

List of Publications and Talks for David J. Dean

Articles Published in Journals

1. *Atomic Oxygen Simulation and Analysis*, ACTA Astronautica 15, 887 (1987), R. K. Cole, R. G. Albridge, D. J. Dean, R. F. Haglund, C. L. Johnson, H. Pois, P. M. Savundararaj, N.J. Tolk, and J. Ye
2. *Velocity Dependence of Prompt, High-Energy Nucleon Emission*, Phys. Rev. C 40, 1213 (1989), D. J. Dean, A. S. Umar, and M. R. Strayer
3. *Nuclear Hartree-Fock Calculations with Splines*, Phys. Rev. C 44, 2512 (1991), A. S. Umar, M. R. Strayer, J.-S. Wu, D. J. Dean, and C. Guclu
4. *A Dynamical String-Parton Model for Relativistic Heavy-Ion Collisions*, Phys. Rev. C 45, 400 (1992), D. J. Dean, A. S. Umar, J.-S. Wu, and M. R. Strayer
5. *A Dynamical String-Parton Model for Relativistic Heavy-Ion Collisions*, Nucl. Phys. A 544, 475c (1992), A. S. Umar, D. J. Dean, J.S. Wu, and M. R. Strayer
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8. *The Dynamical Evolution of Hadronic Matter in Relativistic Collisions*, Phys. Rev. C 48, 2433 (1993), D. J. Dean, A. S. Umar, and M. R. Strayer
9. *Spline Techniques for Solving Relativistic Conservation Equations*, Int. J. of Mod. Phys. C 4, 723 (1993), D. J. Dean, C. Bottcher, and M. R. Strayer
10. *Pi-K Correlations in Relativistic Heavy-Ion Collisions*, Phys. Lett. B 305, 5 (1993), D. J. Dean and S. E. Koonin
11. *Parallel Implementation of 3+1-Dimensional Relativistic Hydrodynamics*, Int. J. Mod. Phys. C 4, 1023 (1993), D. J. Dean, C. Bottcher, M. R. Strayer, and J. C. Wells
12. *Shell Model Monte Carlo Calculations in ^{170}Dy* , Phys. Lett. B 317, 275 (1993), D. J. Dean, S. E. Koonin, G. H. Lang, B. P. Radha, and W. E. Ormand
13. *Demonstration of the Auxiliary-Field Monte Carlo Approach for s-d Shell Nuclei*, Phys. Rev. C 49, 1422 (1994), W. E. Ormand, D. J. Dean, C. W. Johnson, G. H. Lang, and S. E. Koonin
14. *A Comparison of Flux Correcting and Spline Algorithms for Solving 3+1-Dimensional Relativistic Hydrodynamics*, Phys. Rev. E 49, 1726 (1994), D. J. Dean, C. Bottcher, M. R. Strayer, J. C. Wells, A. von Keitz, Y. Pursun, D. H. Rischke, and J. A. Maruhn

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15. *Practical Solution to the Monte Carlo Sign Problem: Realistic Calculations of ^{54}Fe* , Phys. Rev. Lett. 72, 613 (1994), Y. Alhassid, D. J. Dean, S. E. Koonin, G. Lang, and W. E. Ormand
16. *Complete $0\hbar\omega$ Calculations of Gamow-Teller Strengths for $A\sim 56$* , Phys. Rev. Lett. 72, 4066 (1994), D. J. Dean, B. P. Radha, K. Langanke, S. E. Koonin, Y. Alhassid, and W. E. Ormand
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18. *Thermal Properties of ^{54}Fe* , Phys. Rev. Lett. 74, 2909 (1995), D. J. Dean, S. E. Koonin, K. Langanke, P. B. Radha, and Y. Alhassid
19. *Shell-Model Studies of f - p Shell Nuclei*, Phys. Rev. C 52, 718 (1995), K. Langanke, D. J. Dean, P. B. Radha, Y. Alhassid, and S. E. Koonin
20. *Temperature Dependence of the Nuclear Symmetry Energy*, Phys. Lett. B 356, 429 (1995), D. J. Dean, S. E. Koonin, K. Langanke, and P. B. Radha
21. *Complete $0\hbar\omega$ Shell-Model Monte Carlo Calculations of ^{96}Pd , ^{94}Ru , $^{96,98}\text{Cd}$, and ^{100}Sn* , Phys. Lett. B 367, 17 (1996), D. J. Dean, S. E. Koonin, T.T.S. Kuo, K. Langanke, and P. B. Radha
22. *SMMC Method for Two-Neutrino Double Beta Decay Matrix Elements*, Phys. Rev. Lett. 76, 2642 (1996), P. B. Radha, D. J. Dean, S. E. Koonin, T.T.S. Kuo, K. Langanke, A. Poves, and P. Vogel
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24. *Shell-Model Monte Carlo Studies of Gamma Soft Nuclei*, Phys. Rev. Lett. 77, 1444 (1996), Y. Alhassid, G. Bertsch, D. J. Dean, and S. E. Koonin
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28. *Spin-Dependent Neutralino-Nucleus Scattering for $A\sim 127$ Nuclei*, Phys. Rev. C 56, 535 (1997), M. T. Ressel and D. J. Dean
29. *Origin of the Wigner Energy*, Phys. Lett. B 407, 103 (1997), W. Satula, D. J. Dean, J. Gary, S. Mizutori, and W. Nazarewicz
30. *Results from Shell-Model Monte Carlo Studies*, Ann. Rev. Nucl. Part. Sci. 47, 463 (1997), S. E. Koonin, D. J. Dean, and K. Langanke

31. *Gamow-Teller Strength Distributions in f - p Shell Nuclei*, Phys. Rev. C 56, 3079 (1997), P. B. Radha, D. J. Dean, S.E. Koonin, K. Langanke, and P. Vogel
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39. *Shell-Model Monte Carlo Investigation of Rare-Earth Nuclei*, Phys. Rev. C 61, 034303 (2000), J. A. White, S. E. Koonin, and D. J. Dean
40. *Calculation of Exciton Densities in SMMC*, Phys. Rev. C 60, 054306 (1999), D. J. Dean and S. E. Koonin
41. *B-B Inter-Meson Potentials in the Quark Model*, Phys. Rev. C 60, 045202 (1999), T. Barnes, N. Black, D. J. Dean, and E. S. Swanson
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48. *Effect of Nuclear Structure on Type Ia Supernova Nucleosynthesis*, Nucl. Phys. A 688, 189c (2001), D. J. Dean
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61. *Phases: From Nuclei to Quantum Dots*, Nucl. Phys. A 704, 264 (2002), D. J. Dean
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David J. Dean, Publications and talks list (September 2006)

76. *Gamow-Teller GT+ distributions in nuclei with mass $90 \leq A \leq 97$* , A. Juodagalvis and D.J. Dean, Phys. Rev. C72, 024306 (2005)
77. *Identification of low-spin states in Sb-111: Test of spin-orbit coupling in light nuclei*, J. Shergur, D.J. Dean, A. Juodagalvis, D. Seweryniak, W.B. Walters, A. Wöhr, B. Boutachkov, C.N. Davids, I. Dillmann, G. Mukherjee, S. Sinha, A. Teymauryan, and I. Zartova, Phys. Rev. C71, 064323 (2005)
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Popular Articles/Advisory Reports

1. *Monte Carlo Shell-Model Methods*, D. J. Dean and S. E. Koonin, Newsletter of the Concurrent Supercomputing Consortium, vol.13 no.5, 1, 1994
2. *Monte Carlo Shell-Model Applications to Nuclear Structure and Astrophysics*, D. J. Dean, K. Langanke, P. B. Radha, and S. E. Koonin, Newsletter of the Concurrent Supercomputing Consortium, vol.13 no.8, 1, 1995
3. *ORNL Theorists and the Nuclear Shell Model*, ORNL Review, 34 (2001)
4. *Designing Electronic Devices Using Supercomputers*, ORNL Review, 35 (2002)
5. *DOE Greenbook: Needs and Directions in High-Performance Computing for the Office of Science: A Report from the NERSC User Group*, D. J. Dean, Greenbook HENP coordinator, April, 2002
6. *Opportunities in Nuclear Science: A Long-Range Plan for the Next Decade*, major contributor to the section Nuclear Structure Theory (pp. 32-35) April 2002

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8. Joint Study on the future of neutrino physics (APS Neutrino Study) *Neutrinoless double beta decay and direct searches for neutrino mass*, report written by C. Aalseth, H. Back, L. Dauwe, D.J. Dean, G. Drexlin, Y. Efremenko, H. Ejiri, S. Elliott, J. Engel, B. Fujikawa, R. Henning, J. Hoffman, K. Lang, K. Lesko, T. Kishimoto, H. Miley, R. Norman, S. Pascoli, S. Petcov, A. Piepki, W. Rodejohann, D. Saltzberg, S. Sutton, P. Vogel, R. Warner, J. Wilkerson, and L. Wolfenstein (2004).
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11. *Report from the workshop on Nuclear Physics and Related Computational Science R&D for Advanced Fuel Cycles*, Group D breakout write-up, L. Schroeder and E. Lusk, editors.

International Conferences and Workshops — with associated Proceedings

1. *A Dynamical Picture of Hadron-Hadron Collisions with the String-Parton Model*, D. J. Dean, A. S. Umar, J.-S. Wu, and M. R. Strayer, Proceedings of the Conference on Computational Quantum Physics, ed. C. Bottcher, A.S. Umar, and M. R. Strayer, (AIP, New York, 1992, p. 159)
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6. *Monte-Carlo Methods for the Nuclear Shell Model*, D. J. Dean, Proceedings of The Second International Conference on Computational Physics, Beijing, China, 1993, International Press, 1993 (edited by D.Y. Li et al), p. 99
7. *Monte Carlo Shell Model Calculations*, D. J. Dean, invited talk, Spring Meeting of the American Physical Society, Washington, D.C., 1994<http://flux.aps.org/meetings/YR9394/BAPSAPR94/q1.html>

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15. *Correlated Magneto-Excitons in Semiconductor Quantum Dots at Finite Temperature*, D. J. Dean, J. C. Wells, and M. R. Strayer, Materials Research Society Fall Meeting, 30 Nov - 2 Dec 1999, Boston MRS Symposium Proc. 579 (ed. by E. Shirly, et al.) p. 117 (2000)
16. *Phases: From Nuclei to Quantum Dots*, D. J. Dean, RIKEN Symposium: Shell Model 2000, Tokyo, Japan, 5-8 March 2000 (ref listed in refereed papers)
17. *Shell-Model Monte Carlo Calculations in Nuclei*, D. J. Dean, in Condensed Matter Theories, Vol. 14, ed. by D. J. Ernst, L. E. Parakis, and A. S. Umar, (Nova Science Publishers, Huntington, NY, 2001) pp. 251-258
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19. *Calculating Neutrino-Nucleus Interactions*, D. J. Dean, Proceedings of Carolina Symposium on Neutrino Physics, Columbia, SC, 10-12 March 2000, ed. by J. Bachall et al. (World Scientific, Singapore) p. 258 (2001)
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32. *Coupled-cluster calculations for nuclei*, D.J. Dean, Proceedings of Radioactive Nuclear Beams 6, Argonne, IL, 22-26 September 2003, in press
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David J. Dean, Publications and talks list (September 2006)

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48. *The Nuclear Structure and Low-Energy Reactions (NSLER) Collaboration*, D.J. Dean, in press Journal of Physics, Conference Series (2006). Invited Poster at the SciDAC 2006 Meeting, Denver.
49. *Coupled-cluster theory for nuclei*, 3rd ANL/MSU/INT RIA Theory Workshop, Argonne, IL, 4-7 April, 2006, Proceedings in press (World Scientific)

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1. *Auxiliary-Field Monte Carlo Calculations in the Nuclear Shell Model*, D. J. Dean, Hong Kong Workshop on Computational Physics, Hong Kong, 1993
2. *The Monte Carlo Shell Model: Realistic Interactions in Mid-f-p-Shell Nuclei*, D. J. Dean, International Workshop on High Spins and Novel Deformations, ETC*, Trento, Italy, 1993
3. *Various Topics on the Monte Carlo Shell Model*, D. J. Dean, International Workshop on Monte Carlo Techniques in Nuclear Physics, ETC*, Trento, Italy, 1994
4. *Monte Carlo Calculations in Nuclear Physics: A Path Integral Approach to the Nuclear Shell Model*, D. J. Dean, Workshop on New Methods in Electronic Structure Calculations, Institute for Theoretical Physics, Santa Barbara, 1994
5. *Nuclear Astrophysics from the Monte Carlo Shell Model*, D. J. Dean, Summer Workshop on Nuclear Astrophysics, Oak Ridge National Laboratory, Summer 1994.
6. *Monte Carlo Methods for the Nuclear Shell Model*, D. J. Dean, VII Jorge Andre Swieka Summer School in Nuclear Physics, Campos do Jordao, Brazil, February, 1995
7. *Exact Shell-Model Calculations*, D. J. Dean, Nuclear Science Advisory Committee, Nuclear Theory Long Range Plan Town Meeting, Argonne, February, 1995
8. *Applications of the Shell-Model Monte Carlo Method*, D. J. Dean, International Workshop on Spin and Isospin Physics in Nuclei, ETC* Trento, Italy, April 1995
9. *Shell-Model Monte Carlo for Nuclear Structure*, D. J. Dean, International Conference on Computational Physics III, Chung-Li, Taiwan, 13-17 November 1995
10. *Shell-Model Monte Carlo Studies of Thermal Properties in Nuclei*, D. J. Dean, Workshop on Neutron-Induced Gamma Ray Physics at LANSCE/WNR, Los Alamos National Laboratory, 6-7 May 1996

11. *Shell-Model Monte Carlo Calculations of $N=Z$ Nuclei and Pairing Near the Proton Drip Line*, D. J. Dean, International Workshop on Structure of Nuclei Far from Beta Stability, ETC*, Trento, Italy, 20-31 May 1996
12. *The Shell Model*, lectures presented at the Summer School in Nuclear Physics, Seattle, Washington, 10-21 June 1996
13. *Shell-Model Monte Carlo Calculations Near $N=Z$* , D. J. Dean, International Conference on Nuclear Structure at the Limits, Argonne, Illinois, 22-26 July 1996
14. *Shell-Model Monte Carlo Calculations of Exotic Nuclei*, D. J. Dean, Gull Lake Conference on Nuclear Physics Near the Drip Lines, Gull Lake, Michigan, 21-24 August 1996
15. *Shell-Model Monte Carlo Studies of Pairing in Nuclei*, D. J. Dean, Second Workshop on Gammasphere at Atlas, 9-11 May 1997, Argonne, IL
16. *Modern Theoretical Techniques for the Nuclear Many-Body Problem*, D. J. Dean, International Workshop on the Nuclear Many-body problem, 26 May - 6 June, 1997, ECT*, Trento, Italy
17. *Correlated Wave Functions in Nuclei Far from Stability*, D. J. Dean, Workshop on the Science for an Advanced ISOL Facility, Columbus, Ohio, 30 July - 1 August, 1997
18. *Computational Nuclear Structure: Challenges, Rewards, and Prospects*, D. J. Dean, International Symposium on New Spectroscopy and Nuclear Structure 1997, Copenhagen, Denmark, 16-20 September, 1997
19. *Progress in Shell-Model Monte Carlo Studies*, D. J. Dean, ANL Nuclear Theory Institute, 3-7 August 1998, Argonne, Illinois
20. *Monte Carlo Calculations in Medium-Mass Nuclei and Nuclear Matter*, D. J. Dean, Los Alamos Workshop on Realistic Interactions in Nuclei, Los Alamos, NM, 1-4 November 1998
21. *Monte Carlo Methods in the Shell Model*, D. J. Dean, Workshop on Shell-Model Related Problems, Copenhagen, Denmark, 17-20 December 1998
22. *Recent Advances in Shell-Model Monte Carlo Studies of Nuclei*, D. J. Dean, Argonne Theory Institute on Advanced Computational Methods in the Nuclear Many-Body Problem, Argonne, 2-6 August 1999.
23. *Recent Progress in Shell-Model Monte Carlo Calculations of Finite Nuclei*, D. J. Dean, Workshop on Frontiers in Quantum Monte Carlo: Fermions, Institute for Nuclear Theory, Seattle, 22-25 September 1999.
24. *Partial Level Densities and Other Recent Progress in Shell-Model Monte Carlo Calculations for Nuclei*, D. J. Dean, International Workshop on Nuclear Level Densities Livermore National Laboratory, Livermore, 18-19 October 1999.

David J. Dean, Publications and talks list (September 2006)

25. *Shell-Model Monte Carlo Calculations of Nuclei Far from Beta Stability*, D. J. Dean, International Conference on Structure of the Nucleus at the Dawn of the Century, Bologna, 29 May - 3 June 2000.
26. *Theoretical Perspectives on RIA*, D. J. Dean, RIA 2000 Workshop, Durham, North Carolina, 24-26 July 2000.
27. *Programmed Assembly of Nanostructures for Computing via DNA Templates*, J. C. Wells, L. Maya, M. Govindaragan, K. Stevenson, T. G. Thundat, J. Barhen, D. J. Dean, and M. R. Strayer, Symposium on Biologically and Physically Inspired Computation, July, 2000.
28. *NUGeX Meeting: HENP Computational Needs*, D. J. Dean, Greenbook presentation, NERSC, Berkeley, 22 February 2001.
29. *Review of Recent Advances in the Shell Model*, D. J. Dean, ISOL'01 conference, Oak Ridge, TN, 11-15 March 2001.
30. *Theoretical Perspectives on RIA*, D. J. Dean, ECT* Workshop on Current Theoretical and Experimental Investigations of the Nuclear Many-Body Problem and Applications, Trento, Italy, September, 2001.
31. *First Steps in Nuclear Coupled-Cluster Theory*, D. J. Dean, ECT* Workshop on Continuum Aspects of the Nuclear Shell Model, Trento, Italy, June, 2002
32. *Nuclear Structure Calculations on the QCDOC*, D. J. Dean, Large-Scale Computations in Nuclear Physics Using the QCDOC, RIKEN/BNL Research Center Workshop, Brookhaven National Lab, 26-28 September 2002
33. *Coupled-Cluster Theory*, D. J. Dean, INT Workshop on Double-Beta Decay, Seattle, 21-24 October, 2002.
34. *Computational many-body methods: coupled cluster theory*, D.J. Dean, Surrey workshop on nuclear theory, January 2003
35. *Computational many-body problems in nuclear physics*, D.J. Dean, ECT* Workshop on Recent Advances in the Nuclear Shell Model, 30 June – 11 July, 2003.
36. *Neutrino detection and nuclear structure research*, D.J. Dean, ORNL conference on neutrinos at the SNS, 28-29 July 2003, Oak Ridge, TN
37. *Quantum Many-body problems and their solutions*, D.J. Dean, Kick-Off Conference, Center for Mathematics for Applications, 1-2 September 2003, Oslo, Norway
38. *Coupled-cluster methods for nuclei*, D.J. Dean, Program on Theories of nuclear forces and nuclear systems, Institute for Nuclear Theory, Seattle, Washington, September—December 2003.
39. *Neutrinoless double-beta decay and the nuclear many-body problem*, APS neutrinoless double-beta decay and direct mass measurements workshop, Pasadena, 27-28 February

40. *Coupled-cluster approaches to nuclear physics*, Centre of Mathematics for Applications workshop on Computational Advances in the Nuclear Many-Body Problem, 11-13 March 2004, University of Oslo, Norway.
41. *Quantum Monte Carlo algorithms in nuclear physics*, Centre of Mathematics for Applications workshop on Finance and Physics, 22-23 March 2004, University of Oslo, Norway
42. *Nuclear coupled-cluster theory*, D.J. Dean, Workshop on p-shell nuclei, 22-24 July 2004, NSCL-MSU.
43. *Nuclear applications of coupled-cluster theory*, 2005 Winter workshop on nuclear dynamics, Breckenridge, CO (6-12 February 2005), proceedings to be published.
44. *Thermal properties of $N=40$ nuclei*, RIKEN workshop on Collective Motion in unstable nuclei: experiment vs. theory, RIKEN, Tokyo, Japan, 24-26 May 2005.
45. *Calculating nuclear structure with coupled-cluster theory*, YITP workshop on New developments in nuclear self-consistent mean-field theories, Yukawa Institute of Theoretical Physics, Kyoto, Japan, 30 May – 1 June 2005.
46. *Coupled-cluster theory applications to nuclei*, INT 05-3, Nuclear Structure near the limits of stability”, September-December 2005, University of Washington, Seattle.
47. *Calculating Nuclei*, Workshop on High-Performance Computing in Physics, Oslo University, 4 November 2005.
48. *Leadership class computing: ab initio nuclear structure calculations*, First NCCS Users group meeting, 13, 14 February 2006, ORNL
49. *Challenges in nuclear structure*, Theory Network for Nuclear Structure and Reactions, Town meeting and workshop, 10-12 April 2006, Surrey, England
50. *Coupled-cluster theory for nuclei*, Theory Network for Nuclear Structure and Reactions, Town Meeting and workshop, 10-12 April 2006, Surrey, England
51. *Future directions in nuclear structure theory*, Nuclear Structure Opportunities with Reaccelerated Beams, 1-2 May 2006, MSU, East Lansing, Michigan
52. *Nuclear structure theory with coupled cluster techniques*, 1st Southern Mediterranean Summer Workshop on Subatomic Physics, 29 May – 3 June 2006, Tunis, Tunisia
53. *Thermal and rotational properties of $N=40$ isotopes*, 1st Southern Mediterranean Summer Workshop on Subatomic Physics, 29 May – 3 June 2006, Tunis, Tunisia
54. *The nuclear many-body problem*, Set of 5 lectures at the 18th National Nuclear Physics Summer School, Bloomington, IN, 23 July – 5 August 2006
55. *Aspects of Nuclear theory for AFC*, Nuclear physics and related computational science R&D for advanced fuel cycles, 10-12 August, Bethesda, Maryland, also *Group D Report*

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2. Dynamical String-Parton Model in Relativistic p-p and Heavy-Ion Collisions, D. J. Dean, J. Wu, M. R. Strayer, and A. S. Umar, *Bull. Am. Phys. Soc.* 36, 1401 (1991)
3. Dynamical Evolution of Hadronic Matter in Relativistic Heavy-Ion Collisions, D. J. Dean (invited), SESAPS, *Bull. Am. Phys. Soc.* 38, 2170 (1993).
4. The Spectroscopy of ^{60}Ni , W.D. Weintraub, H-Q. Jin, W. Reviol, L. L. Riedinger, C. Baktash, M. J. Brinkman, D. J. Dean, C-H. Yu, M. Devlin, D. R. LaFosse, D. G. Sarantites, M. Leddy, I. Y. Lee, A. O. Macchiavelli, D. Rudolph, 1997 APS April Meeting, Washington, D.C.
5. Pairing in N~Z nuclei, W. Satula, D. J. Dean, J. Gary, S. Mizutori, and W. Nazarewicz, 1997 APS April Meeting, Washington, D.C.
6. Particle Identification in the Dynamical String-Parton Model, D. E. Malov, A. S. Umar, D. J. Ernst, D. J. Dean, *B.A.P.S.* vol.43, No.2, 1179 (1998)
7. Hadrons as a Distribution of Classical Strings, D. E. Malov, A. S. Umar, D. J. Ernst, D. J. Dean, *B.A.P.S.* vol.43, No.2, 1179 (1998)
8. Fundamental Physics Opportunities at the Spallation Neutron Source, V. Cianciolo, D. Dean, P. Koehler, F. Plasil, G. Young, Y. Kamyshkov, <http://www.aps.org/meet/DNP99/baps/abs/S330011.html>
9. Nuclear Structure in the Mass 90 Region, J. A. White, D. J. Dean, M. Hjorth-Jensen, E. Ormand, and S. E. Koonin, <http://www.aps.org/meet/DNP99/baps/abs/S290006.html>
10. Dynamical String-Parton Model with Particle Identification in Relativistic Heavy-Ion Collisions, A. S. Umar, D. E. Malov, D. J. Ernst, D. J. Dean, <http://www.aps.org/meet/DNP99/baps/abs/S360012.html>
11. Application of String-Parton Model to p+A Collisions, D. E. Malov, A. S. Umar, D. J. Ernst, D. J. Dean, <http://www.aps.org/meet/DNP99/baps/abs/S360013.html>
12. Auxiliary Field Monte Carlo Techniques Applied to Nuclei and Quantum Dots, D. J. Dean, <http://www.aps.org/meet/DNP00/baps/abs/S1290003.html>
13. Nuclear Theory for RIA, D.J. Dean, <http://www.aps.org/meet/DNP00/baps/abs/S1720011.html>
14. First Observation of ^{109}Te β^+ and EC Decay to Levels in ^{109}Sb , J. Shergur, J. Ressler, W. Walters, C. Davids, D. J. Dean, A. Heinz, M. Hjorth-Jensen, and D. Seweryniak, <http://www.aps.org/meet/DNP02/baps/abs/S950014.html>
15. Nuclear Structure Theory with Coupled-Cluster Techniques, D.J. Dean (invited talk), <http://meetings.aps.org/Meeting/APR06/Event/47389>