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Education 1979 Ph.D. (Physics), University of Illinois, Urbana
1974 M.S. (Physics), University of Illinois, Urbana
1973 A.B. (Physics), Washington University, St. Louis

Professional Career

1998-present Professor of Physics;
Arizona State University
1992-1998 Associate Professor of Physics;
Arizona State University
1989-1992 Assistant Professor of Physics;
Arizona State University
1986-1989 Assistant Professor of Chemistry;
New York University
1984-1986 Research Scientist;
Courant Institute of Mathematical Sciences
New York University
1982-1984 Post-Doctoral;
Los Alamos National Laboratory
1979-1982 Associate Research Scientist;
Courant Institute of Mathematical Sciences
New York University

Visiting Positions

2011 Visiting Professor
Scuola Internazionale Superiore di Studi Avanzati, January-July
2010 Visiting scientist
New Mexico Consortium, Los Alamos, NM, August-December
2007 Visiting Professor;
Scuola Internazionale Superiore di Studi Avanzati, June-July
2006 Visiting Professor;
Scuola Internazionale Superiore di Studi Avanzati, June-July
2005 Visiting Professor;

2004	Scuola Internazionale Superiore di Studi Avanzati, June-July Visiting Professor;
2003	Scuola Internazionale Superiore di Studi Avanzati, June-July Visiting Professor;
2002	Scuola Internazionale Superiore di Studi Avanzati, January-June Visiting Professor of Physics; University of Illinois, August-January
1996	Visiting Associate Professor; Cornell Theory Center, January-July
1995	Visiting Scientist; International Center for Theoretical Physics and Scuola Internazionale Superiore di Studi Avanzati, August-December
1992	Visiting Professor of Physics; Kent State University, July.

Honors and Societies

Fellow of the American Physical Society
Member of Sigma Xi
Member of Phi Beta Kappa

Publications

1. K.E. Schmidt and V.R. Pandharipande, "Variational Theory of Simple Bose Fluids," Phys. Rev. **A15**, 2486-2495 (1977).
2. K.E. Schmidt and V.R. Pandharipande, "A New Variational Wave Function for Liquid ^3He ," Phys. Rev. **B19**, 2504-2519 (1979).
3. K.E. Schmidt and V.R. Pandharipande, "Variational Theory of Nuclear Matter at Finite Temperatures," Phys. Lett. **87B**, 11-14 (1979).
4. K.E. Schmidt and V.R. Pandharipande, "Improved Variational Wave Functions for Simple Quantum Fluids," Nuc. Phys. **A328**, 240-252 (1979).
5. K.E. Schmidt and V.R. Pandharipande, "Variational Calculations of the Excited States of Liquid ^4He ," Phys. Rev. **B21**, 3945-3955 (1980).

6. K.E. Schmidt, M.H. Kalos, M.A. Lee, and G.V. Chester, "Variational Monte Carlo Calculations of Liquid ^4He with Triplet Correlations," *Phys. Rev. Lett.* **45**, 573-576 (1980).
7. M.A. Lee, K.E. Schmidt, M.H. Kalos, G.V. Chester, "A Green's function Monte Carlo Calculation of the Ground-State Energy of Liquid ^3He ," *Phys. Rev. Lett.* **46**, 728-731 (1981).
8. K.E. Schmidt, M.A. Lee, M.H. Kalos, and G.V. Chester, "The Structure of the Ground-State of a Fermion Fluid," *Phys. Rev. Lett.* **47**, 807-810 (1981).
9. J.W. Moskowitz, K.E. Schmidt, M.A. Lee, M.H. Kalos, "Monte Carlo Variational Study of Be: A Survey of Correlated Wave Functions," *J. Chem. Phys.* **76**, 1064-1067 (1982).
10. S. Fantoni, V.R. Pandharipande, and K.E. Schmidt, "Single Particle Spectrum and Specific Heat of Liquid ^3He ," *Phys. Rev. Lett.* **48**, 878-881 (1982).
11. J.G. Zabolitzky, K.E. Schmidt, M.H. Kalos, "Exact Ground States of Few-Body Nuclei with and without Three-body Forces", *Phys. Rev.* **C25**, 1111-1113 (1982).
12. R.M. Panoff, J.W. Clark, M.A. Lee, K.E. Schmidt, M.H. Kalos, and G.V. Chester, "Variational Monte Carlo Calculations for Spin Aligned Deuterium," *Phys. Rev. Lett.* **48**, 1675-1677 (1982).
13. J.W. Moskowitz, K.E. Schmidt, M.A. Lee, M.H. Kalos, "A New Look at Correlation Energy in Atomic and Molecular Systems II. THE Application of the Green's Function Monte Carlo Method to LiH," *J. Chem. Phys.* **77**, 349-355 (1982).
14. D. Arnow, M.H. Kalos, M.A. Lee, and K.E. Schmidt, "Green's Function Monte Carlo for Few-Fermion Problems," *J. Chem. Phys.* **77**, 5562-2272, (1982).
15. K.E. Schmidt, "Using Renormalization Group Ideas in Monte Carlo Sampling," *Phys. Rev. Lett.* **51**, 2175-2178 (1983).
16. M.A. Lee, K.A. Motakabbir, K.E. Schmidt, "Applications of Green's Function Monte Carlo to One-Dimensional Lattice Fermions," *Lect. Notes in Phys.* **198**, 391-397 (1984).
17. K.E. Schmidt and M.H. Kalos, "Few- and Many-Fermion Problems," in *Applications of the Monte Carlo Method in Statistical Physics II*, Ed. K. Binder, pp. 125-143, (Springer, Verlag, Berlin) 1984.
18. K.E. Schmidt, "Droplets of ^3He Atoms," in *Monte Carlo Methods in Quantum Physics*, Ed. M.H. Kalos, pp 33-39 (Reidel, Dordrecht, 1984).

19. J. W. Moskowitz and K.E. Schmidt, "Can Monte Carlo Methods Achieve Chemical Accuracy," in Monte Carlo Methods in Quantum Physics, Ed. M.H. Kalos, pp 59-70 (Reidel, Dordrecht, 1984).
20. M.A. Lee, K.A. Motakabbir, K.E. Schmidt, "The Ground State of the Extended One-Dimensional Hubbard Model: A Monte Carlo Algorithm," Phys. Rev. Lett. **53**, 1191-1194 (1984).
21. D.W. Skinner, J.W. Moskowitz, M.A. Lee, P.A. Whitlock, and K.E. Schmidt, "The Solution of the Schroedinger Equation in Imaginary Time by Green's Function Monte Carlo. The Rigorous Sampling of the Attractive Coulomb Singularity," J. Chem. Phys. **83**, 4668-4672 (1985).
22. J. Carlson, R.M. Panoff, K.E. Schmidt, P.A. Whitlock, and M.H. Kalos, "Comment on High-Momentum-Transfer Inelastic Neutron Scattering from Liquid Helium-3," Phys. Rev. Lett. **55**, 2367-2367 (1985).
23. J. Carlson, K.E. Schmidt, and M.H. Kalos, "Microscopic Calculations of Alpha-Neutron Scattering," Cond. Matt. Theor., **1**, 79-87 (1986).
24. K.E. Schmidt and J.E. Moskowitz, "Monte Carlo Calculations of Atoms and Molecules," J. Stat. Phys. **43**, 1027-1041 (1986).
25. J.W. Moskowitz and K.E. Schmidt, "The Domain Green's Function Method," J. Chem. Phys. **85**, 2868-2874 (1986).
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27. J. Carlson, K.E. Schmidt, and M.H. Kalos, "Microscopic Calculations of ^5He with Realistic Interactions," Phys. Rev. **C36**, 27-31 (1987).
28. K.E. Schmidt, "Variational and Green's Function Monte Carlo Calculations of Few-Body Systems," in Models and Methods in Few-Body Physics, Lecture Notes in Physics, (Springer, Berlin, 1987).
29. K.E. Schmidt, "Monte Carlo Methods for Ground-State Properties," in Few Body Systems and Multiparticle Dynamics," Ed. D.A. Micha, (American Institute of Physics, New York, 1987).

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32. J.L. Valles and K.E. Schmidt, "Ground-State Properties of the Free Surface of Liquid ^4He ," *Phys. Rev.* **B38**, 2879-2882 (1988).
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35. J. Carlson, J.W. Moskowitz, and K.E. Schmidt, "Model Hamiltonians for Atomic and Molecular Systems," *J. Chem. Phys.* **90**, 1003-1006 (1989).
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37. K.E. Schmidt and S. Vitiello, "Optimized ^4He Wave Functions Using Monte Carlo Integration," *Cond. Matt. Theor.* **5**, 127-132 (1989).
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88. S. Fantoni, A. Sarsa, and K.E. Schmidt, "A New Quantum Monte Carlo Method for Nucleon Systems," *Prog. Part. Nucl. Phys.* **44**, 63-73 (2000).
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