CURRICULUM VITAE May 3, 2016

Daniel Vrinceanu

Department of Physics Texas Southern University 206 L.H.O. Spearman Tech Building 3100 Cleburne Ave., Houston TX 77004

♥ vrinceanud@tsu.edu ☎ (713) 313 4482 ⋈ (713) 313 1833

EDUCATION AND UNIVERSITY DEGREES

Harvard-Smithsonian Center for Astrophysics, Georgia Institute of Technology, U. of Bucharest

▶ Professional Employment History

Texas Southern University, Los Alamos National Laboratory, Harvard-Smithsonian CfA

>HONORS AND AWARDS

Director Fellowship, finalist for DAMOP Thesis Award, Sigma Xi Award for the best PhD Thesis

VISITING APPOINTMENTS

Georgia Institute of Technology, Clark-Atlanta University, DESY Hamburg

CURRENT RESEARCH FIELDS OF INTEREST

many body strongly correlated systems, anti-hydrogen formation, Rydberg gases and frozen plasmas

>TEACHING EXPERIENCE

undergraduate, graduate, mentoring

Professional Memberships, Activities and Service

American Physical Society, referee for many journals, High Performance Computing

RESEARCH GRANTS AND FUNDING

National Science Foundation, Army Research Office, U.S. Navy

REFERED PUBLICATIONS IN SCIENTIFIC JOURNALS.

more than 70 publications

>Invited Talks

more than 30 talks

▶ Professional Meetings and Conferences

more than 40 conference participation

REFERENCES LETTERS MAY BE OBTAINED FROM:

C. R. Handy, L. A. Collins, H. R. Sadeghpour, T. Killian

Daniel Vrinceanu Curriculum Vitae 2

∇ EDUCATION AND UNIVERSITY DEGREES (back to index page)

♦ ITAMP Fellow: 2001 – 2004 Harvard-Smithsonian Center for Astrophysics Independent research in Theoretical Atomic and Molecular Physics

♦ PhD in Physics: 1996 − 2000

Georgia Institute of Technology

GPA: 4.0, Supervisor: Prof. M. R. Flannery

PhD Thesis: Quantal-Classical Correspondence in Atomic Collisions

♦ MS in Physics: 1986 − 1992

University of Bucharest

Graduated in the first 3% from 100 students in the class with the graduate diploma thesis in Theoret-

ical Physics: Quantum Groups and Hopf Algebra

∇ PROFESSIONAL EMPLOYMENT HISTORY (back to index page)

♦ **Associate Professor:** Sep. 2015 – present Texas Southern University

♦ **Assistant Professor:** 2010 – 2015 Texas Southern University

♦ Visiting Associate Professor: 2008 – 2010 Texas Southern University

♦ **Director Fellowship:** 2004 – 2008 Los Alamos National Laboratory

♦ **ITAMP Fellowship:** 2001 – 2004 Harvard-Smithsonian Center for Astrophysics

♦ **Visiting Assistant Professor:** 2000 – 2001 Georgia Institute of Technology

♦ **Teaching Assistant:** 1996 – 2000 Georgia Institute of Technology

♦ Assistant Professor: 1992 – 1996
University of Bucharest

⋄ Researcher: 1993 – 1994
Biophysics Lab., Center for Biotechnologies, Bucharest

∇ HONORS AND AWARDS (back to index page)

- ♦ **Dean's Leadership Award**, Texas Southern University 2016
- ♦ Scholarly Research/Creative Activities Award, Texas Southern University 2014
- ♦ Distinguished Research/Scholarly Activity Award, College of Science and Technology, Texas Southern University – 2014
- ♦ **Dean's Leadership Award**, Texas Southern University 2012
- ♦ Director Fellowship, Los Alamos National Laboratory 2004
- ♦ Finalist in DAMOP Thesis Award competition of American Physical Society 2002
- ♦ Sigma Xi Award for the best PhD Thesis 2001
- ♦ Motorola SPS Fellowship 1998
- ♦ Gill Amelio Fellowship 1998

- ♦ **Bronze Medal** at the 17th International Physics Olympiad London, 1986
- ♦ Romanian Government Scholarship for accomplished student, 1989 1992
- ∇ VISITING APPOINTMENTS (back to index page)
 - ♦ CTSPS, Clark Atlanta University: May Aug 2000, Nov 1998 May 1999, Feb Jun 1996
 - ♦ DESY, Hamburg, Germany: Oct Dec 1992
- ∇ CURRENT RESEARCH FIELDS OF INTEREST (back to index page)
 Theoretical studies of:
 - ⋄ matter at extreme conditions strongly correlated system: novel computational algorithms for ultracold ionized gases, ultrafast pulses, quantum computing and BEC
 - ♦ formation, capture and detection of anti-hydrogen atoms in a Penning trap
 - interaction and collisions in ultracold Rydberg gases and frozen plasmas, electron impact ionization of Rydberg atoms, interaction between Rydberg atoms, radiative processes involving Rydberg atoms, three-body recombination
 - collisional and radiative properties of metastable helium atoms, collisional broadening and shift of atomic and ionic lines
 - ♦ High performance computing, parallel algorithms, computational physics
- ∇ TEACHING EXPERIENCE (back to index page)
 - undergraduate classes:
 - Principles of Physical Science, University Physics, Thermal Physics, General Relativity, Quantum Mechanics and Computational Physics at Texas Southern University
 - tutorial sessions and physics labs for undergraduate classes:
 Introductory Physics at Harvard University and Georgia Institute of Technology
 - recitations and homework grading for graduate classes:
 Classical Mechanics, Statistical Physics, Classical Electrodynamics at Georgia Institute of Technology and the University of Bucharest
 - lecturing to undergraduate classes (~ 50 60 students):
 Classical Electrodynamics, Quantum Mechanics and Numerical Methods in Physics at the University of Bucharest
 - mentor/advisor for graduate and undergraduate students, at TSU, ITAMP, Los Alamos National Laboratory and University of Bucharest
- ∇ PROFESSIONAL MEMBERSHIPS, ACTIVITIES AND SERVICE (back to index page)
 - member, American Physical Society since 1996

- referee work for: Physical Review Letters, Physical Review A, Journal of Physics A, Journal of Physics B, Journal of Mathematical Physics, Journal of Chemical Physics, American Journal of Physics, Plasmonics and Astronomy & Astrophysics
- ⋄ conference organizer: DAMOP 2010, local organizing committee
- ♦ Co-director and System Administrator: Texas Southern University High Performance Computing Center (http://hpcc.tsu.edu)

∇ RESEARCH GRANTS AND FUNDING (back to index page)

- National Science Foundation Research Infrastructure for Science and Engineering, 2014-2017, \$991,206, Co-Pi: Characterization of Biomolecular Response to Environmental Stress
- ♦ Army Research Office Research and Education Program for HBCU, 2013-2016, \$634,220, Co-Pi: Many Body Density Matrix Theory: Excitations and Time Dependent Response
- National Science Foundation Major Research Instrumentation, 2011-2013, \$220,000, Co-Pi: Acquisition of HPC at Texas Southern University to Expand Capabilities for Research and Training through Shared High Performance Computing
- National Science Foundation Centers of Research Excellence in Science and Technology, 2011 2016, \$4,887,000, Co-I: Center for Research on Complex Networks
- ♦ Naval Air Warfare Center, Research contract, 2010, \$60,000, Co-Pi: Agreement between the Naval Air Warfare Center Ad and Texas Southern University
- ♦ National Science Foundation, **TeraGrid High Performance Computing**, 2010, 1,000,000 computation units: *Electron and ion Rydberg atom collisions*
- Texas Southern University, Seed Grant, 2010, \$25,000, Co-Pi:
 Computational Efficacy of Classical and Quantum Information Security Methodologies
- ♦ Texas Southern University, Seed Grant, 2009, \$15,000, Co-Pi: Decoherence Related Challenges in Quantum Computing
- ♦ Texas Southern University, **Title III Grant**, 2009, \$55,000, Co-Pi: High Performance Computing at Texas Southern University
- National Science Foundation, TeraGrid High Performance Computing, 2009, 190,000 computation units, Co-Pi: Ultracold molecular photoassociation dynamics of lithium-yetterbium atoms; and three-body recombination in magnetized cold plasmas

∇ REFEREED PUBLICATIONS IN SCIENTIFIC JOURNALS (back to index page)

74. Vertical Alignment of Educational Opportunities for STEM Learners from High School through the Ph.D.: An Interdisciplinary Project Evaluating the Effects of Road Dust on Biological Systems by J. A. Rosenzweig1, **D. Vrinceanu**, H.-M. Hwang, and S. Shishodia American Biology Teacher **99**, xxx (2016)

73. A Power Moment Reformulation of the Nikiforov-Uvarov Method for Exactly Solvable Systems by C. R. Handy and **D. Vrinceanu**Canadian Journal of Physics **94**, 410 (2016)

72. Demonstrating universal scaling for dynamics of Yukawa one-component plasmas after an interaction quench

by T. K. Langin, T. Strickler, N. Maksimovic, P. McQuillen, T. Pohl, **D. Vrinceanu**, and T. C. Killian Phys. Rev. E **93**, 023201 (2016)

71. Momentum space orthogonal polynomial projection quantization

by C. R. Handy, **D. Vrinceanu**, C. Marth, R. Gupta J. Phys. A **49**, 145205 (2016)

70. Pointwise reconstruction of wave functions from their moments through weighted polynomial expansions: an alternative global-local quantization procedure

by C. R. Handy, **D. Vrinceanu**, C. B. Marth and H. A. Brooks Mathematics **3**, 1045 (2015)

69. Global-Local Algebraic Quantization of a Two-Dimensional Non-Hermitian Potential by **D. Vrinceanu**, C. B. Marth and C. R. Handy International Journal of Theoretical Physics **54**, 4005 (2015)

68. *Identification of GW bursts in high noise using Pade filtering* by L. Perotti, T. Regimbau, **D. Vrinceanu** and D. Bessis Physical Review D **90**, 124047 (2014)

67. Accurate quantum states for a 2D-dipole

by **D. Vrinceanu**

Physical Review B (under review) **XX**, under review (2014)

66. Constraints on Cosmic Strings from the LIGO-Virgo Gravitational-Wave Detectors by J. Aasi et al. (LIGO Scientific Collaboration and Virgo Collaboration) Physical Review Letters **112**, 131101 (2014)

65. A moments's analysis of quasi-exactly solvable systems: a new perspective on the sextic potential $g x^6 + b x^4 + m x^2 + \beta/x^2$

by C. R. Handy, **D. Vrinceanu** and R. Gupta J. Phys. A **47**, 295203 (2014)

64. Application of a Hough search for continuous gravitational waves on data from the fifth LIGO science run

by J. Aasi et al. (LIGO Scientific Collaboration and Virgo Collaboration) Classical and Quantum Gravity **31**, 085014 (2014)

63. Gravitational waves from known pulsars: results from the initial detector era by J. Aasi et al. (LIGO Scientific Collaboration and Virgo Collaboration) Astrophysical Journal **785**, 119 (2014)

62. First searches for optical counterparts to gravitational-wave candidate events by J. Aasi et al. (LIGO Scientific Collaboration and Virgo Collaboration)
Astrophysical Journal Supplement Series **211**, 7 (2014)

- Comprehensive rate coefficients for electron collision induced transitions in hydrogen by D. Vrinceanu, R. Onofrio and H. R. Sadeghpour Astrophysical Journal 780, 2 (2014)
- 60. Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts by J. Aasi et al. (LIGO Scientific Collaboration and Virgo Collaboration)
 Physical Review D 88, 122004 (2013)
- Parallel Sparse Matrix-Matrix Multiplication: A Scalable Solution with 1-D Algorithm by M. Hoque, M. R. Raju, C. Tymczak, D. Vrinceanu and K. Chilakamarri International Journal of Computational Science and Engineering 9, 214 (2013)
- 58. Directed search for continuous gravitational waves from the Galactic center by J. Aasi et al. (LIGO Scientific Collaboration and Virgo Collaboration) Physical Review D **88**, 102002 (2013)
- 57. Enhanced Frequency Resolution in Data Analysis by L. Perotti, **D. Vrinceanu** and D. Bessis American Journal of Computational Mathematics **3**, 242 (2013)
- Rapidly Converging Bound State Eigenenergies for the Two Dimensional Quantum Dipole by C. R. Handy and D. Vrinceanu J. Phys. B 46, 115002 (2013)
- 55. Noise in the complex plane: open problems by D. Bessis, L. Perotti and **D. Vrinceanu** Numerical Algorithms **62**, 559 (2013)
- Orthogonal polynomial projection quantization: a new Hill determinant method by C. R. Handy and D. Vrinceanu J. Phys. A 46, 135202 (2013)
- 53. Beyond the Fourier Transform: Signal Symmetry Breaking In the Complex Plane by L. Perotti, **D. Vrinceanu** and D.Bessis IEEE Signal Processing Letters **19**, 865 (2012)
- 52. *Minority Student Involvement in Computational Science Research at Texas Southern University* by M. F. Khan, **D. Vrinceanu**, K. Chillakamarri and C. J. Tymczak in "Proceedings of the 1st Conference of the Extreme Science and Engineering Discovery Environment: Bridging from the eXtreme to the Campus and Beyond", edited by C. Stewart (2012)
- 51. Computing high precision Matrix Pade approximants by B. Beckermann, D. Bessis, L. Perotti and **D. Vrinceanu** Numerical Algorithms **61**, 189 (2012)
- 50. Angular momentum changing transitions in proton-Rydberg hydrogen atom collisions by **D. Vrinceanu**, R. Onofrio and H. R. Sadeghpour Astrophysical Journal **747**, 56 (2012)
- 49. Surface Plasmon Resonances of Clustered Nanoparticles by T. Sandu, **D. Vrinceanu** and E. Gheorghiu Plasmonics **6**, 407 (2011)

48. Spin polarization transfer in ground and metastable helium atom collisions

by D. Vrinceanu and H. R. Sadeghpour

New Journal of Physics **12**, 065039 (2010)

47. Linear dielectric response of clustered living cells

by T. Sandu, **D. Vrinceanu** and E. Gheorghiu

Physical Review E **81**, 021913 (2010)

46. Rydberg atom formation in ultracold plasmas: non-equilibrium dynamics of recombination

by **D. Vrinceanu**, H. R. Sadeghpour and T. Pohl

Journal of Physics: Conference Series 194, 012067 (2009)

45. Long-range interaction between ground and excited state hydrogen atoms

by **D. Vrinceanu** and A. Dalgarno

J. Phys. B 41, 215202 (2008)

44. The King model for electrons in a finite-size ultracold plasma

by D. Vrinceanu, G. S. Balaraman and L. A. Collins

J. Phys. A 41, 425501 (2008)

43. Rydberg atom formation in ultracold plasmas: Small energy transfer with large consequences

by T. Pohl, D. Vrinceanu, and H. R. Sadeghpour

Phys. Rev. Lett. 100, 223201 (2008)

42. Long-range interactions for two He (2P) atoms: accurate results for $He(2^1P)-He(2^1P)$, $He(2^1P)-He(2^3P)$, and $He(2^3P)-He(2^3P)$ for like isotopes

by J.-Y. Zhang, Z.-C. Yan, **D. Vrinceanu**, J. F. Babb, and H. R. Sadeghpour

Phys. Rev. A **76**, 012723 (2007)

41. A theoretical survey of formation of antihydrogen atoms in a Penning trap

by **D. Vrinceanu**

in "Atomic processes in Plasmas: 15th APS Topical Conference", edited by J. D. Gillaspy, J. J. Curry and W. L. Wiese (2007)

40. Numerical solution of perturbed Kepler problem using a split operator technique

by G. S. Balaraman and D. Vrinceanu

Physics Letters A **369**, 188 (2007)

39. Superadiance in ultracold Rydberg atoms

by T. Wang, S. F. Yelin, R. Cote, E. E. Eyler, S. M. Farooqi, P. L. Gould, M. Kostrun, D. Tong and

D. Vrinceanu

Phys. Rev. A 75, 033802 (2007)

38. Long-range interactions for He(nS) - He(n'S) and He(nS) - He(n'P)

by J.-Y. Zhang, Z.-C. Yan, **D. Vrinceanu**, J. F. Babb, and H. R. Sadeghpour

Phys. Rev. A 74, 014704 (2006)

37. Equivalent multipole operators for degenerate Rydberg states

by V. N. Ostrovsky, **D. Vrinceanu** and M. R. Flannery

Phys. Rev. A 74, 022720 (2006)

36. Long-range interactions between a $He(2^3S)$ and a $He(2^3P)$ atom for like isotopes by J.-Y. Zhang, Z.-C. Yan, **D. Vrinceanu**, H. R. Sadeghpour and J. F. Babb Phys. Rev. A **73**, 022710 (2006)

35. Computational techniques for probing matter at extreme conditions

by S. Hu, D. Vrinceanu, L. Collins, B. Schneider

Lecture Series on Computer and Computational Sciences 4A-4B, 1118 (2005)

34. Formation of anti-hydrogen atoms and ions in a strongly magnetized plasma: A Molecular Dynamics Simulation

by **D. Vrinceanu**, S. X. Hu, S. Mazevet and L. A. Collins Phys. Rev. A **74**, 042503 (2005)

33. *Molecular dynamics simulations of cold antihydrogen formation in strongly magnetized plasmas* by S. X. Hu, **D. Vrinceanu**, S. Mazevet and L. A. Collins Phys. Rev. Lett. **95**, 163402 (2005)

32. Electron impact ionization of Rydberg atoms

by D. Vrinceanu

Phys. Rev. A 72, 022722 (2005)

31. *Anisotropic van der Waals coefficients for He*(1¹*S*) - *He*(2³*P*) by J. Y. Zhang, Z. C. Yan, **D. Vrinceanu** and H. R. Sadeghpour Phys. Rev. A **71**, 032712 (2005)

30. Long-range interaction between polar Rydberg atoms by V. N. Ostrovsky, M. R. Flannery, **D. Vrinceanu** and N. V. Prudov J. Phys. B **38**, S279 (2005)

29. *Electron-impact broadening of Sr*⁺ *lines in ultracold neutral plasmas* by **D. Vrinceanu**, H. R. Sadeghpour and K. Bartschat J. Phys. B **37**, L371 (2004)

28. Strongly magnetized antihydrogen and its field ionization

by **D. Vrinceanu**, B. E. Granger, R. Parrott, H. R. Sadeghpour, L. Cederbaum, A. Mody, J. Tan and G. Gabrielse

Phys. Rev. Lett. 92, 133402 (2004)

27. Pressure Broadening and Shift of $He(2^3P_{2,1,0})$ - $He(2^3S)$ lines by **D. Vrinceanu**, S. Kotochigova and H. R. Sadeghpour Phys. Rev. A **69**, 022714 (2004)

26. The variable phase method used to calculate and correct scattering lengths by H. Ouerdane, M. J. Jamieson, **D. Vrinceanu** and M. J. Cavagnero J. Phys. B **36**, 4055 (2003)

25. Quantal and Classical Radiative Cascade in Rydberg Plasmas by M. R. Flannery and **D. Vrinceanu**

Phys. Rev. A **68**, 030502(R) (2003)

24. Stark mixing in Rydberg atoms by ultralow energy collisions with ions

by M. R. Flannery and **D. Vrinceanu**

International Journal of Mass Spectroscopy 223, 473 (2003)

23. Stark Mixing in Dissociative Recombination

by M. R. Flannery and D. Vrinceanu

in "Dissociative recombination: theory, experiment, and applications", edited by S. Guberman (2002)

22. $He(1^1S)$ - $He(2^3S)$ collision and radiative transition at low temperatures

by **D. Vrinceanu** and H. R. Sadeghpour

Phys. Rev. A 65, 062712 (2002)

21. Classical and Quantal atomic Form Factors for $(nlm \rightarrow n'l'm)$ transitions

by M. R. Flannery and D. Vrinceanu

Phys. Rev. A 65, 022703 (2002)

20. Exchange Forces in Dispersion Relations Investigated Using Circuit Relations

by D. Vrinceanu, A. Z. Msezane, D. Bessis and A. Temkin

Phys. Rev. Lett. 86, 3256 (2001)

19. Exact Quantal Collisional Stark Mixing probabilities

by **D. Vrinceanu** and M. R. Flannery

J. Phys. B 34, L1 (2001)

18. Classical and Quantal Stark Mixing at ultralow collision energies

by **D. Vrinceanu** and M. R. Flannery

Phys. Rev. A 63, 032701 (2001)

17. Quantal Stark Mixing at ultralow collision energies

by **D. Vrinceanu** and M. R. Flannery

J. Phys. B 33, L721 (2000)

16. Calculation of Regge Pole trajectories for singular potentials: an analytic approach

by D. Bessis, **D. Vrinceanu**, Z. Felfli and A. Z. Msezane

in "Proceedings of the First International Workshop on "Contemporary Problems in Mathematical Physics", Cotonou, Republic of Benin, 31 October - 5 November 1999", edited by J. Govaerts, M. N. Hounkonnou and W. A. Lester, Jr. (2000)

15. Classical Stark Mixing at ultralow collision energies

by **D. Vrinceanu** and M. R. Flannery

Phys. Rev. Lett. 85, 4880 (2000)

14. Pade reconstruction of Regge poles from scattering matrix data for chemical reactions

by **D. Vrinceanu**, A. Z. Msezane, D. Bessis, J. N. L. Connor and D. Sokolovski

Chem. Phys. Lett. **324**, 311 (2000)

13. Quantal-classical correspondence impulse theory

by M. R. Flannery and D. Vrinceanu

Phys. Rev. Lett. 85, 1 (2000)

12. Analytical accurate Regge trajectories calculation for singular potentials

by **D. Vrinceanu**, A. Z. Msezane and D. Bessis

Phys. Rev. A 62, 022719 (2000)

11. Recombination at ultra Cold Energies

by M. R. Flannery and D. Vrinceanu

in "Dissociative recombination: theory, experiment, and applications: proceedings of the fourth international conference: Stockholm archipelago, Sweden, 16-20 June 1999", edited by M. Larsson, J. Brain, A. Mitchell and I. F. Schneider (1999)

10. A new expansion in \hbar : accurate calculations of Regge trajectories for singular potentials

by D. Vrinceanu, A. Z. Msezane and D. Bessis

Chem. Phys. Lett. **311**, 395 (1999)

9. Classical and quantal atomic form factors for arbitrary transitions

by D. Vrinceanu and M. R. Flannery

Phys. Rev. A 60, 1053 (1999)

8. The classical atomic form factor

by **D. Vrinceanu** and M. R. Flannery

Phys. Rev. Lett. 82, 3412 (1999)

7. Radiative transitions and van der Waals coefficient for francium

by M. Marinescu, D. Vrinceanu and H. R. Sadeghpour

Phys. Rev. A 58, R4259 (1998)

6. Recombination at ultra-low Energies

by M. R. Flannery and D. Vrinceanu

in "Atomic processes in Plasmas: 11th APS Topical Conference", edited by E. Oks and M. S. Pindzola (1998)

5. Electron wave filters from inverse scattering theory

by D. Bessis, G. Mantica, G. A. Mezincescu and D. Vrinceanu

Europhysics Lett. **37**, 151 (1997)

4. Lie symmetry group for 1+1 dimensional ultrarelativistic fluid dynamics

by C. Alexa and D. Vrinceanu

Romanian Journal of Physics 41, 207 (1996)

3. Shape effects on the dielectric behaviour of arbitrarily shaped particles with particular reference to biological cells

by D. Vrinceanu and E. Gheorghiu

Bioelectrochemistry and Bioenergetics 40, 167 (1996)

2. *Q-Creation and Annihilation Tensors for the Two Parameters Deformation of U(su(2))*

by R. W. Wehrhahn and D. Vrinceanu

DESY preprint **93-042**, (1993)

1. A q-tensorial approach to q-oscillators in $U_q(su(2))$

by D. Vrinceanu, M. Stroila and A. Ludu

J. Phys. A 26, L629 (1993)

∇ INVITED TALKS (back to index page)

- Department of Physics and Astronomy, Trinity University, San Antonio, TX, October 2014
- ♦ Department of Physics and Astronomy, University of Kentucky, March 2014

- Division of Atomic, Molecular and Optical Physics (DAMOP/APS) Meeting, Quebec City, Canada, June 2013
- Department of Physics Colloquium, Indiana University-Purdue University Indianapolis, March 2013
- Conference "Diaspora in Higher Education and Scientific Research of Romania", Bucharest, Romania, September 2012
- ♦ University of Rome, Rome, Italy, January 2012
- Army Research Lab Seminar, Adelphi, MD, May 2011
- ♦ Gravitational Wave Astronomy Seminar, University of Texas at Brownsville, February 2011
- ♦ Workshop on Ultracold Rydberg Physics, Recife, Brasil, November 2010
- Science and Engineering Festival, Austin, TX, October 2010
- International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC), Kalamazoo, MI, July 2009
- ♦ Department of Physics Seminar, Texas Southern University, April 2009
- ♦ Research Week, Texas Southern University, April 2009
- Physics Department Colloquium, Missouri Science and Technology University, February 2008
- International Conference on Atomic Processes in Plasmas (APiP), Gaithersburg, MD, March 2007
- ♦ Atomic and Molecular Group Seminar, RIKEN, Tokyo, Japan, December 2006
- Collisional Processes in X-Ray Emission and Antimatter Physics, Tokyo Metropolitan University, Tokyo, Japan, April 2006
- Cold and Ultra Cold Plasma and Rydberg Physics, ITAMP, Cambridge, Massachusetts, September 2005
- International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC), Rosario, Argentina, July 2005
- ♦ Theory of Ultracold Molecules, Telluride, Colorado, July 2005
- School of Physics Colloquium, Georgia Institute of Technology, February 2005
- Quantum Lunch Seminar, Theoretical Division, Los Alamos National Laboratory, November 2004
- Physics Department Seminar, University of Kentucky, January 2004
- ♦ Gaseous Electronics Conference (GEC/APS), San Francisco, October 2003
- Physics Seminar Series, University of Connecticut, October 2002
- Division of Atomic, Molecular and Optical Physics (DAMOP/APS) Meeting, College of William and Mary, Williamsburg, Virginia, May 2002
- Center for Ultracold Atoms (CUA) Colloquium, Massachusetts Institute of Technology, February 2002
- ♦ Harvard ITAMP joint seminar, Cambridge, Massachusetts, October 2001
- ♦ School of Physics Colloquium, Georgia Institute of Technology, November 2000
- ♦ Conference "Dynamic Systems and Applications", Atlanta, Georgia, May 1999
- Centre de Physique Theorique (CPT), University of Marseille, France, September 1996
- Workshop "Two dimensional Quantum Field Theory", Vienna, Austria, March 1993

∇ Professional Meetings and Conferences (back to index page)

- National Technical Association oral contributions, Texas Southern University, TX, November 2015
- ♦ DAMOP Meeting contributed talks, Columbus, OH, June 2015

- ♦ HBCU-UP/CREST PI/PD Meeting two posters, Whashington, DC, Feb 2015
- ♦ Texas Academy of Science Meeting contributed talks, San Antonio, TX, March 2015
- ♦ DAMOP Meeting contributed talks, Madison, WI, June 2014
- Joint Fall Meeting of the Texas Sections of the APS, AAPT, and SPS two contributed talks, Brownsville, TX, October 2013
- ♦ DAMOP Meeting contributed talk, Annaheim, CA, June 2012
- Joint Fall 2009 Meeting of the Texas Sections of the APS, AAPT, and SPS contributed talk, Commerce, TX, October 2011
- ♦ DAMOP meeting poster, Atlanta, GA, May 2011
- Hydrogen Cosmology Workshop poster, ITAMP Harvard Smithsonian Center for Astrophysics, May 2011
- ♦ DAMOP meeting poster, Houston, Texas, May 2010
- ♦ LIGO-Virgo Gravitational Waves meeting N/A, MIT, Boston, Massachusetts, December 2009
- Joint Fall 2009 Meeting of the Texas Sections of the APS, AAPT, and SPS two contributed talks, Texas State University, San Marcos, Texas, September 2009
- Workshop "Cold and Ultracold Plasma and Rydberg Physics II" poster, ITAMP Harvard Smithsonian Center for Astrophysics, September 2009
- DAMOP Meeting poster, University of Virginia, Charlottesville, Virginia, May 2009
- ♦ International Workshop on Non-Neutral Plasmas poster, Columbia University, New York, June 2008
- ♦ DAMOP Meeting 1 poster, 1 contributed talk, Penn State, State College, Pennsylvania, May 2008
- ♦ DAMOP Meeting poster, Calgary, Alberta, Canada, June 2007
- ♦ DAMOP Meeting 2 posters, Knoxville, Tennessee, May 2006
- ♦ DAMOP Meeting 2 posters, 1 contributed talk, Lincoln, Nebraska, May 2005
- ♦ DAMOP Meeting 3 posters, 1 contributed talk, Tucson, Arizona, May 2004
- ♦ ICPEAC 3 posters, Stockholm University, Sweeden, July 2003
- ♦ DAMOP Meeting 4 posters, U of Colorado, Bolder, Colorado, May 2003
- International Conference on Atomic Physics (ICAP) 2002 2 posters, MIT, Boston, Massachusetts, July 2002
- DAMOP Meeting 2 posters, College of William and Mary, Williamsburg, Virginia, May 2002
- ♦ ICPEAC 2 posters, Santa Fe, New Mexico, July 2001
- ♦ DAMOP Meeting 3 posters, London, Ontario, May 2001
- ♦ DAMOP Meeting poster, University of Connecticut, Connecticut, June 2000
- Gordon Research Conference, "Dynamics of Simple Systems in Chemistry and Physics" poster, Salve Regina University, Newport, Rhode Island, July 1999
- ♦ APS Centennial Meeting 3 posters, Atlanta, Georgia, March 1999
- ♦ GEC Meeting 3 posters, Maui, Hawaii, October 1998
- ♦ DAMOP Meeting 2 posters, Santa Fe, New Mexico, June 1998
- Atomic Processes in Plasmas coauthor of an invited talk, Auburn, Alabama, March 1998
- Molecular Ion Physics Workshop poster, ORNL, Oak Ridge, Tennessee, February 1998
- Workshop on Collisions of Cold, Trapped Atoms poster, Boulder, Colorado, November 1997
- APS Meeting poster, Washington DC, April 1997
- International Workshop in Impedance Tomography poster, Heidelberg, Germany, September 1995

- ♦ Summer School "Collective Motion in Nuclear Physics" , Predeal, Romania, August 1995
- ♦ Winter School "Two dimensional Quantum Field Theory" , Schladming, Austria, March 1995
- ♦ 11th International Biophysics Congress poster, Budapest, Hungary, July 1993
- ♦ Workshop "Interfaces between Physics and Mathematics" poster, Vienna, Austria, March 1992

∇ REFERENCES LETTERS MAY BE OBTAINED FROM: (back to index page)

⋄ Prof. Carlos R. Handy

Department of Physics, Texas Southern University, 3100 Cleburne Ave, Houston TX 77004 e-mail: handycr@tsu.edu

tel: 731.313.1850

⋄ Dr. Lee Collins

Group T-4, Atomic and Optical Theory Los Alamos National Laboratory Los Alamos, NM 87545 e-mail:lac@lanl.gov

tel: 505.667.2100

♦ Dr. Hossein Sadeghpour

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