research

Organizations

Sigma Pi Sigma; Fellow, American Physical Society; Sigma Xi

Field of Research Interest

Experiments with polarized beams and targets, nuclear structure with radioactive beams.
Teaching of non-physics majors. Explaining the importance of research to the general public. Developing university K- 12 scientist-teacher interactions

Awards

2003 Robert O. Lawton Distinguished Professor (FSU's Highest Faculty Honor)
2000 Jesse W. Beams Medal of the Southeastern Section of the American Physical Society for Significant Research in Physics
1994 Named a Florida State University Distinguished Research Professor
1994 Received a Teaching Incentive Award
1990 College of Arts and Sciences Excellence in Teaching
1983-2003 Co-founder and Lecturer of the Summer High School Science and Math Camp at F.S.U.

Supervised Ph.D. Students

R.L. White (1974)	G.E. Moore (1975)	G.J. Kekelis (1975)
G.M. Hudson (1976)	R.J. Puigh (1976)	L.H. Harwood (1978)
R.I. Cutler (1979)	C.W. Glover (1981)	M.F. Vineyard (1984)
M.E. Clark (1984)	D.P. Sanderson (1986)	S.P. Van Verst (1988)
D.E. Trcka (1989)	A.J. Mendez (1993)	E.L. Reber (1994)
M.A. Tiede (1994)	P.V. Green (1995)	P.L. Kerr (1995)
T.L. Drummer (1998)	P.D. Cathers (2000)	E.E. Bartosz (2000)
	W.D. Weintraub (2003)	

Post-doctoral Advisees

A.W. Obst	M.E. Williams-Norton	A.F. Zeller	G.A. Norton
A.J. Lumpkin	J. Cook	L. A. Park	S.M. Aziz
X. Aslanoglu	F. Marechal	N. Keeley	O. Momotyuk

Post-doctoral Advisor

N.R. Fletcher

Ph.D. Thesis Supervisor

R.G. Wilkinson (deceased)

Selected Recent Publications from 262 Total Publications

“Magic” nucleus ^{42}Si J. Fridmann, I Wiedenhöver, A. Gade, L.T. Baby, D. Bazin, B. A. Brown, C. M. Campbell, J. M. Cook, P. D. Cottle, E. Diffenderfer, D. -C. Dinca, T. Glasmacher, P. G. Hansen, K. W. Kemper, J. L. Lecouey, W. F. Mueller, H. Olliver, E. Rodriguez-Vieitez, J. R. Terry, J. A. Tostevin, and K. Yoneda, *Nature* **435**, 922 (2005)

Generation of a repulsive dynamic polarization potential by transfer couplings, N. Keeley, N. Alamanos, K. Ruske, and K. W. Kemper, *Phys. Rev.* **C71**, 014611(2005)

p-sd Shell Gap Reduction in Neutron-Rich Systems and Cross-Shell Excitations in ^{20}O M. Wiedeking, S. L. Tabor, J. Pavan, A. Volya, A. L. Aguilar, I. J. Calderin, D. B. Campbell, W. T. Cluff, E. Diffenderfer, J. Fridmann, C. R. Hoffman, K. W. Kemper, S. Lee, M. A. Riley, B.T. Roeder, C. Teal, V. Tripathi, and I. Wiedenhöver *Phys. Rev. Lett.* **94**, 132501 (2005)

Reduced Occupancy of the deeply bound $0d_{5/2}$ neutron state in ^{32}Ar , A. Gade, D. Bazin, B. A. Brown, C. M. Campbell, J. A. Church, D. C. Dinca, J. Enders, T. Glasmacher, P. G. Hansen, Z. Hu, K. W. Kemper, W. F. Mueller, H. Olliver, B. C. Perry, L. A. Riley, B. T. Roeder, B. M. Sherrill J. R. Terry, J. A. Tostevin, and K. L. Yurkewicz, *Phys. Rev. Lett.* **93**, 042501 (2004)

DWBA analysis of the $^{13}\text{C}(^6\text{Li},d)^{17}\text{O}$ reaction at 10 MeV/nucleon and its astrophysical implications, N. Keeley, K. W. Kemper, and Dao T. Khoa, *Nucl. Phys.* **A726** 159, (2003)

Dipole polarizability of ^6He and its effect on elastic scattering, K. Rusek, N. Keeley, K. W. Kemper and R. Raabe, *Phys. Rev.* **C67**, 041604(R) (2003)

Scattering of polarized ^7Li from ^4He , K. Rusek, P. D. Cathers, E. E. Bartosz, N. Keeley, K. W. Kemper, and F. Maréchal, *Phys. Rev.* **C67**, 044604 (2003)

Evolution of shell closures in neutron-rich $Z=10-20$ nuclei, P. D. Cottle and K. W. Kemper, *Phys. Rev. C* **66**, 06130 (R) (2002)

$0^+ \rightarrow 2^+$ Excitations in the mirror nuclei ^{32}Ar and ^{32}Si , P. D. Cottle, Z. Hu, B. V. Pritychenko, J. A. Church, M. Fauerbach, T. Glasmacher, R. W. Ibbotson, K. W. Kemper, L. A. Riley, H. Scheit, and M. Steiner, Phys. Rev. Lett. **88**, 172502 (2002)

$^7\text{Li} + ^{12}\text{C}$: Complete sets of analyzing powers for inelastic scattering and single-nucleon stripping, N. Keeley, E. E. Bartosz, P. D. Cathers, M. W. Cooper, K. W. Kemper, F. Maréchal, E. G. Myers, B. G. Schmidt, and K. Rusek, Phys. Rev. C **65** 044613 (2002)