

CURRICULUM VITAE

Christopher F. Kolda

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Education

- 1995 **University of Michigan** Ann Arbor, Michigan
Ph.D. in Physics (Particle Theory).
- 1992 **University of Michigan** Ann Arbor, Michigan
M.S. in Physics.
- 1990 **Johns Hopkins University** Baltimore, Maryland
B.A. in Physics and Astronomy.

Research and Teaching Positions

- 2006- **University of Notre Dame**, Associate Chair & Director of
Undergraduate Studies, Department of Physics
- 2004- **University of Notre Dame**, Associate Professor of Physics
- 2000-04 **University of Notre Dame**, Assistant Professor of Physics
- 1998-00 **Lawrence Berkeley National Laboratory &**
University of California - Berkeley, Postdoctoral Fellow
Postdoctoral research in particle physics.
- 1995-98 **Institute for Advanced Study**, Member
Postdoctoral research in particle physics.
- 1991-95 **University of Michigan**, Doctoral Fellow
- 1987-90 **Johns Hopkins University**, Research Assistant
Worked on E776 ν -oscillation experiment and the CERN L3 experiment.

Awards and Honors

- 2005 **Kaneb Teaching Award**, University of Notre Dame
Award for outstanding teaching in the College of Science.
- 1997-98 **Helen and Martin Chooljian Member**, Institute for Advanced Study
Endowed membership in the School of Natural Sciences.
- 1994-95 **Rackham Fellow**, University of Michigan
For outstanding graduate research program.
- 1990-93 **Regents-Crane Fellow**, University of Michigan
For an outstanding graduate student in physics.
- 1990 **Valedictorian and Donald E. Kerr Award**, Johns Hopkins University
Graduated first in class & outstanding undergraduate in physics.
- 1989 **Phi Beta Kappa**, Johns Hopkins University

Invited Conference Talks

- “Supersymmetry and the Prospects for a Super-B Factory,” at the *3rd Workshop on a Super Flavor Factory (SuperB III)*, June 2006, Stanford Linear Accelerator Center, California.
- “New Physics, Minimal Flavor Violation and Double β -Decay,” at the *14th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY-06)*, June 2006, Irvine, California.
- “Conference Summary: Electroweak Physics and Beyond,” at the *2006 Conference on the Intersections of Particle and Nuclear Physics (CIPANP '06)*, June 2006, Rio Mar, Puerto Rico.
- “SUSY at Hadron Colliders: What to Expect and When to Expect It,” at the Aspen Summer Workshop, Aspen Center for Physics, June 2005.
- “Minimal Flavor Violation at Large $\tan\beta$: A Review,” at the *12th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY-04)*, June 2004, Tsukuba, Japan.
- “New Physics Phases in CP Violation: Supersymmetry,” at the *Super B-Factory Workshop in Hawaii*, January 2004, University of Hawaii, Honolulu, Hawaii.
- “CP Asymmetries in Supersymmetry,” at the *2nd Workshop on the Discovery Potential of an Asymmetric B-Factory at 10^{36} Luminosity*, October 2003, Stanford Linear Accelerator Center, California.
- “Penguins of a New Breed: Flavor Changing in the SUSY Higgs Sector,” at the *2nd International Conference on Flavor Physics*, October 2003, Korean Institute for Advanced Study, Seoul, Korea.
- “Higgs-Mediated Lepton Flavor Violation,” at the *11th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY-03)*, June 2003, Tucson, Arizona.
- “Flavor Changing at Large $\tan\beta$,” at the *2002 Argonne Theory Institute Workshop*, September 2002, Argonne National Lab, Illinois.
- “Rare B^0 Decays at the Tevatron,” at the *10th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY-02)*, June 2002, Hamburg, Germany.
- “The Cosmological Triple Coincidence Problem,” at the *APS Division of Particle and Fields 2002 Conference (DPF2002)*, May 2002, Williamsburg, Virginia.
- “Electroweak Physics, Quintessence and the Cosmic Coincidence Problem,” at the annual United Kingdom *Beyond the Standard Model Cosmology Meeting*, August 2001, Ambleside, England.
- “Particle Physics in an Accelerating Universe,” at the *2001 Argonne Theory Institute Workshop*, June 2001, Argonne National Lab, Illinois.
- “Extracting parameters from supersymmetric heavy Higgs bosons,” at the *Fermilab 2000 Linear Collider Workshop*, October 2000, Batavia, Illinois.
- “Flavor Violation as a Probe of the MSSM Higgs Sector,” at the *VII International Symposium on Particles, Strings and Cosmology (PASCOS-99)*, December 1999, Lake Tahoe, California.
- “Branes and 5-Dimensional Cosmology,” at the *Cosmic Genesis and Fundamental Physics Workshop*, October 1999, Rohnert Park, California.
- “Quintessence and Supersymmetry,” at the *VII International Conference on Supersymmetries in Physics (SUSY-99)*, June 1999, Fermilab, Illinois.

- “Constraints and Signals for Extra Dimensions,” at the *VII International Conference on Supersymmetries in Physics (SUSY-99)*, June 1999, Fermilab, Illinois.
- “Higgs Physics and Signals for Extra Dimensions,” at the *Symposium on Phenomenology for the Third Millennium (PHENO 99)*, April 1999, Madison, Wisconsin.
- “Gauge Mediated Supersymmetry Breaking: Theory and Signals,” at the *Hadron Collider Physics XII Conference*, June 1997, Stony Brook, New York.
- “Gauge Mediated SUSY Breaking: Introduction, Review and Update” hep-ph/9707450, at the *V International Conference on Supersymmetries in Physics (SUSY-97)*, May 1997, Philadelphia, Pennsylvania.
- “Semi-Perturbative Unification,” at the *International Symposium on Recent Developments in Phenomenology (PHENO 97)*, March 1997, Madison, Wisconsin.
- “Introduction to Gauge-Mediated Supersymmetry Breaking,” at the *Summer Workshop on the Flavor and Gauge Hierarchy Problems*, June 1996, Aspen Center for Physics, Aspen, Colorado.
- “Leptophobic $U(1)$ ’s and R_b, R_c at LEP,” at the *IV International Conference on Supersymmetries in Physics (SUSY-96)*, May 1996, College Park, Maryland.
- “Leptophobic $U(1)$ ’s and the R_b – R_c Crisis,” at the *International Symposium on Recent Developments in Phenomenology (PHENO 96)*, April 1996, Madison, Wisconsin.
- “D-Terms and Flat Directions,” at the *Southeastern Regional Mini-Workshop on Supersymmetry*, November 1995, Wakulla Springs, Florida.
- “Is R_b at LEP telling us that supersymmetry will soon be found?” at the *IV International Conference of Physics Beyond the Standard Model*, December 1994, Lake Tahoe, California.
- “Constrained Minimal Supersymmetry with Stringy Assumptions,” at the *International Workshop on Supersymmetry and Unification of the Fundamental Interactions (SUSY-94)*, May 1994, Ann Arbor, Michigan.

General Public Lectures

- “Einstein’s Last Quest: The Search for Extra Dimensions and Parallel Universes,” Miller Memorial Lecture, February 24, 2005, University of Notre Dame.
- “Relativity and Einstein,” Miller Memorial Lecture, June 4, 2005 (Reunion Weekend), University of Notre Dame.
- “God’s Dice: Einstein and the Journey from the Wedgewood Kilns to the Uncertainty Principle,” November 5, 2005 (Tennessee Football Game Pre-Lecture), University of Notre Dame.

Other Invited Lectures (1995–present):

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| 1995: | February 7 | Rutgers University |
| | May 5 | Oxford University (England) |
| | November 10 | University of Florida |
| 1996: | May 7 | Rutgers University |
| | October 7 | University of Pennsylvania |
| | October 11 | Johns Hopkins University |
| | November 13 | Univ. of Pittsburgh & Carnegie-Mellon Univ. |
| 1997: | May 1 | Brookhaven National Lab |

1998:	January 22	Fermi National Accelerator Lab (Fermilab)
	February 10	Rutgers University
	March 6	Massachusetts Institute of Technology (MIT)
	April 17	Texas A&M University
	May 15	Virginia Tech University
	October 14	Stanford Linear Accelerator Center (SLAC)
	December 2	University of Lancaster (England)
	December 15	Univ. of California, Davis
1999:	January 19	Univ. of California, Irvine
	February 22	University of Pennsylvania
	March 3	Rutgers University
	April 28	Univ. of California, Berkeley / LBNL
	October 4	California Institute of Technology (Caltech)
	October 21	Univ. of California, Berkeley / LBNL
	October 26	Univ. of California, Davis
	December 2	Univ. of California, Santa Barbara
December 6	Univ. of California, San Diego	
2000:	January 12	Univ. of California, Berkeley / LBNL
	January 20	Fermi National Accelerator Lab (Fermilab)
	January 24	University of Pennsylvania
	February 25	University of Notre Dame
	April 11	University of California, Berkeley / LBNL
	May 4	University of California, Davis
	October 3	Purdue University
	October 16	University of Illinois
2001:	March 16	University of Michigan
	March 27	Michigan State University
	April 18	University of Texas, Dallas
	April 19	Oklahoma State University
2002:	November 1	University of Michigan
	December 12	University of Minnesota
2003:	February 18	University of Arizona (seminar & colloquium)
	April 7	Massachusetts Institute of Technology
	November 18	University of Oxford (2 seminars)
2004:	April 8	Washington University
	November 29	University of Pennsylvania
2005:	September 19	Institute for Advanced Study & Princeton University
	November 15	Michigan State University
	November 28	University of Illinois
2006:	February 14	Oxford University

University & Departmental Duties

Associate Departmental Chair: Beginning July 2006, I will serve as associate chair of the physics department, with primary responsibility as Director of Undergraduate Studies (see below), but also working with the Chair in all aspects of departmental life, from hiring and promotions, to student life, to college and university relations.

Director of Undergraduate Studies: Beginning July 2006, I will take charge of the physics undergraduate program, including overseeing all student advising, deciding on course offerings and faculty teaching responsibilities, spearheading course development, leading undergraduate recruitment, and taking primary responsibility for the “pastoral care” of our 50 - 70 physics majors.

Undergraduate Advisor: I advise all of the Notre Dame junior physics majors (25 students) on their courses and travel abroad, and introduce them to physics research through a special seminar I run.

Strategic Planning Committee: (Chair) Responsible for planning new hiring in the department and setting 5-year strategic goals.

Notre Dame Honors Program: (Physics liaison) Responsible for organizing Physics Department participation in Honor Program courses and activities.

Colloquium Committee: (former Chair, now Member) Responsible for planning departmental colloquia.

Undergraduate Curriculum Committee: (Member) Responsible for overhauling our undergraduate curriculum, which we have mostly just completed.

Space Utilization Committee: (Theory representative) Responsible for allocation of laboratory and office space in the department.

Graduate Recruitment Committee: (former Member) Responsible for recruiting accepted graduate students into the department.

Professional Memberships, Activities and Visiting Positions

Member of the American Physical Society, Division of Particles and Fields, 1994 – present, and Forum on Physics & Society, 2000 – present.

Member of the Organizing Committee and Co-Editor of the Proceedings, *SUSY-94 Workshop*, May 1994, Ann Arbor, Michigan.

Member of the Supersymmetric Theory Working Group, *Workshop on New Directions for High Energy Physics (Snowmass '96)*, June 1996, Aspen, Colorado.

Participant in the Aspen Summer Workshops, Aspen Center for Physics, 1996, 1997, 1999, 2001 and 2005.

Contributor to the *Review of Particle Physics*, 1997 – present.

Visiting Scientist, University of Lancaster (England), Nov – Dec 1998.

Organizer of the 1999 LBNL Summer Visitor Program and the 1999–2000 LBNL Visitor Program.

Member of the Particle Data Group, 1999 – present.

Member, Institute for Theoretical Physics, University of California, Santa Barbara, Nov – Dec 1999.

Member of the “Scales Beyond 1 TeV” Working Group, *Workshop on the Future of Particle Physics (Snowmass '01)*, June 2001, Aspen, Colorado.

Convenor, *Beyond the Standard Model Sessions*, APS Division of Particles and Fields 2002 Conference (DPF2002), May 2002, Williamsburg, Virginia.

Summer Visitor, CERN, May-June 2002.

Scientific Organizing Committee, *11th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY '03)*, June 2003, Tucson, Arizona.

Visiting Scientist, University of Pennsylvania, November 2004.

Scientific Organizing Committee, *13th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY-05)*, Durham, England.

National Science Foundation (NSF) High-Energy Physics Review Panel, 2005 & 2006.

Scientific Organizing Committee, *Conference on the Intersections Between Particle and Nuclear Physics (CIPANP '06)*, June 2006, Puerto Rico.

Referee for the journals *Physical Review*, *Physical Review Letters*, *Physics Letters*, *Nuclear Physics*, and the *Journal of High-Energy Physics*.

Grants and Funding

2004–07 **National Science Foundation Grant**, “Probing the Physics of the Hierarchy Problem” (renewal), NSF-PHY03-55066.

2001–04 **National Science Foundation Grant**, “Probing the Physics of the Hierarchy Problem,” NSF-PHY00-98791.

2001 Notre Dame Center for Applied Mathematics, sponsored Mark Byrne for a Summer Graduate Fellowship.

2002 Notre Dame Center for Applied Mathematics, sponsored Dylan Menzies-Gow for a Summer Graduate Fellowship.

2002 Notre Dame Graduate School, sponsored Jason Lennon for a Summer Grant-Writing Fellowship.

2003 Notre Dame Center for Applied Mathematics, sponsored Mark Byrne for a Graduate Fellowship.

Theses Directed

2004 J. Lennon, Ph.D. Thesis, “Phenomenology of Supersymmetry with Large $\tan \beta$.”

2004 M. Byrne, Ph.D. Thesis, “Phenomenological Studies in Supersymmetric and Higher Dimensional Extensions of the Standard Model of Particle Physics.”

2001 William Lahneman, Undergraduate Honors Thesis, “Modelling Quintessence.”

Teaching Experience

Science 101 **The Cosmos, Earth and Genome.** Taught Spring 2004 & '05 with a geologist and biologist. Course introduces non-science majors to the evolution of life from the Big Bang to the development of humans. This was an entirely new course, the physics portions of which I developed at the request of the Dean of Science.

- Physics 131 **General Physics I.** Taught Spring 2001, Fall 2001 and Fall 2002 to freshman College of Engineering and College of Science majors. Course covers Newtonian mechanics and special relativity. Responsibilities included lectures and demonstrations, organizing laboratories, and coordinating teams of graders and teaching assistants.
- Physics 192 **Modern Physics: From Quarks to Quasars.** Taught Spring of 2002 through '05 to freshman honors students in the College of Arts & Letters. Covers basics of Newtonian mechanics, special and general relativity, early quantum theory, and cosmology. Course was for non-science majors but centered on problem-solving; calculus was a pre-requisite. This was an entirely new course which I developed at the request of the Honors College.
- Physics 247 **Sophomore Seminar.** Taught Fall of 2004 & '05. Course introduces sophomore physics majors to research and physics problem-solving skills.
- Physics 453/454 **Quantum Mechanics I/II.** Taught Fall 2005 - Spring 2006, again in Fall 2006. Course is a Griffiths-level undergraduate course on quantum mechanics for our junior and senior majors.
- Physics 451 **Astrophysics.** Taught Fall 2000 to junior and senior physics majors. Course provides an introduction to general relativity, then covers astrophysical measurements, stellar structure and evolution, and cosmic history.
- Physics 481/
Physics 581 **Relativity: Special and General.** Taught Spring 2003 for graduate students and senior physics majors. Course covers advanced topics in special and general relativity, differential geometry, tensor analysis, and cosmology.
- Physics 625 **Special Topics in Particle Physics.** Taught/organized Fall 2002. Graduate course covering selected topics in field theory and particle physics.
- Grad Edu 601 **Preparing for an Academic Career in the Sciences.** Taught Summers of 2004, 2005 & 2006 to science and engineering graduate students. Course covers how to apply for a job, teaching and course preparation.

BIBLIOGRAPHY
Christopher F. Kolda

Research Publications

1. “Calculable Upper Limit on the Mass of the Lightest Higgs Boson in Perturbatively Valid Supersymmetric Theories with Arbitrary Higgs Sectors,” (with G. Kane and J. Wells), hep-ph/9210242, Phys. Rev. Lett. **70** (1993) 2686.
2. “Study of Constrained Minimal Supersymmetry,” (with G. Kane, L. Roszkowski, and J. Wells), hep-ph/9312272, Phys. Rev. **D49** (1994) 6173.
3. “Predictions of Constrained Minimal Supersymmetry with Bottom-Tau Mass Unification” (with G. Kane, L. Roszkowski, and J. Wells), hep-ph/9404253, Phys. Rev. **D50** (1994) 3498.
4. “Implications of $\Gamma(Z \rightarrow b\bar{b})$ for Supersymmetry Searches and Model Building,” (with G. Kane and J. Wells), hep-ph/9408228, Phys. Lett. **B338** (1994) 219.
5. “Theory, Phenomenology, and Prospects for Detection of Supersymmetric Dark Matter,” (with E. Diehl, G. Kane, and J. Wells), hep-ph/9502399, Phys. Rev. **D52** (1995) 4223.
6. “Low-Energy Supersymmetry with D-term Contributions to Scalar Masses,” (with S. Martin), hep-ph/9503445, Phys. Rev. **D53** (1996) 3871.
7. “Flat Directions in the Scalar Potential of the Supersymmetric Standard Model,” (with T. Gherghetta and S. Martin), hep-ph/9510370, Nucl. Phys. **B468** (1996) 37.
8. “Leptophobic $U(1)$ ’s and the R_b - R_c Anomalies,” (with K.S. Babu and J. March-Russell), hep-ph/9603212, Phys. Rev. **D54** (1996) 4635.
9. “Experimental Consequences of a Minimal Messenger Model for Supersymmetry Breaking,” (with K.S. Babu and F. Wilczek), hep-ph/9605408, Phys. Rev. Lett. **77** (1996) 3070.
10. “Low-Energy Signatures of Semi-perturbative Unification” (with J. March-Russell), hep-ph/9609480, Phys. Rev. **D55** (1997) 4252.
11. “Kinetic Mixing and the Supersymmetric Gauge Hierarchy,” (with K. Dienes and J. March-Russell), hep-ph/9610479, Nucl. Phys. **B492** (1997) 104.
12. “Comments on the high- Q^2 HERA anomaly,” (with K.S. Babu, J. March-Russell and F. Wilczek), hep-ph/9703299, Phys. Lett. **B402** (1997) 367.
13. “Modified parton distributions and the HERA high- Q^2 anomaly,” (with K.S. Babu and J. March-Russell), hep-ph/9705399, Phys. Lett. **B408** (1997) 268.
14. “Implications of a Charged-Current Anomaly at HERA,” (with K.S. Babu and J. March-Russell), hep-ph/9705414, Phys. Lett. **B408** (1997) 261.
15. “Implications of Generalized $Z - Z'$ Mixing,” (with K.S. Babu and J. March-Russell), hep-ph/9710441, Phys. Rev. **D57** (1998) 6788.
16. “Twenty Open Questions in Supersymmetric Particle Physics,” (with K. Dienes), IAS report IASSNSHEP-97/68, hep-ph/9712322.
17. “Supersymmetric D-term Inflation, Reheating and Affleck-Dine Baryogenesis,” (with J. March-Russell), hep-ph/9802358, Phys. Rev. **D60** (1999) 023504.
18. “Stabilized Singlets in Supergravity as a Source of the μ -parameter,” (with S. Pokorski and N. Polonsky), hep-ph/9803310, Phys. Rev. Lett. **80** (1998) 5263.

19. “CP Violation, Higgs Couplings, and Supersymmetry,” (with K.S. Babu, J. March-Russell and F. Wilczek), hep-ph/9804355, Phys. Rev. **D59** (1999) 016004.
20. “Supergravity Resolution of the Unification to Planck Scale Hierarchy,” (with N. Polonsky), hep-ph/9805240, Phys. Lett. **B433** (1998) 323.
21. “Solving the Supersymmetric Flavor Problem with Radiative Generation of Mass Hierarchies,” (with J. Feng and N. Polonsky), hep-ph/9810500, Nucl. Phys. **B546** (1999) 3.
22. “Signatures of Supersymmetry and Yukawa Unification in Higgs Decays,” (with K.S. Babu), hep-ph/9811308, Phys. Lett. **B451** (1999) 77.
23. “Quintessential Difficulties,” (with D. Lyth), hep-ph/9811375, Phys. Lett. **B458** (1999) 197.
24. “Electroweak Symmetry Breaking and Large Extra Dimensions,” (with L. Hall), hep-ph/9904236, Phys. Lett. **B459** (1999) 213.
25. “Cosmology of One Extra Dimension with Localized Gravity,” (with C. Csáki, M. Graesser and J. Terning), hep-ph/9906513, Phys. Lett. **B462** (1999) 34.
26. “Higgs-Mediated $B^0 \rightarrow \mu^+ \mu^-$ in Minimal Supersymmetry,” (with K.S. Babu), hep-ph/9909476, Phys. Rev. Lett. **84** (2000) 228.
27. “The Higgs Mass and New Physics Scales in the Minimal Standard Model,” (with H. Murayama), hep-ph/0003170, JHEP 7 (2000) 35.
28. “A New Perspective on Cosmic Coincidence Problems,” (with N. Arkani-Hamed, L. Hall and H. Murayama), astro-ph/0005111, Phys. Rev. Lett. **85**, 4434 (2000).
29. “Bounds on charged, stable superpartners from cosmic ray production,” (with M. Byrne and P. Regan), Phys. Rev. **D66**, 075007 (2002).
30. “Higgs mediated $\tau \rightarrow 3\mu$ in the supersymmetric seesaw model,” (with K.S. Babu), Phys. Rev. Lett. **89**: 241802 (2002).
31. “Updated implications of the muon anomalous magnetic moment for supersymmetry,” (with M. Byrne and J. Lennon), Phys. Rev. **D67**, 075004 (2003).
32. “ $B \rightarrow \phi K$ and supersymmetry,” (with G. Kane, P. Ko, H. Wang, J. Park and L. Wang), hep-ph/0212092, Phys. Rev. **D70**, 035015 (2004).
33. “ $B_d \rightarrow \phi K_s$ CP asymmetries as an important probe of supersymmetry” (with G. Kane, P. Ko, H. Wang, J. Park and L. Wang), Phys. Rev. Lett. **90**: 141803 (2003).
34. “ $B \rightarrow \mu\mu$ as a probe of $\tan \beta$ at the Tevatron” (with G. Kane and J. Lennon), hep-ph/0310042.
35. “Quintessence and varying alpha from shape moduli,” (with M. Byrne) hep-ph/0402075.
36. “Perturbative unification and Higgs boson mass bounds,” (with K.S. Babu and I. Gogoladze), hep-ph/0410085, submitted to Phys. Rev. D.
37. “Sum Rules for Supersymmetric Flavor-Changing Neutral Currents,” (with B. Dudley), in preparation.
38. “New Physics, Neutrinoless Double- β Decay and Quark Flavor Symmetries” (with B. Dudley and I. Gogoladze), in preparation.
39. “Sterile Neutrinos in the Next-to-Minimal Supersymmetric Standard Model” in preparation.

Other Publications

1. “Dark Matter from Supersymmetric Grand Unification,” (with G. Kane, L. Roszkowski and J. Wells), hep-ph/9405363, in *Sources of Dark Matter in the Universe*, ed. by D. Cline.
2. “Upper Bounds in Low-Energy SUSY,” (with G. Kane, L. Roszkowski and J. Wells), hep-ph/9405364, in *Yukawa Couplings and the Origin of Mass*, ed. by P. Ramond.
3. *Proceedings of the International Workshop on Supersymmetry and Unification of Fundamental Interactions: SUSY-94*, Editor (with J. Wells), Michigan report UM-TH-94-35, September 1994.
4. “Is R_b at LEP telling us that supersymmetry will soon be found?” Michigan report UM-TH-95-04, in *Beyond the Standard Model IV*, ed. by J. Gunion, T. Han and J. Ohnemus.
5. *Supersymmetrifica: Constrained Model-Building in Supersymmetry*, Ph.D. Thesis.
6. “Leptophobic $U(1)$'s and R_b , R_c at LEP,” hep-ph/9606396, in *Supersymmetry '96: Theoretical Perspectives and Experimental Outlook*, ed. by R. Mohapatra and A. Rašin, Nucl. Phys. Proc. Suppl. **52A** (1997) 120.
7. *Report of the Supersymmetry Theory Working Group: Snowmass '96*, (with J. Amundson, et al.), hep-ph/9609374, September 1996.
8. “Gauge-Mediated Supersymmetry Breaking: Introduction, Review and Update,” IAS report IASSNS-97/90, hep-ph/9707450, to appear in *Proceedings of the 5th International Conference on Supersymmetries in Physics (SUSY '97)*, ed. by M. Cvetič and P. Langacker.
9. “Review of Z' Physics,” (with K.S. Babu and J. March-Russell), IAS report IASSNS-HEP-97/130, in the *Review of Particle Physics*, Eur. Phys. J. **C3** (1998) 1.
10. “Review of W' Physics,” (with K.S. Babu and J. March-Russell), IAS report IASSNS-HEP-97/131, in the *Review of Particle Physics*, Eur. Phys. J. **C3** (1998) 1.
11. “Supersymmetry and Particle Physics: A Road Map of Future Directions,” (with K. Dienes), hep-ph/9712322, in *Perspectives on Supersymmetry*, ed. by G. Kane, World Scientific Press.
12. “Extra Dimensions?” a chapter in the forthcoming popular science book, *The Charm of Strange Quarks – The Mysteries and Revolutions of Particle Physics*, by R.M. Barnett et al, Springer-Verlag.
13. “Review of Particle Physics,” (Particle Data Group), Eur. Phys. J. **C15**, 1 (2000).
14. “Extracting parameters from supersymmetric heavy Higgs bosons,” in *Batavia 2000: Physics and experiments with future linear $e^+ e^-$ colliders*, (2000).
15. “Exponential quintessence and the end of acceleration,” (with W. Lahneman) hep-ph/0105300, undergraduate thesis presentation.
16. “Review of Particle Physics,” (Particle Data Group), Phys. Rev. **D66**, 010001 (2002). Includes new “Review of Z0 Physics” with K.S. Babu.
17. “Minimal flavor violation at large $\tan(\beta)$,” arXiv:hep-ph/0409205, in the proceedings of the International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 04), Tsukuba, Japan.
18. “Review of particle physics,” (Particle Data Group), Phys. Lett. B **592**, 1 (2004).
19. “The discovery potential of a Super B Factory,” (ed. J. Hewitt) arXiv:hep-ph/0503261.