UMESH GARG

PROFESSOR OF PHYSICS **AT NOTRE DAME**
SINCE JUNE, 1982

Birla Institute of Technology & Science, Pilani, India; 1972; B.Sc.
Birla Institute of Technology & Science, Pilani, India; 1974; M.Sc.
State University of New York at Stony Brook, New York; 1975; M.A.
State University of New York at Stony Brook, New York; 1978; Ph.D.

Graduate Assistant, S.U.N.Y., 1974-1978.
Research Associate, Texas A&M University, 1978-1982.
Assistant Professor, University of Notre Dame, 1982-1987.
Associate Professor, University of Notre Dame, 1987-1994.
Professor, University of Notre Dame, 1994-
Fellow, Liu Institute for Asia and Asian Studies, Univ. of Notre Dame 2013-
Fellow, Rome International Scholars Program, Univ. of Notre Dame 2015-
Adjunct Professor, Tata Institute of Fundamental Research, Mumbai 2014-
Guest Professor, Peking University 2015-2020
Guest Professor, Xi'an Jiaotong University 2019-2022
Distinguished Adjunct Professor, BITS, Pilani, 2020-

Fellow, American Physical Society (since 1999)
Fellow, American Association for Advancement of Science (since 2017)

Fulbright Specialist Award 2015-2020
Fulbright-Nehru Academic Excellence Senior Scholar Award 2022-23
Fulbright Specialist Award 2023-

Board of Editors, Progress of Theoretical and Experimental Physics, Japan, 2021-

Consultant, Cyclotron Institute, Texas A&M Univ., August 1982 and June 1983.
Guest Scientist, Argonne National Laboratory, 1983-
Visiting Scientist, B.A.R.C., Bombay, India, June 1985, January 1987, and October 2003.
Faculty Research Participant, Argonne National Laboratory, July-August 1985.
Visiting Professor, Vrije Universiteit, Amsterdam, The Netherlands, August 1988 - August 1989.
EMMI Visiting Professor, GSI, Darmstadt, Germany, 2011.
Visiting Professor, TIFR, Mumbai, India, 2012.
JSPS Fellow, RIKEN, Japan, 2012.
PKU Fellow, Peking University, China, 2012.
JSPS Fellow, RIKEN, Japan, 2023.

Government of India Merit Scholarship in Residential Schools, 1961-1968.

Government of India National Merit Scholarship at BITS, Pilani, 1968-1974.

Teaching Assistantship, S.U.N.Y., Stony Brook, 1974-1975.

NSF Research Assistantship, S.U.N.Y., Stony Brook, 1975-1978.

State Education Board Gold Medal for securing 1st rank out of >100,000 candidates at the Higher Secondary Examination, 1969.

BITS Institute Gold Medals for securing 1st ranks in the B.Sc. (Phys. Sc.) and M.Sc. (Physics) programs.

Member, STAR Council, 1992-1999

Member, Program Committee, Division of Nuclear Physics, American Physical Society, 1995-1997

Member, Executive Committee, National Physics REU Leadership Group 2010-2013

Member, Program Advisory Committee, RCNP, Osaka, 2012-2015

Vice Chair, Gordon Research Conference on Nuclear Chemistry 2013

Advisory Board, Journal of Nuclear Physics, Material Sciences, Radiation and Applications, 2013-

Member, CAGRA Steering Committee, 2014-2018

Chair, Gordon Research Conference on Nuclear Chemistry 2015

Member, Governance Committee, American Physical Society, 2015-2018

Member, US-China FRIB Task Force, 2015-

Pelletron Program Advisory Committee, Tata Institute of Fundamental Research, India, 2020-

Kaneb Teaching Award, Univ. of Notre Dame, 2006

Inaugural Terrence Akai Award for Service to International Students, Univ. of Notre Dame, 2010

The Faculty Award, Univ. of Notre Dame, 2018

Dick and Peggy Notebaert Award, Graduate School, Univ. of Notre Dame, 2022

Chair, Graduate Student Organization, S.U.N.Y., Stony Brook, 1976-77.

Member, University Senate, S.U.N.Y., Stony Brook, 1976-77.

Member, University Council, S.U.N.Y., Stony Brook, 1977.

Member, Faculty Senate, University of Notre Dame, 1991-97, 2003-04, 2020-2023

Member, Academic Affirmative Action Committee, University of Notre Dame, 1992-95.

Member, Graduate Council, University of Notre Dame, 1999-2002; 2006-07; 2010-13

Member Academic Council, University of Notre Dame, 2000-03; 2006-08; 2010-13, 2016-18
Executive Committee, 2000-03, 2006-08, 2010-13, 2016-17

Member, College Council, University of Notre Dame, 1999-2002.

Member, Faculty Athletic Board, University of Notre Dame, 2002-05; 2007-14.

Member, Clark-Niebuhr Award Committee, University of Notre Dame, 2002-16.

Member, University Committee on Diversity, University of Notre Dame, 2005-12.

Member, Committee on Revising Drug Testing Policies, University of Notre Dame, 2012-13.

Member, Drug Testing Policy Committee, Univ. of Notre Dame, 2013-14.

Member, Provost Advisory Committee, University of Notre Dame, 2013-2016.

Member, Bookstore Advisory Committee, University of Notre Dame 2014-2017.

Member, Healthcare Strategies Working Group, University of Notre Dame, 2015.

Member, Committee on First Year of Studies, Univ. of Notre Dame, 2015-2020

Member, Univ. Committee on Honor Code, Univ. of Notre Dame, 2020-

Member, Faculty Athletic Board, Univ. of Notre Dame, 2023-

Faculty Advisor, India Association of Notre Dame, 2001-11, 2014-2020

Faculty Advisor, Risk Club, University of Notre Dame, 2006-11.

Organizer, ND/Argonne BGO Workshop, Notre Dame, 1983.

Member, Organizing Committee, APS DNP Fall Meeting, Notre Dame, 1983.

Chairperson, Nominating Committee, NSCL Users' Group, 1984.

Co-Chairman, Organizing Committee, SNEAP XX, 1986.

Co-Editor, SNEAP XX Proceedings (World Scientific, 1987).

Member, Design Committee, GAMMASPHERE project.

Member, Organizing Committee, Wetherill Symposium on Nuclear Superdeformation, Philadelphia, 1991.

Chairman, Organizing Committee, Notre Dame Workshop on Giant Resonances and Related Phenomena, Notre Dame, 1991.

Chairman, Nominating Committee, Indian Physics Association, U.S. Chapter, 1992-97.

Coordinator, Proposal for a RDM device for GAMMASPHERE, 1992-96.

Member, International Advisory Committee, International Workshop on Physics with Recoil Separators and Detector Arrays, New Delhi, India, 1995.

Member, North American Ad-hoc Committee for INPC 2001, 1995.

Member, Organizing Committee, Conference on Nuclear Structure at the Limits, Argonne, IL, 1996.

Co-organizer, RIKEN Symposium and Workshop on Selected Topics in Nuclear Collective Excitations, Saitama, Japan, 1999.

Member, International Advisory Board, International Symposium on Exotic Nuclear Structures (ENS 2000), Debrecen, Hungary, 2000.

Member, International Advisory Committee, International Symposium on Nuclear Physics, Mumbai, India, 2000.

Organizer, Notre Dame Mini-Workshop on Nuclear Incompressibility, Notre Dame, 2001.

Member, International Advisory Committee, Symposium on Nuclear Physics, Mumbai, India, 2001.

Member, International Advisory Committee, Conference on Nuclear Structure and Related Topics (NSRT03), Dubna, Russia, 2003.

Organizer, JINA Workshop on Nuclear Incompressibility, Notre Dame, 2005.

Organizer, Indo-US Workshop on Physics with Energetic Heavy Ions and Rare Isotopes: Towards a Common Ground, Chandigarh, India, 2005.

Member, International Advisory Committee, NSRT06, Dubna, Russia, 2006.

Member, Awards Committee, American Chapter of Indian Physics Association, 2006-09; Chair, 2007-08.

Discussion Leader on the topic of Symmetry Energy and Astrophysics at the 2008 Gordon Conference on Nuclear Chemistry, 2008.

Member, International Advisory Committee, International Conference on Nuclear Structure and Related Topics (NSRT09), Dubna, Russia, 2009.

Member, International Advisory Committee, YRAST09, School-cum-Workshop on Nuclear Yrast and Near-Yrast States, Roorkee, India, 2009.

Member, Organizing Committee, NuSYM11: International Symposium on Nuclear Symmetry Energy, Northampton, MA, 2011.

Member, International Advisory Board, NSRT2012, Dubna, Russia, 2012.

Member, International Advisory Committee, COMEX4, Kanagawa, Japan, 2012.

Member, International Board, National Seminar on Emerging Trends in Biotechnological Research, Ghaziabad, India, 2012.

Member, International Advisory Committee, 5th International Conference on Current Problems in Nuclear Physics and Atomic Energy. Kyiv, 2014.

Chair, Organizing Committee, Notre Dame-Europe Symposium on Nuclear Science and Society, London, 2014.

Member, International Advisory Committee, International Workshop on Nuclear Science and Simulation in Fundamental and Applied Researches, Ho Chi Minh City, Vietnam, 2015.

Member, International Advisory Board, NSRT2015, Dubna, Russia, 2015

Member, International Advisory Committee, COMEX5, Krakow, Poland, 2015.

Chair, Organizing Committee, Notre Dame-Europe Symposium on Nuclear Science and Society, Rome, 2015.

Member, International Advisory Committee, International Conference on Nuclear Physics with Energetic Heavy Ion Beams, Chandigarh, India, 2017.

Member, International Advisory Committee, CUSTIPEN Workshop, Beijing, China, 2017.

Member, International Advisory Committee, FIG15, Mumbai, India, 2018.

Chair, Organizing Committee, Notre Dame-China Symposium on Exotic Nuclear Structures, Beijing, China, 2018.

Member, International Advisory Committee, COMEX6, Cape Town, South Africa, 2018.

Member, International Advisory Committee, Carpathian Summer School of Physics, 2020.

Organizer, ECT* Workshop on Advances on Giant Nuclear Monopole Excitations and Applications to Multi-Messenger Astrophysics, Trento, Italy, July 11-15, 2022.

Member, International Advisory Committee, COMEX7, Catania, 2024.

Referee, Physical Review Letters, Physics Letters B, Physical Review C, Nuclear Physics A, Modern Physics Letters A, Physics Reports, Journal of Physics G, Pramana, European Physics Journal A, Europhysics Letters, Chinese Physics C

Reviewer, National Science Foundation, Department of Energy

NSF Review Panels for Physics Division

Funded international collaboration projects with India, Japan, the Netherlands, and Poland.

Research Activities

Since June 1982 - Physics Department, University of Notre Dame

Current research interests are nuclear incompressibility and the equation of state of dense nuclear matter, and exotic quantal rotation in nuclei. Experiments are carried out at the ATLAS accelerator facility at Argonne; RCNP, Osaka, Japan; RIKEN, Japan; GANIL, France; and TIFR, Mumbai, India.

Important recent accomplishments include the discovery of the isoscalar giant dipole resonance, an exotic mode of nuclear deformation, and elucidation of its properties; experimental determination of the nuclear incompressibility and the asymmetry term; first observation of "softness" of open-shell nuclei; first observation of tidal waves in nuclei; firstobservation of a composite pair of chiral rotational bands, and affirmation of chirality in odd-A nuclei; first observation of multiple chiral bands (MχD) in nuclei; first observation of transverse wobbling motion in a new region of nuclei (A~130); and, first observation of longitudinal wobbling motion in nuclei.

Led the Notre Dame effort in the construction and operation of the Notre Dame/Argonne BGO Detector System for use at ATLAS. This device consisted of a 50-element BGO "ball" surrounded by 12 Compton-suppressed Ge detectors.

Led the effort in the design, fabrication, testing and installation of a state-of-art RDM device for use in conjunction with Gammasphere.

Nov. 1978 - May 1982 - Research Associate, Texas A & M University

Research work involved experimental studies of giant resonances, especially the isoscalar breathing mode state, using inelastic alpha- and heavy-ion scattering, and spectroscopic studies of nuclei using "massive transfer" reactions. An important accomplishment was the discovery of the splitting of the giant monopole resonance in deformed nuclei.

Sept. 1974 - Nov. 1978 - Graduate Assistant, S.U.N.Y. at Stony Brook

Thesis work involved experimental studies of high-spin states and band structures in the Z>50 transitional nuclei using the techniques of in-beam γ-ray spectroscopy following (HI, x*p*y*n*) reactions. An important accomplishment was the observation of band structures built on deformed $9/2^+$ proton hole states in the light-mass Cs nuclei.

Umesh Garg

List of Scientific Publications (Refereed Journals)

1. "Deformed $9/2^+$ proton-hole states in odd-A $^{119-125}$Cs," **U. Garg**, T.P. Sjoreen and D.B. Fossan, Phys. Rev. Lett. **40**, 831 (1978).

2. "The g-factor of the $25/2^+$ isomeric state in ^{207}At; Evidence for neutron excitation," T.P. Sjoreen, **U. Garg** and D.B. Fossan, Phys. Lett. **76B**, 397 (1978).

3. "Magnetic moment measurement of the ^{129}Cs $11/2^-$ isomer in a CsI cubic environment," M.S. Dewey, H.-E. Mahnke, P. Chowdhury, **U. Garg**, T.P. Sjoreen and D.B. Fossan, Phys. Rev.C **18**, 2061 (1978).

4. "Collective properties of the odd-mass Cs nuclei I: ^{127,129,131,133}Cs," **U. Garg**, T.P. Sjoreen and D.B. Fossan, Phys. Rev. C **19**, 207 (1979).

5. "Collective properties of the odd-mass Cs nuclei II: ^{119,121,123,125}Cs," **U. Garg**, T.P. Sjoreen and D.B. Fossan, Phys. Rev. C **19**, 217 (1979).

6. "High-spin states in the odd-odd nucleus ^{212}At," T.P. Sjoreen, **U. Garg**, D.B. Fossan, J.R. Beene, T.K. Alexander, E.D. Earle, O. Hausser and A.B. McDonald, Phys. Rev. C **20**, 960 (1979).

7. "High-spin states in ^{210}Rn: The effect of the neutron holes on the four-proton configurations," A.R. Poletti, T.P. Sjoreen, D.B. Fossan, **U. Garg**, A. Neskakis and E.K. Warburton, Phys. Rev. C **20**, 1768 (1979).

8. "Isoscalar breathing mode state in ^{90}Zr and ^{116}Sn," C.M. Rozsa, D.H. Youngblood, J.D. Bronson, Y.-W. Lui and **U. Garg**, Phys. Rev. C **21**, 1252 (1980).

9. "Spectroscopy of ^{213}At, ^{212}Po and ^{210}Pb following ^{208}Pb + ^{7}Li," T.P. Sjoreen, **U. Garg** and D.B. Fossan, Phys. Rev. C **21**, 1838 (1980).

10. "Observation of giant monopole resonance in ^{64,66}Zn," Y.-W. Lui, P. Bogucki, J.D Bronson, **U. Garg**, C.M. Rozsa, and D.H. Youngblood, Phys. Lett. **93B**, 31 (1980).

11. "Excitation of giant resonances in ^{208}Pb using inelastic ^{14}N scattering," **U. Garg**, P. Bogucki, J.D. Bronson, Y.-W. Lui, K. Nagatani, E. Takada, N. Takahashi, T. Yamaya, and D.H. Youngblood, Phys. Lett. **93B**, 39 (1980).

12. "Splitting of the giant monopole resonance with deformation in Sm nuclei," **U. Garg**, P. Bogucki, J.D. Bronson, Y.-W. Lui, C.M. Rozsa, and D.H. Youngblood, Phys. Rev. Lett. **45**, 1670 (1980).

13. "High-spin states in ^{207}At," T.P. Sjoreen, **U. Garg**, and D.B. Fossan, Phys. Rev. C **23**, 272 (1981).

14. "Band structure in neutron-deficient ^{117,119,121}Xe nuclei," P. Chowdhury, **U. Garg**, T.P. Sjoreen, and D.B. Fossan, Phys. Rev. C **23**, 733 (1981).

15. "Systematics of the giant monopole resonance from inelastic alpha scattering," D.H. Youngblood, P. Bogucki, J.D. Bronson, **U. Garg**, Y.-W. Lui, and C.M. Rozsa, Phys. Rev. C **23**, 1997 (1981).

16. "Giant resonances in ^{40}Ca," Y.-W. Lui, J.D. Bronson, C.M. Rozsa, D.H. Youngblood, P. Bogucki, and **U. Garg**, Phys. Rev. C **24**, 884 (1981).

17. "High spin states in ^{205}At," T.P. Sjoreen, D.B. Fossan, **U. Garg**, A. Neskakis, A.R. Poletti, and E.K. Warburton, Phys. Rev. C **25**, 889 (1982).

18. "In-beam spectroscopy of neutron-rich nuclei: A new application of massive-transfer reactions," D.R. Haenni, T.T. Sugihara, R.P. Schmitt, G. Mouchaty, and **U. Garg**, Phys. Rev. C **25**, 1699 (1982).

19. "Comment on the Evidence for a Giant Monopole Resonance in ^{58}Ni," **U. Garg**, D.H. Youngblood, P. Bogucki, J.D. Bronson, Y.-W. Lui, and C.M. Rozsa, Phys. Rev. C **25**, 3204 (1982).

20. "Giant Monopole Resonance in Transitional and Deformed Nuclei," **U. Garg**, P. Bogucki, J.D. Bronson, Y.-W. Lui, and D.H. Youngblood, Phys. Rev. C **29**, 93 (1984).

21. "Angular Momentum Alignment in the Reaction ^{154}Sm + 214MeV ^{32}S," G. Mouchaty, D.R. Haenni, S. Nath, **U. Garg**, and R.P. Schmitt, Z. Phys. A **316**, 285 (1984).

22. "Giant Resonances in ^{112}Sn," Y.-W. Lui, P. Bogucki, J.D. Bronson, D.H. Youngblood, and **U. Garg**, Phys. Rev. C **30**, 51 (1984).

23. "Giant Resonances in ^{90}Zr Excited with 35 MeV/nucleon ^{14}N Ions," **U. Garg**, **W.A. Hollerman**, A. Galsonky, W.G. Lynch, M.B. Tsang, J. van der Plicht, Y.W. Lui, and D.H. Youngblood, J. Phys. Soc. Jpn. **54**, Suppl. II, 505 (1985).

24. "Backbending in the $1/2^-$[541] Band in ^{181}Ir," **U. Garg**, **E.R. Marshalek**, **A. Chaudhury**, **E.G. Funk**, **R. Kaczarowski**, **J.W. Mihelich**, D. Frekers, R.V.F. Janssens, and D. Radford, Phys. Lett. **151B**, 335 (1985).

25. "Collective Structures in the Odd-Z Transitional Nuclei ^{115,117}I and ^{121,123}Sb," W.F. Piel, Jr., P. Chowdhury, **U. Garg**, M.A. Quader, P.M. Stwertka, S. Vajda, and D.B. Fossan, Phys. Rev. C **31**, 456 (1985).

26. "Giant Quadrupole and Monopole Resonances in ^{28}Si," Y.-W. Lui, J.D. Bronson, D.H. Youngblood, Y. Toba, and **U. Garg**, Phys. Rev. C **31**, 1643 (1985).

27. "Total γ-ray Spectrum in ^{153}Ho: From the Yrast line into the Continuum," D. Radford, I. Ahmad, R. Holzmann, R.V.F. Janssens, T.L. Khoo, **M.W. Drigert**, **U. Garg**, and H. Helppi, Phys. Rev. Lett. **55**, 1727 (1985).

28. "Nuclear Structure in ^{95,97}Ru Nuclei," P. Chowdhury, B.A. Brown, **U. Garg**, R.D. McKeown, T.P. Sjoreen, and D.B. Fossan, Phys. Rev. C **32**, 1238 (1985).

29. "Gamma-ray Multiplicity Distribution Associated with Massive Transfer," T. Inamura, A.C. Kahler, D.R. Zolnowski, **U. Garg**, T.T. Sugihara, and M. Wakai, Phys. Rev. C **32**,1539 (1985).

30. "Intruder States in Highly Neutron Deficient Pt Nuclei: Evidence from Lifetime Measurements?" **U. Garg**, **M.W. Drigert**, **A. Chaudhury**, **E.G. Funk**, **J.W. Mihelich**, D.C. Radford, H. Helppi, R. Holzmann, R.V.F. Janssens, T.L. Khoo, A.M. Van den Berg, and J.L. Wood, in *Nuclei Off the Line of Stability*, edited by R.A. Meyer and D.S. Brenner, 1986 (ACS Symposium Series **324**, American Chemical Society, Washington, DC), p. 239.

31. "Band Structure Change in Z>50 Region: Doubly Odd ^{120,122}Cs and ^{126,128}La," M.A. Quader, C.W. Beausang, P. Chowdhury, **U. Garg**, W.F. Piel, Jr., and D.B. Fossan, Phys. Rev. C **33**, 1109 (1986).

32. "Direct Contributions to the Decay of Isoscalar Giant Resonances in ^{58}Ni," P. Grabmayr, G.J. Wagner, K.T. Knopfle, H. Riedesel, P. Bogucki, J.D. Bronson, Y.W. Lui, **U. Garg**, and D.H. Youngblood, Phys. Rev. C **34**, 322 (1986).

33. "The Correlation of Linear Momentum and Angular Momentum Transfer in the Reactions of 310 MeV ^{16}O with ^{154}Sm," M.N. Namboodiri, R.K. Choudhury, L. Adler, J.D. Bronson, D. Fabris, **U. Garg**, P. Gonthier, K. Hagel, D. R. Haenni, Y.-W. Lui, Z. Majka, G. Mouchaty, T. Murakami, J.B. Natowitz, G Nebbia, R.D. Schmitt, S. Simon, J.P. Sullivan, and D.H. Youngblood, J. de Physique, Colloque C4, **47**, 101 (1986).

34. "Lifetime Measurements in ^{184}Pt and the Shape Co-existence Picture," **U. Garg**, **A. Chaudhury**, **M.W. Drigert**, **E.G. Funk**, **J.W. Mihelich**, D.C. Radford, H. Helppi, R. Holzmann, R.V.F. Janssens, T.L. Khoo, A.M. Van den Berg, and J.L. Wood, Phys. Lett. **180B**, 319 (1986).

35. "Linear Momentum and Angular Momentum Transfer in the Reactions of ^{16}O with ^{154}Sm," M.N. Namboodiri, R.K. Choudhury, L. Adler, J.D. Bronson, D. Fabris, **U. Garg**, P.L. Gonthier, K. Hagel, D.R. Haenni, Y.W. Lui, Z. Majka, G. Mouchaty, T. Murakami, J.B. Natowitz, G. Nebbia, R.P. Schmitt, S. Simon, J.P. Sullivan, and D.H. Youngblood, Phys. Rev. C **37**, 149 (1987).

36. "Level Structure of ^{148}Gd Up to I = 44," M. Piiparinen, **M.W. Drigert**, R.V.F. Janssens, I. Ahmad, J. Borggreen, R.R. Chasman, P.J. Daly, B.K. Dichter, H. Emling, **U. Garg**, Z.W. Grabowski, R. Holzmann, T.L. Khoo, W.C. Ma, M. Quader, D.C. Radford, and W. Trzaska, Phys. Lett. B **194**, 468 (1987).

37. "Evolution of Nuclear Structure with Increasing Spin and Internal Excitation Energy in ^{152}Dy," R. Holzmann, I. Ahmad, B.K. Dichter, H. Emling, R.V.F. Janssens, T.L. Khoo, W.C. Ma, **M.W. Drigert**, **U. Garg**, D.C. Radford, P.J. Daly, Z. Grabowski, H. Helppi, M. Quader, and W. Trzaska, Phys. Lett. B **195**, 321 (1987).

38. "A New Method for Measuring the Neutron-Induced Background in BGO Compton-Suppressed Ge Detectors Applied to In-Beam γ-Ray Studies," R. Holzmann, I. Ahmad, R.V.F. Janssens, T.L. Khoo, D.C. Radford, **M.W. Drigert**, and **U. Garg**, Nucl. Inst. Methods A **260**, 153 (1987).

39. "Evidence for Superdeformation in ^{148}Gd," **M.W. Drigert**, R.V.F. Janssens, R. Holzmann, R.R. Chasman, I. Ahmad, J. Borggreen, P.J. Daly, B.K. Dichter, H. Emling, **U. Garg**, Z.W. Grabowski, T.L. Khoo, W.C. Ma, M. Piiparinen, M. Quader, D.C. Radford, and W. Trzaska, Phys. Lett. B **201**, 223 (1988).

40. "Electromagnetic Transitions in Neutron-Rich ^{40}Cl," R.L. Kozub, J.F. Shriner, Jr., M.M. Hindi, R. Holzmann, R.V.F. Janssens, T.L. Khoo, W.C. Ma, **M. Drigert**, **U. Garg**, and J.J. Kolata, Phys. Rev. C **37**, 1791 (1988).

41. "Giant Resonance Studies Using Inelastic Scattering of Heavy Ions," **U. Garg**, Notas de Fisica, Mexico **11**, 87 (1988).

42. "Structural Changes Along and Above the Yrast Line of ^{154}Dy," W.C. Ma, M.A. Quader, I. Ahmad, P.J. Daly, B.K. Dichter, **M. Drigert**, H. Emling, **U. Garg**, Z.W. Grabowski, R. Holzmann, R.V.F. Janssens, T.L. Khoo, M. Piiparinen, W.H. Trzaska, and T.-F. Wang, Phys. Rev. Lett. **61**, 46 (1988).

43. "A Superdeformed Band in ^{151}Dy," G.E. Rathke, R.V.F. Janssens, **M.W. Drigert**, I. Ahmad, **K. Beard**, R.R. Chasman, **U. Garg**, M. Hass, T.L. Khoo, H.J. Körner, W.C. Ma, S. Pilotte, P. Taras, and R.L.H. Wolfs, Phys. Lett. B **209**, 177 (1988).

44. "When Nuclei Really Get Dizzy: Investigations at High Angular Momentum with the Argonne/Notre Dame Gamma Ray Facility," **U. Garg** in Proc. Symp. on Nuclear Physics **31A**, 249 (1988).

45. "Structure in the E2 Quasicontinuum Spectrum of ^{154}Dy," R. Holzmann, T.L. Khoo, W.C. Ma, I. Ahmad, B.K. Dichter, H. Emling, R.V.F. Janssens, **M.W. Drigert**, **U. Garg**, M.A. Quader, P.J. Daly, M. Piiparinen, and W. Trzaska, Phys. Rev. Lett. **62**, 520 (1989)

46. "Lifetime Measurements of Terminating and Collective High-Spin Configurations in ^{155}Dy and ^{156}Dy," H. Emling, I. Ahmad, P.J. Daly, B. Dichter, **M. Drigert**, **U. Garg**, Z. Grabowski, R. Holzmann, R.V.F. Janssens, T.L. Khoo, W.C. Ma, M. Piiparinen, I. Ragnarsson, W.H. Trzaska and M.A. Quader, Phys. Lett. B **217**, 33 (1989).

47. "The g-factor of the 59/2, 1ns level in ^{147}Gd," M. Hass, I. Ahmad, R.V.F. Janssens, T.L. Khoo, H.J. Körner, E.F. Moore, F.L.H. Wolfs, N. Benczer-Koller, E. Dafni, **K. Beard**, **U. Garg**, P.J. Daly, and M. Piiparinen, Phys. Rev. C **39**, 2237 (1989).

48. "Observation of Superdeformation in ^{191}Hg," E.F. Moore, R.V.F. Janssens, R.R. Chasman, I. Ahmad, T.L. Khoo, F.L.H. Wolfs, **D. Ye**, **K.B. Beard**, **U. Garg**, M.W. Drigert, Ph. Benet, Z.W. Grabowski, and J.A. Cizewski, Phys. Rev. Lett. **63**, 360 (1989).

49. "Interplay between single-particle and collective degrees of freedom in the excitation of the low-lying quadrupole states in ^{142}Nd," R.K.J. Sandor, H.P. Blok, **U. Garg**, M.N. Harakeh, C.W. de Jager, V. Yu. Ponomarev, A.I. Vdovin, and H. de Vries, Phys. Lett. B **233**, 54 (1989).

50. "A Superdeformed Band in ^{192}Hg," **D. Ye**, R.V.F. Janssens, M.P. Carpenter, E.F. Moore, R.R. Chasman, I. Ahmad, **K.B. Beard**, Ph. Benet, M.W. Drigert, P.B. Fernandez, **U. Garg**, T.L. Khoo, S.L. Ridley, and F.L.H. Wolfs, Phys. Rev. C **41**, R13 (1990).

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257. "Signature of a possible α-cluster state in $N = Z$ doubly-magic ^{56}Ni," S. Bagchi, H.Akimune, J. Gibelin, M.N. Harakeh, N. Kalantar-Nayestanaki, N.L. Achouri, B. Bastin, K. Boretzky, H. Bouzomita, M. Caamaño, L. Càceres, S. Damoy, F. Delaunay, B. Fernández-Domínguez, M. Fujiwara, **U. Garg**, G.F. Grinyer, O. Kamalou, E. Khan, A. Krasznahorkay, G. Lhoutellier, J.F. Libin, S.Lukyanov, K. Mazurek, M.A. Najafi, J. Pancin, Y. Penionzhkevich, L. Perrot, R. Raabe, C. Rigollet, T. Roger, S. Sambi, H. Savajols, M. Senoville, C. Stodel, L. Suen, J.C. Thomas, M. Vandebrouck, and J. Van de Walle, Eur. Phys. J. A **56**, 290 (2020).

258. "Investigation of the alignment mechanism and loss of collectivity in ^{135}Pm," F. S. Babra, S. Jehangir, R. Palit, S. Biswas, B. Das, S. Rajbanshi, G.H. Bhat, J.A. Sheikh, Biswajit Das, P. Dey, **U. Garg**, Md. S.R.Laskar, C. Palshetkar, S. Saha, L. P. Singh, and P. Singh, Phys. Rev. C **103**, 014316 (2021).

259. "Evidence of antimagnetic rotational motion in ^{103}Pd," A. Sharma, R. Raut, S. Muralithar, R.P. Singh, S.S. Bhattacharjee, S. Das, S. Samanta, S.S. Ghugre, R. Palit, S. Jehangir, N. Rather, G.H. Bhat, J.A. Sheikh, S.S. Tiwary, Neelam, P.V. Madhusudhana Rao, **U. Garg**, and S.K. Dhiman, Phys. Rev. C **103**, 024324 (2021).

260. "Investigation of the isoscalar response of ^{24}Mg to ^{6}Li scattering," J.C. Zamora, C. Sullivan, R.G.T. Zegers, N. Aoi, L. Batail, D. Bazin, M. Carpenter, J. J. Carroll, Y.D. Fang, H. Fujita**, U. Garg**, G. Gey, C.J. Guess, M.N. Harakeh, T.H. Hoang, E. Hudson, N. Ichige, E. Ideguchi, A. Inoue, J. Isaak, C. Iwamoto, C. Kacir, N. Kobayashi, T. Koike, M. Kumar Raju, S. Lipshutz, M. Liu, P. von Neumann-Cosel, S. Noji, H.J. Ong, S. Péru, J. Pereira, J. Schmitt, A. Tamii, R. Titus, V. Werner, Y. Yamamoto, X. Zhou, and S. Zhu, Phys. Rev. C **104**, 014607 (2021).

261. "Enhanced $B(E3)$ strength observed in ^{137}La," Md. S.R. Laskar, R. Palit, E. Ideguchi, T. Inakura, S.N. Mishra, F.S. Babra, S. Bhattacharya, D. Choudhury, Biswajit Das, B. Das, P. Dey, **U. Garg**, A.K. Jain, A. Kundu, D. Kumar, D. Negi, S.C. Pancholi, S. Rajbanshi, and S. Sihotra, Phys. Rev. C **104**, L011301 (2021)

262. "Experimental investigation of high-spin states in ^{90}Zr," P. Dey, D. Negi, R. Palit, P.C. Srivastava, Md. S.R. Laskar, B. Das, F.S. Babra, S. Bhattacharya, Biswajit Das, K. Rojeeta Devi, R. Gala, **U. Garg**, S.S. Ghurgre, E. Ideguchi, S. Kumar, A. Kundu, G. Mukherjee, S. Muralithar, S. Nag, S. Nandi, Neelam, M. Kumar Raju, R. Raut, R. Santra, A. Sharma, S. Sihotra, A.K. Singh, R.P. Singh, and T. Trivedi, Phys. Rev. C **105**, 044307 (2022).

263. "Chiral-like doublet band structure and octupole correlations in ^{104}Ag," Kaushik Katre, P.V. Madhusudhana Rao, R. Raut, A. Sharma, K. Suryanarayana, A. Tejaswi, M. Ratna Raju, D. Vijaya Lakshmi, T. Seshi Reddy, M. Kumar Raju, S. Jehangir, N. Rather, G.H. Bhat, Nazira Nazir, J.A. Sheikh, Y.P. Wang, J.T. Matta, A.D. Ayangeakaa, **U. Garg**, S.S. Ghurgre, T. Trivedi, B.S. Naidu, R. Palit, S. Saha, S. Muralithar, and R.P. Singh, Phys. Rev. C **106** 034323 (2022).

264. "Single-particle configurations of the excited states of ^{203}Po," S. Chatterjee, B. Mondal, A. Ghosh, D. Arora, S. Das, S. Samanta, R. Raut, S.S. Ghurgre, P.C. Srivastava, A.K. Sinha, **U. Garg**, H.K. Singh, Neelam, K. Rojeeta Sharma, S.S. Bhattacharjee, R. Garg, I. Bala, R.P. Singh, and S. Muralithar, Phys. Rev. C **106**, 044329 (2022).

265. "Isoscalar Giant Resonances: Experimental Studies", U. Garg in **Handbook of Nuclear Physics**, I. Tanihata, H. Toki, T. Kajino (eds), Springer, Singapore, (2022). https://doi.org/10.1007/978-981-15-8818-1_74-1

266. "Single-particle configurations of low- and medium-spin states in ^{63}Cu," S. Chatterjee, B. Mondal, S. Samanta, S. Das, R. Raut, S.S. Ghurgre, P.C. Srivastava, A.K. Sinha, **U. Garg**, Neelam, Naveen Kumar, P. Jones, Md. S.R. Laskar, F.S. Barbra, S. Biswas, S. Saha, P. Singh, and R. Palit, Phys. Rev. C **107**, 024312 (2023).

267. "Evolution of structure and shapes in ^{158}Er at ultrahigh spin," J. Simpson, M.A. Riley, A. Pipidis, E.S. Paul, X. Wang, P.J. Nolan, J.F. Sharpey-Schafer, A. Aguilar, D.E. Appelbe, **A.D. Ayangeakaa**, A.J. Boston, H.C. Boston, D.B. Campbell, M.P. Carpenter, C.J. Chiara, P.T.W. Choy, R.M. Clark, M. Cromaz, A.O. Evans, P. Fallon, **U. Garg**, A. Görgen, D.J. Hartley, R.V.F. Janssens, D.T. Joss, D.S. Judson, F.G. Kondev, T. Lauritsen, I.Y. Lee, A.O. Macchiavelli, **J.T. Matta**, J. Ollier, M. Petri, J.P. Revill, L.L. Riedinger, S.V. Rigby, C. Teal, P.J. Twin, C. Unsworth, D. Ward, S. Zhu, and I. Ragnarsson, Phys. Rev. C **107**, 054305 (2023).

268. "Precise determination of quadrupole and hexadecapole deformation parameters of the *sd*-shell nucleus, ^{28}Si," Y.K. Gupta, V.B. Katariya, G.K. Prajapati, K. Hagino, D. Patel, V. Ranga, **U. Garg**, L.S. Danu, A. Pal, B.N. Joshi, S. Dubey, V.V. Desai, S. Panwar, N. Kumar, S. Mukhopadhyay, Pawan Singh, N. Sirswal, R. Sariyal, I .Mazumdar, B.V. John, Phys. Lett. B **845**, 138120 (2023).

Invited Presentations

AT NATIONAL AND INTERNATIONAL MEETINGS AND CONFERENCES:

1. "Excitation of Giant Resonances in ^{208}Pb Using Inelastic ^{14}N Scattering," International Conference on Nuclear Physics, Berkeley, CA, August 24-30, 1980.

2. "Mixing of the Giant Monopole and Giant Quadrupole Modes in the Transitional Nucleus ^{148}Sm," International Summer School on Nuclear Structure, Dronten, Netherlands, August 16-28, 1982.

3. "The Proposed Notre Dame/Argonne BGO Sum-Energy/Multiplicity Spectrometer," Workshop on BGO Multi-Detector Spectrometer Systems, Notre Dame, July 15, 1983.

4. "The ND/ANL BGO Sum-Energy/Multiplicity Spectrometer and Multi-Compton-Suppression Spectrometer System," ATLAS Facilities Workshop, Argonne, IL, November 8, 1983.

5. "Giant Resonances in ^{90}Zr Excited with 35 MeV/nucleon ^{14}N Ions," INS-RIKEN. International Symposium on Heavy-Ion Physics, Tokyo and Mt. Fuji, Japan, August 1984 [presented by D. H. Youngblood].

6. "Giant Resonances in ^{90}Zr Using 35 MeV/A ^{14}N Ions," International Conference on Nuclear Physics, Bombay, India, December 27-31, 1984.

7. "Intruder States in Highly Neutron-Deficient Pt Nuclei: Evidence from Lifetime Measurements?" 10th Meeting of the American Chemical Society, Chicago, IL, September 8-13, 1985.

8. "Recent Results from the Notre Dame/Argonne BGO Array," ATLAS Users' Group Meeting, Washington, DC, April 28, 1986.

9. "Lifetime Measurements in the A=180 Region," ATLAS Open PAC Meeting and Workshop, Argonne, IL, October 3, 1986.

10. "The Argonne/Notre Dame Gamma-Ray Facility," Gordon Research Conference on Nuclear Chemistry, June, 1987.

11. "Response Calculations for the Proposed Gamma-Ray Facility," Workshop on a National Gamma-Ray Facility, Oak Ridge, TN, November 19, 1987.

12. "Giant Resonances Using Heavy Ion Inelastic Scattering," International Symposium on Nuclear Physics, Oaxtepec, Mexico, January 4-7, 1988.

13. "When Nuclei Really Get Dizzy," Symposium on Nuclear Physics, Bombay, India, December 27-31, 1988.

14. "Giant Resonance Studies Using Inelastic Scattering of Medium-Energy ^{14}N Ions," Workshop on the Interface Between Nuclear Structure and Heavy-Ion Reaction Dynamics, Notre Dame, May 24-26, 1990.

15. "Superdeformation in the A = 190 Region," Symposium on Nuclear Physics, Madras, India, December 1-4, 1990.

16. "Multiple Shapes in ^{191}Hg," Workshop-Symposium on Future Directions in Nuclear Physics with 4π Detection Systems of the New Generation, Strasbourg, France, March 4-16, 1991.

17. "High Multipole Excitations via Heavy-Ion Inelastic Scattering," Workshop-Symposium on Future Directions in Nuclear Physics with 4π Detection Systems of the New Generation, Strasbourg, France, March 4-16, 1991.

18. "Exotic Shapes in Nuclei," ATLAS Open PAC Meeting and Workshop, Argonne, IL, December 6, 1991.

19. "Electromagnetic Properties of ^{181}Ir: Evidence of β-stretching?" International Conference on Nuclear Structure at High Angular Momentum, Ottawa, Canada, May 18-21, 1992.

20. "Spectroscopy of ^{96}Ru and ^{98}Ru: Structures of Varied Character at $N \geq 52$," ACS Symposium on Nuclear Shapes, Washington, DC, August 23-28, 1992.

21. "Spectroscopy of $^{96\text{-}98}Ru$: Possible Emergence of Collectivity at $N \geq 52$," INS Symposium on Rapidly Rotating Nuclei, Tokyo, Japan, October 26-30, 1992.

22. "Superdeformation in the A=190 Region: Recent Results from the Argonne-Notre Dame Gamma-Ray Facility," Workshop on Nuclear Physics with Small Detector Arrays and Mass Analyzers, New Delhi, India, December 17-19, 1992.

23. "Looking for the Isoscalar Giant Dipole Resonance in ^{208}Pb Inelastic α Scattering at and near 0°," Gull Lake Nuclear Physics conference on Giant Resonances, Gull Lake, MI, August 17-21, 1993 [presented by B. Davis, graduate student].

24. "Lifetime Measurements Using a Plunger with Gamma-Ray Arrays," Symposium on Nuclear Structure Research with the New Arrays and Detectors, American Chemical Society, Chicago, IL, August 23-26, 1993.

25. "Evidence for the Isoscalar Giant Dipole Resonance in Inelastic Alpha Scattering at and near 0°," International Conference on Selected Topics in Nuclear Structure, Dubna, Russia, July 5-9, 1994.

26. "Evidence for the Isoscalar Giant Dipole Resonance in Inelastic Alpha Scattering at and near 0°," Symposium on Nuclear Structure and Reaction Dynamics - The Interface, Washington, DC, August 21-22, 1994.

27. "Evidence for the Isoscalar Giant Dipole Resonance in Inelastic Alpha Scattering at and near 0°," International Workshop on Physics with Recoil Separators and Detector Arrays, New Delhi, India, January 30-February 2, 1995.

28. "Evidence for the Isoscalar Giant Dipole Resonance in Inelastic Alpha Scattering at and near 0°," Groningen Giant Resonance Conference, Groningen, The Netherlands, June 28-July 1, 1995.

29. "Evidence for the Isoscalar Giant Dipole Resonance in Inelastic Alpha Scattering at and near 0°," International Conference on Nuclear Physics (INPC95), Beijing, China, August 21-26, 1995.

30. "Shell Model at Gammasphere: Studies in the A = 95 Region," Workshop on Gammasphere Physics, Berkeley, CA, December 1-2, 1995.

31. "Lifetime Measurements and Shape Coexistence: From Small Arrays to Gammasphere," International Nuclear Physics Symposium (INPS-95), Bombay, India, December 18-22, 1995.

32. "Isoscalar Giant Dipole Resonance in ^{208}Pb from Inelastic Alpha Scattering," ECT* Workshop on Giant Resonances, Trento, Italy, December 9-20, 1996.

33. "Description of Superdeformed Bands in Terms of Incremental Alignment: A New Empirical Tool in Superdeformation Studies," International Conference on Nuclear Structure and Related Topics, Dubna, Russia, September 9-13, 1997.

34. "The 'Other' Giant Dipole Resonance: Investigations of the Squeezing Mode," Fall Meeting, Division of Nuclear Physics, American Physical Society, Whistler, B.C., Canada, October 5-8, 1997.

35. "The Isoscalar Giant Dipole Resonance, the Nuclear Incompressibility and Effective Interactions," International Symposium on New Facet of Spin Giant Resonances in Nuclei, Tokyo, Japan, November 17-20, 1997.

36. "Incremental Alignment: A New Tool in Superdeformation Studies," Symposium on Nuclear Physics, Bangalore, India, December 26-30, 1997.

37. "The Isoscalar Giant Dipole Resonance: A Review," at Topical Conference on Giant Resonances, Varenna, Italy, May 11-16, 1998.

38. "Additivity of Incremental Alignment in the A~150 Superdeformed Region," 6th International Spring Seminar on Nuclear Physics: Highlights of Modern Nuclear Structure, S. Agata sui due Golfi, Italy, May 18-22, 1998.

39. "The Isoscalar Giant Dipole Resonance: What's New?" International Workshop on Collective Excitations in Fermi and Bose Systems, Serra Negra, Sao Paulo, Brazil, September 14-17, 1998.

40. "The Isoscalar Giant Dipole Resonance: Where We Stand?" RIKEN Symposium and Workshop on Selected Topics in Nuclear Collective Excitations, Saitama, Japan, March 20-24, 1999.

41. "The Isoscalar Giant Dipole Resonance and Nuclear Incompressibility," National Seminar on Nuclear Physics, Bhubaneswar, India, July 26-29, 1999.

42. "Isoscalar Giant Dipole Resonances and the Compressibility of Nuclear Matter," XXVI Mazurian Lakes School of Physics, Krzyze, Poland, September 1-11, 1999.

43. "Nuclear Incompressibility and the Isoscalar Giant Dipole Resonance," International Symposium on Exotic Nuclear Structures, Debrecen, Hungary, May 15-20, 2000.

44. "The ISGDR: Most recent Results," and "Concluding Remarks," Notre Dame Mini-Workshop on Nuclear Incompressibility, Notre Dame, IN, January 30-31, 2001.

45. "Isoscalar Giant Dipole Resonance in ^{208}Pb and Nuclear Incompressibility," International Conference on Nuclear Physics (INPC2001), Berkeley, CA, July 30-August 3, 2001.

46. "The ISGDR: Open Questions," Mini-Workshop on Isoscalar Giant Dipole Resonance, University of Milan, Milan, Italy, March 16, 2002.

47. "Compressional-mode Giant Resonances from 400 MeV Alpha Scattering," ECT* Workshop on Nuclear Collective Motion at Extreme Conditions, Trento, Italy, March 18-28, 2002.

48. "Lifetime Measurements Using Large Arrays I," School-cum-Workshop on Computations in Investigations of High Spin States, Calcutta, India, September 28-October 2, 2002.

49. "Lifetime Measurements Using Large Arrays II," School-cum-Workshop on Computations in Investigations of High Spin States, Calcutta, India, September 28-October 2, 2002.

50. "Lifetime Measurements Using Large Arrays III," School-cum-Workshop on Computations in Investigations of High Spin States, Calcutta, India, September 28-October 2, 2002.

51. "The Isoscalar Giant Dipole Resonance: A Status Report," International Conference on Collective Motion in Nuclei under Extreme Conditions (COMEX1), Paris, France, June 10-13, 2003.

52. "Current world status of experimental research on the isoscalar giant dipole resonance," ECT* Workshop on Nuclear Response Under Extreme Conditions, Trento, Italy, October 20-24, 2003.

53. "Squeezing the Nucleus High Above Ripples and Tides," Fall Meeting of the Division of Nuclear Physics, American Physical Society, Tucson, AZ, October 29-November 1, 2003.

54. "Nuclear Incompressibility from the Isoscalar Giant Dipole Resonance," ACS Symposium on Nuclear Equation of State used in Astrophysics Models, Philadelphia, August 25-26, 2004.

55. "How Far Can You Squeeze a Star? Experimental Determination of Nuclear Incompressibility," 2005 Joint Annual Conference of the National Society of Black Physicists and the National Society of Hispanic Physicists, Orlando, FL, February 16-19, 2005.

56. "Triaxial Superdeformed Bands in ^{163}Tm," RIKEN RIBF International Workshop on Collective Motions in Unstable Nuclei – Experiments vs. Theories, Saitama, Japan, May 24-26, 2005.

57. "Triaxial Superdeformed Bands in ^{163}Tm," Indo-US Workshop on Physics with Energetic Heavy Ions and Rare Isotopes: Towards a Common Ground Between US and Indian Scientists, Chandigarh, India, October 16-19, 2005.

58. "Giant Monopole Resonances in the Sn isotopes: Why are the Tins so fluffy?" COMEX2, 2nd International Conference on Collective Motion in Nuclei under Extreme Conditions, Sankt Goar, Germany, June 20-23, 2006.

59. "Nuclear Incompressibility from the Compressional-mode Giant Resonances," In Heaven and on Earth 2006: The Nuclear Equation of State in Astrophysics, Montreal, Canada, July 5-7, 2006.

60. "Compressional-mode Giant Resonances and the Symmetry-term in Nuclear Incompressibility," APS-DNP Long Range Plan Town Meeting on Nuclear Astrophysics, Study of Nuclei, Chicago, IL, January 19-21, 2007.

61. "The Giant Monopole Resonance in the $^{112\text{-}124}$Sn Isotopes and the Symmetry Energy Term in Nuclear Incompressibility," International Nuclear Physics Conference (INPC2007), Tokyo, Japan, June 3-8, 2007.

62. "GMR and $K\tau$," ECT* Workshop on Exotic Modes of Excitation from Nuclear Structure to Astrophysics, Trento, Italy, October 8-12, 2007.

63. "TPC Applications to Compressional-mode Giant Resonances," TPC Workshop, National Superconducting Cyclotron Laboratory, East Lansing, MI, December 6-7, 2007.

64. "Nuclear Incompressibility and Symmetry Energy—Now and with Exotic Beams," TORIJIN-EFES-NSCL Joint Workshop on Future Prospects for Spectroscopy and Direct Reactions, East Lansing, MI, February 26-28, 2008.

65. "The symmetry term of nuclear incompressibility via the giant monopole resonance," Gordon Research Conference on Nuclear Chemistry, Colby-Sawyer College, New London, NH, June 15-20, 2008.

66. "Nuclear Incompressibility and Symmetry Energy from the Compressional Mode Giant Resonances," 5th ANL/MSU/JINA/INT FRIB Workshop on Bulk Nuclear Properties, East Lansing, MI, November 19-22, 2008.

67. "Nuclear Incompressibility and Symmetry Energy: A Status Report," DAE Symposium on Nuclear Physics, Roorkee, India, December 22-26, 2008.

68. "Nuclear incompressibility and the asymmetry term: an experimental review," COMEX3: The 3rd International Conference on Collective Motion in Nuclei under Extreme Conditions, Mackinac Island, MI, June 2-5, 2009.

69. "K_∞, K_τ and the "Fluffy" Tins: An Update," International Conference on Nuclear Structure and Related Topics (NSRT09), Dubna, Russia, June 30 – July 4, 2009.

70. "Exotic Quantal Rotation Nuclei: Chirality and tidal waves," School-cum-Workshop on Nuclear Yrast and Near Yrast Spectroscopy, Roorkee, India, October 26-30, 2009.

71. "Nuclear Physics Is Fun: A Conversation with Graduate Students," School-cum-Workshop on Nuclear Yrast and Near Yrast Spectroscopy, Roorkee, India, October 26-30, 2009.

72. "Concluding Remarks on the Feasibility of Measuring Superdeformed Bandheads," RCNP Mini Workshop on Hunting Super Deformed States in Light Nuclei, Osaka, Japan, December 17, 2009.

73. "GMR Measurements for EOS Investigations with the AT-TPC System," FRIB Equipment Workshop, East Lansing, MI, February 20-22, 2010.

74. "GMR in the Sn and Cd isotopes: $K_\infty K_\tau$, and the MEM Effect," ECT* Workshop on Reactions and Nucleon Properties in Rare Isotopes, Trento, Italy, April 6-10, 2010.

75. "Concluding Remarks," Summary Talk at the International Symposium on Nuclear Symmetry Energy, Wako, Japan, July 26-28, 2010.

76. "Nuclear Incompressibility and Symmetry Term from Compression-mode Giant Resonances," Zakopane Conference on Nuclear Physics: Extremes of the Nuclear Landscape, Zakopane, Poland, August 30-September 5, 2010.

77. "REU@ND: "Experience Over A Quarter Century," 2010 SACNAS National Conference, Anaheim, CA, September 30-October 3, 2010.

78. "The Argonne-Notre Dame Gamma Ray Facility: Recollections of a Wonderful Collaboration, Instrument, and Time," ATLAS 25th Anniversary Celebration, Argonne, IL, October 22-23, 2010.

79. "REU at Notre Dame: 'Experience' over a Quarter Century," APS April Meeting 2011, Anaheim, CA, April 30-May 3, 2011.

80. "The Atomic Nucleus and the Stars," Keynote Address, Annual GSU Research Conference, Governors State University, University Park, IL, June 10, 2011.

81. "Constraints on the EOS from Isoscalar Giant Modes," Gordon Research Conference on Nuclear Chemistry, New London, NH, June 12-17, 2011.

82. "The Asymmetry Term in Nuclear Incompressibility from Investigations of the Giant Monopole Resonance in the Sn and Cd Isotopes," YKIS2011: Symposium on Frontier Issues in Physics of Exotic Nuclei, Kyoto, Japan, October 11-15, 2011.

83. "Investigation of the Giant Monopole Resonances in the Sn and Cd Isotopes, the Asymmetry Term of Nuclear Incompressibility, and the "softness" of the Sn and Cd Nuclei," International Symposium on Physics of Unstable Nuclei 2011 (ISPUN11), Hanoi, Vietnam, November 23-28, 2011.

84. "Investigations of the Isoscalar Giant Monopole Resonance in the Sn and Cd isotopes and the "Softness" of the Sn and Cd Nuclei," DAE Symposium on Nuclear Physics, Visakhapatnam, India, December 26-30, 2011.

85. "Main Issues with Small-Angle Inelastic Scattering Measurements at RIKEN," Keynote talk, RIKEN Mini Workshop on Small-Angle Measurements, RIKEN, Japan, April 4, 2012.

86. "Laboratory Constraints on Symmetry Energy from Giant Resonance Measurements," Nuclear Astrophysics Town Meeting, Detroit, MI, October 8-10, 2012.

87. "Nuclear Incompressibility and the Incompressible (Sorry, Incomparable!) Harakeh," Symposium to Honor Muhsin Harakeh and Herbert Löhner, Groningen, The Netherlands, November 30, 2012.

88. "Exotic Quantal Rotation in Nuclei," Delhi University Visitors Day Symposium, Delhi, India, March 2, 2013.

89. "How (not) to make a bad presentation," Students Session, INGA National Workshop, Mumbai, India, March 10, 2013.

90. "The Asymmetry Term in Nuclear Incompressibility from the Giant Monopole Resonances," NuSYM13, the 3rd International Symposium on Nuclear Symmetry Energy, East Lansing, July 22-26, 2013.

91. "Role of Pure Sciences and Liberal Arts in a Modern Engineering Education," National Education Summit, Gandhinagar, India, January 10-11, 2014.

92. "Transverse Wobbling in Nuclei," 11th International Spring Seminar on Nuclear Physics, Ischia, Italy, May 12-16, 2014.

93. “REU@Notre Dame: A Template for REU Programs at ARUNA Laboratories,” 2014 ARUNA Workshop, Notre Dame, June 12-13, 2014.

94. “Giant Monopole Resonance Studies with HRS,” HRS Workshop, East Lansing, July 11, 2014.

95. “Outreach Efforts at ARUNA Laboratories,” Town Meeting on Education and Innovation, Michigan State University, East Lansing, August 6-8, 2014.

96. “Exotic Quantal Rotation in Nuclei I: Tidal Waves and Octupole Condensation,” DST-SERC School on Nuclear Structure at High Angular Momentum and Isospin, Mumbai, October 5-25, 2014.

97. “Exotic Quantal Rotation in Nuclei II: Transverse Wobbling,” DST-SERC School on Nuclear Structure at High Angular Momentum and Isospin, Mumbai, October 5-25, 2014.

98. “Nuclear Incompressibility and “Fluffiness” of Open-shell Nuclei,” Conference on Recent Trends in Nuclear Structure and its Implication in Astrophysics 2016, Puri, India, January 4-8, 2016.

99. “K_∞ and K_τ from the Giant Monopole Resonance,” NSKINS2016, Program on Neutron Skins of Nuclei, Mainz Institute for Theoretical Physics, Mainz, Germany, May 17-27, 2016.

100. “Exotic Vibrations in Nuclei,” SERC School on Modern Microscopic Approaches in Nuclear Physics, University of Kashmir, Srinagar, India, May 23, 2016.

101. “Exotic Quantal Rotation in Nuclei,” SERC School on Modern Microscopic Approaches in Nuclear Physics, University of Kashmir, Srinagar, India, May 24, 2016.

102. “Tidal Waves in Nuclei,” SERC School on Modern Microscopic Approaches in Nuclear Physics, University of Kashmir, Srinagar, India, May 25, 2016.

103. “Are there Nuclear Structure Effects on the Isoscalar Giant Monopole Resonance and the Nuclear Incompressibility?” Nuclear Structure 2016 Conference (NS2016), Knoxville, TN, July 24-29, 2016.

104. "Spinning Triaxial Nuclei Wobble: Sometimes Transverse, At Others Longitudinal,” SPIN '16, 22nd International Spin Symposium, Urbana-Champaign, IL, September 25-30, 2016.

105. “Transverse and Longitudinal Wobbling in Nuclei,” CUSTIPEN-IMP-PKU Workshop on Physics of Exotic Nuclei, Huizhou, China, December 12-15, 2016.

106. “Nuclear Incompressibility: How Far Can You Squeeze a Star,” Jingshi Nuclear Science and Technology Forum, Beijing Normal University, Beijing, China, December 16, 2016.

107. “Nuclear Structure Effects on Nuclear Incompressibility," International Conference on Nuclear Physics with Energetic Heavy Ion Beams, Chandigarh, India, March 15-18, 2017.

108. “High Spin States and Exotic Quantal Rotation in Nuclei I: Methods of Gamma-ray Spectroscopy,” 16th CNS International Summer School, University of Tokyo, Wako Campus, Japan, August 23, 2017.

109. “High Spin States and Exotic Quantal Rotation in Nuclei II: Magnetic Rotation, Chirality, and Tidal Waves in Nuclei,” 16th CNS International Summer School, University of Tokyo, Wako Campus, Japan, August 24, 2017.

110. “High Spin States and Exotic Quantal Rotation in Nuclei III: Wobbling and Octupole Condensation in Nuclei,” 16th CNS International Summer School, University of Tokyo, Wako Campus, Japan, August 25, 2017.

111. “Compression-mode Giant Resonances in Nuclei, Nuclear Incompressibility, and the Asymmetry Term,” 2nd China-US-RIB Meeting on Physics of Nuclei and Hadrons, Beijing, China, October 15-18, 2017.

112. “Nuclear Structure Effects on Nuclear Incompressibility,” 41st Symposium on Nuclear Physics, Cocoyoc, Mexico, January 8-11, 2018.

113. “Wobbling Motion in Nuclei,” Frontiers in Gamma Ray Spectroscopy, FIG18, Mumbai, India, March 12-14, 2018.

114. “The Helping Hand of the India Association of Notre Dame for Fulbright Fellows from South Asia,” Panel Discussion, Pedagogy Across Borders: An Interdisciplinary Symposium, Notre Dame, May 5, 2018.

115. “Nuclear Incompressibility: Does it depend on Nuclear Structure?” Jingshi Nuclear Science Forum, Beijing Normal University, Beijing, China, June 6, 2018.

116. “Experimental Nuclear Physics at Notre Dame,” Notre Dame-China Symposium on Exotic Nuclear Structures, Beijing, China, June 7-8, 2018.

117. “Chirality and Wobbling in the Same Nucleus,” Notre Dame-China Symposium on Exotic Nuclear Structures, Beijing, China, June 7-8, 2018.

118. “Experimental Probes for The Equation of State: The Isoscalar Giant Monopole Resonance, and Electric Dipole Polarizability,” Workshop on Experimental Studies of Neutron-Rich Matter, Detroit, June 28, 2018.

119. “Concluding Remarks,” Nuclear Structure 2018 Conference (NS2018), East Lansing, MI, August 5-10, 2018.

120. “How to Write a Scientific Paper Well?” Webinar, International Nuclear Theory Group, May 3, 2019.

121. "Wobblers and Chiral Wobblers: An Update," ND-PKU Mini Symposium on Nuclear Chirality and Wobbling, Peking University, Beijing, China, July 8, 2019.

122. "Chirality, Wobbling, and Chiral Wobblers," 64th DAE-BRNS Symposium on Nuclear Physics, Lucknow, India, December 23-27, 2019.

123. "Nuclear Incompressibility: How Collective Excitation Modes of a Nucleus Characterize Astrophysical Processes," The Third Area Symposium, Innovative Area Gravitational Wave Physics and Astronomy: Genesis, Konan University, Kobe, Japan, February 10-12, 2020.

124. "Nuclear incompressibility: Why are the "off-shell" nuclei fluffy?", Web Symposium on Contemporary Topics in Nuclear Physics, Mumbai, India, June 24-27,2020.

125. "GMR in Stable (and some Unstable) Nuclei: What's New?", GDR-RESANET: GMR Workshop, Orsay, France, November 25-26, 2020.

126. "Contemporary Perspectives on Nuclear Excitations," Workshop on INGA@VECC: the Milestones Achieved & the Miles Ahead, Kolkata, India, March 10-11, 2022.

127. "Nuclear Incompressibility: Does It Depend on Nuclear Structure?", 13th International Spring Seminar on Nuclear Physics, Sant'Angelo d'Ischia, Italy, May 15 – 20, 2022.

128. "Nuclear Incompressibility: Does It Depend on Nuclear Structure?", 56th Zakopane Conference on Nuclear Physics, Zakopane, Aug. 25 – Sept. 1, 2022.

129. "From a Fresh Graduate Student to Fulbright Senior Scholar: An Amazing Journey," Panel Discussion on Scholarly Exchange between US and India, Four Dot Four Conference, Kolkata, India, February 4, 2023.

130. "ISGMR Measurements with Rare Isotope Beams: Updates from NSCL and FRIB," RIKEN Workshop on the Giant Monopole Resonance and Related Topics, RIKEN, Wako-shi, Japan, May 18, 2023.

131. "Equation of State of Nuclear Matter I: Nuclear Incompressibility," A3F-CNS International Summer School, University of Tokyo, Wako Campus, Japan, August 8, 2023.

132. "Equation of State of Nuclear Matter II: The Asymmetry Term in Nuclear Incompressibility and Neutron Stars," A3F-CNS International Summer School, University of Tokyo, RIKEN Wako Campus, Japan, August 9, 2023.

133. "Equation of State of Nuclear Matter III: Does Nuclear Incompressibility depend on Nuclear Structure," A3F-CNS International Summer School, University of Tokyo, RIKEN Wako Campus, Japan, August 10, 2023.

INVITED SEMINARS/COLLOQUIA:

1. "Collective Properties of Odd-Mass Cesium Nuclei," Texas A&M University, March 28, 1978.

2. "Collective Properties of the Odd-Mass Cs Nuclei," Schlumberger-Doll Research Center, Ridgefield, CT, June 10, 1979.

3. "Investigations on the Giant Monopole Resonance via Inelastic α-Scattering," Bhabha Atomic Research Center, Trombay, India, March 11, 1980.

4. "Collective Properties of the Z > 50 Transitional Nuclei," Tata Institute of Fundamental Research, Bombay, India, March 12, 1980.

5. "Methods of In-Beam γ-ray Spectroscopy and Nuclear Structure Physics," Government Postgraduate College, Ajmer, India, March 31, 1980.

6. "Giant Monopole Resonance Studies via Inelastic α-Scattering," Variable Energy Cyclotron Laboratory, Calcutta, India, April 8, 1980.

7. "Investigations on the Giant Monopole Resonance using Inelastic α-Scattering," Los Alamos Scientific Laboratory, August 7, 1980.

8. "The Giant Monopole Resonance: What's New?" Brookhaven National Laboratory, November 10, 1980.

9. "The Giant Monopole Resonance: What's New?" M.P.I., Heidelberg, West Germany, June 16, 1981.

10. "The Giant Monopole Resonance: What's New?" Univ. of Notre Dame, September 10, 1981.

11. "Collective Properties of the Z > 50 Transitional Nuclei," Bell Telephone Laboratories, September 14, 1981.

12. "Nuclear Incompressibility," Manchester College, North Manchester, IN, May 1, 1985.

13. "The Notre Dame/Argonne BGO Detector System," Bhabha Atomic Research Center, Trombay, India, June, 1985.

14. "Physics with Large Detector Arrays," Bhabha Atomic Research Center, Trombay, India, June, 1985.

15. "Giant Resonances Using Heavy-Ion Inelastic Scattering," Bhabha Atomic Research Center, Trombay, India, June, 1985.

16. "The Notre Dame/Argonne BGO Detector System," Tata Institute of Fundamental Research, Bombay, India, July 2, 1985.

17. “Giant Resonances Using Inelastic Scattering of Heavy Ions,” Indian Institute of Technology, Kanpur, India, July 8, 1985.

18. “The Notre Dame/Argonne BGO Detector System for γ ray Spectroscopy,” Indian Institute of Technology, Kanpur, India, July 9, 1985.

19. “The Notre Dame/Argonne BGO Detector System,” Texas A&M University, October 25, 1985.

20. “Concepts in the Design of a BGO Detector Array,” Nuclear Sciences Centre, New Delhi, India, December 18, 1986.

21. “The Notre Dame/Argonne BGO Detector System,” Panjab University, Chandigarh, India, December 23, 1986.

22. “Recent Results from the Notre Dame/Argonne BGO Detector Array,” Bhabha Atomic Research Centre, Bombay, India, January 15, 1987.

23. “Nuclear Structure Studies Near and Above the Yrast Line,” National Superconducting Cyclotron Laboratory, East Lansing, MI, July 8, 1987.

24. “Giant Resonance Studies Using Heavy Ions,” Chalk River Nuclear Laboratories, Chalk River, Canada, June 9, 1988.

25. “When Nuclei Really Get Dizzy,” Vrije Universiteit, Amsterdam, The Netherlands, November 22, 1988.

26. “Giant Resonance Studies Using Heavy Ion Beams,” Kernphysik Versneller Institut, Groningen, The Netherlands, November 29, 1988.

27. “Nuclear Physics at Notre Dame,” Lohia College, Churu, India, January 2, 1989.

28. “When Nuclei Really Get Dizzy,” Universität Köln, Köln, West Germany, May 9, 1989.

29. “When Nuclei Really Get Dizzy,” KFA, Jülich, West Germany, May 11, 1989.

30. “Giant Resonance Studies with Medium-Energy Heavy Ions,” IPN, Orsay, France, June 14, 1989.

31. “Giant Resonances with Heavy Ions,” GANIL, Caen, France, June 15, 1989.

32. “When Nuclei Really Get Dizzy,” Warsaw University, Warsaw, July 6, 1989.

33. “Giant Resonances with Medium-Energy Heavy Ions,” Universität Tübingen, Tübingen, West Germany, July 12, 1989.

34. “Electromagnetic Excitations in Peripheral Heavy Ion Collisions,” GSI, Darmstadt, West Germany, July 14, 1989.

35. “Giant Resonance Studies Using Medium-Energy Heavy Ions,” NIKHEF-K, Amsterdam, The Netherlands, July 27, 1989.

36. “Discovery of Superdeformation in Nuclei,” Drexel University, Philadelphia, PA, February 13, 1990.

37. “Superdeformation in Nuclei,” Arts and Science Committee of the Benjamin Franklin Institute, Philadelphia, PA, February 14, 1990.

38. “Superdeformation in Nuclei,” University of Michigan, Ann Arbor, March 22, 1990.

39. “Superdeformation in the A=190 Region,” Tata Institute of Fundamental Research, Bombay, India, December 7, 1990.

40. “Multitude of Shapes in ^{191}Hg,” Bhabha Atomic Research Center, Bombay, India, December 14, 1990.

41. “Superdeformation in Nuclei,” Nuclear Science Center, New Delhi, India, December 21, 1990.

42. “Superdeformation in the A-190 Region: What’s New?” Accelerator Laboratory, University of Helsinki, Finland, March 15, 1991.

43. “Spectroscopy in a New Region of Superdeformation,” Jyväskylä University, Finland, March 20, 1991.

44. “Spectroscopy in a New Region of Superdeformation,” Institut für Kernphysik, Universität zu Köln, Germany, March 22, 1991.

45. “γ-ray Spectroscopic studies with the Argonne-Notre Dame Gamma-ray Facility,” Nuclear Science Center, New Delhi, India, January 9, 1992.

46. “From Single-particle to Superdeformed: A Multitude of Shapes in ^{191}Hg,” Cyclotron Institute, Texas A&M University, College Station, TX, May 5, 1992.

47. “From Single-Particle to Superdeformed: A Multitude of Shapes in ^{191}Hg and ^{193}Tl,” State University of New York, Stony Brook, NY, August 19, 1992.

48. “Giant Resonance Studies with Medium-Energy Heavy Ions,” Research Center for Nuclear Physics, Osaka, Japan, October 21, 1992.

49. “From Single-particle to Superdeformed: A Multitude of Shapes in Hg-Tl Nuclei,” Kyoto University, Kyoto, Japan, October 22, 1992.

50. “Gamma-Ray Arrays” Where Do We Go from Here?” Nuclear Science Centre, New Delhi, India, December 19, 1992.

51. “Lifetime Measurements Using a Plunger with Gamma-ray Detector Arrays,” Nuclear Science Centre, New Delhi, India, January 7, 1994.

52. “Lifetime Measurements and Shape Coexistence in Nuclei,” Panjab University, Chandigarh, India, January 18, 1994.

53. “Lifetime Measurements and Shape Coexistence in Nuclei,” Lawrence Livermore National Laboratory, Livermore, CA, March 1, 1994.

54. “Lifetime Measurements and Shape Coexistence in Nuclei,” Argonne National Laboratory, Argonne, IL, March 28, 1994.

55. “Lifetime Measurements and Shape Coexistence in Nuclei,” Vanderbilt University, Nashville, TN, April 1, 1994.

56. “Lifetime Measurements and Shape Coexistence in Nuclei,” University of Tennessee, Knoxville, TN, May 11, 1994.

57. “Evidence for the Isoscalar Giant Dipole Resonance in Inelastic Alpha Scattering at and near 0°,” Russian Research Center-Kurchatov Institute, Moscow, Russia, July 11, 1994.

58. “Evidence for the Isoscalar Giant Dipole Resonance in Inelastic Alpha Scattering at and near 0°,” Soltan Institute of Nuclear Studies, Swierk, Poland, July 12, 1994.

59. “There is More Than One Giant Dipole Resonance: Evidence for the ISOSCALAR Giant Dipole Mode,” GSI, Darmstadt, Germany, January 26, 1995.

60. “There is More Than One Giant Dipole Resonance: Evidence for the ISOSCALAR Giant Dipole Mode,” Institut für Kernphysik, Universität zu Köln, Köln, Germany, January 27, 1995.

61. “Lifetime Measurements and the Shape Coexistence Phenomenon,” Tsinghua University, Beijing, China, August 18, 1995.

62. “There is more than one Giant Dipole Resonance: Evidence for the ISOSCALAR Giant Dipole Mode,” Centre de Recherches Nucléaires, Strasbourg, France, September 13, 1996.

63. “Incremental Alignment: A New Empirical Tool in Superdeformation Studies,” A.I. Ioffe Institute of the Russian Academy of Sciences, St. Petersburg, Russia, September 17, 1997.

64. “Description of Superdeformed Bands in Terms of Incremental Alignments and Predictions of New Superdeformed Bands in the A=150 Region,” University of Helsinki, Helsinki, Finland, September 19, 1997.

65. “The Isoscalar Giant Dipole Resonance,” Institut für Kernphysik, Münster University, Münster, Germany, September 24, 1997.

66. “Description of Superdeformed Bands in terms of Incremental Alignments,” Nuclear Science Center, New Delhi, India, January 7, 1998.

67. “The Isoscalar Giant Dipole Resonance and Nuclear Incompressibility,” Inter University Consortium for DAE Facilities, Calcutta, India, January 9, 1998.

68. “The Isoscalar Giant Dipole Resonance and Nuclear Incompressibility,” Argonne National Laboratory, Argonne, IL, January 26, 1998.

69. “The Isoscalar Giant Dipole Resonance,” National Superconducting Cyclotron Laboratory, East Lansing, MI, October 21, 1998.

70. “The Isoscalar Giant Dipole Resonance and Nuclear Incompressibility,” Bhabha Atomic Research Centre, Bombay, India, January 8, 1999.

71. “Clovers, Clusters and Hybrids: Gamma Ray Spectroscopy in the Near Future,” Nuclear Science Center, New Delhi, India, February 6, 1999.

72. “The Isoscalar Giant Dipole Resonance and Nuclear Incompressibility,” Florida State University, Tallahassee, FL, March 12, 1999.

73. “Incremental Alignments: A New Tool in the Study of Superdeformed Nuclei,” Japan Atomic Energy Research Institute, Ibaraki, Japan, March 19, 1999.

74. “Lifetime Measurements Using Doppler Shift Methods,” University of Tennessee, Knoxville, TN, June 2, 1999.

75. “The Isoscalar Giant Dipole Resonance and Nuclear Incompressibility,” Oak Ridge National Laboratory, Oak Ridge, TN, June 3, 1999.

76. “Nuclear Incompressibility”, Inter-University Consortium for DAE Facilities, Calcutta, India, August 6, 1999.

77. “The Isoscalar Giant Dipole Resonance and its Role in the Nuclear Compressibility”, Saha Institute for Nuclear Physics, Calcutta, India, August 6, 1999.

78. “Incremental Alignments in Superdeformed Nuclei,” RIKEN, Saitama, Japan, March 24, 2000.

79. “Lifetime Measurements Using the RDM Technique: From Small Arrays to Gammasphere,” Japan Atomic Energy Research Institute, Tokai, Japan, March 25, 2000.

80. “Lifetime Measurements with Small and Large Detector Arrays,” IUCDAEF-Calcutta Centre, Calcutta, India, June 27, 2000.

81. “Lifetime Measurements in Exotic Nuclei with Evaporation-Residue Tagging,” Nuclear Science Centre, New Delhi, India, July 3, 2000.

82. “Giant Resonances and Nuclear Incompressibility,” Ball State University, Muncie, IN, February 7, 2002.

83. “Compressional-mode Giant Resonances and Nuclear Incompressibility,” RIKEN, Saitama, Japan, February 22, 2002.

84. “The Low-energy L=1 Strength: Toroidal, Squeezing or Vortex?” at the Joint Institute for Nuclear Research, Dubna, Russia, August 14, 2002.

85. “Compressional-mode Giant Resonances and Nuclear Incompressibility,” Argonne National Laboratory, Argonne, IL, November 18, 2002.

86. “Exotic quantal rotation in nuclei,” Bhabha Atomic Research Center, Mumbai, India, October 7, 2003.

87. “Nuclear Incompressibility,” Mumbai University, Mumbai, India, October 8, 2003.

88. “Exotic quantal rotation in nuclei,” Tata Institute of Fundamental Research, Mumbai, India, October 15, 2003.

89. “Squeezing the nucleus to get the nuclear incompressibility,” Bhabha Atomic Research Center, Mumbai, India, October 17, 2003.

90. “Nuclear Incompressibility from the Squeezing Mode,” Saha Institute of Nuclear Physics, Kolkata, India, December 19, 2003.

91. “Exotic Quantal Rotation in Nuclei,” Inter University Center for DAE Facilities, Kolkata, India, December 22, 2003.

92. “Squeezing the Nucleus to Get the Nuclear Incompressibility,” Institute of Physics, Bhubaneswar, India, January 7, 2004.

93. “Exotic Quantal Rotation in Nuclei,” Nuclear Science Centre, New Delhi, India, February 26, 2004.

94. “Squeezing the Nucleus to get the Nuclear Incompressibility,” Triangle Universities Nuclear Laboratory, Duke University, Durham, NC, April 29, 2004.

95. “Nuclear Incompressibility and the Compressional-Mode Giant Resonances,” Washington University, St. Louis, MO, August 10, 2004.

96. “The Nuclear Equation of State,” Inter-University Center, Kolkata, India, October 20, 2004.

97. “How far can you squeeze a star? Experimental Determination of Nuclear Incompressibility,” Physics and Astronomy Colloquium, San Diego State University, November 19, 2004.

98. “Experimental Determination of Nuclear Incompressibility,” Physics Department Colloquium, Panjab University, Chandigarh, India, January 28, 2005.

99. “How Far Can You Squeeze a Star?” Physics Department Colloquium, Clark Atlanta University, Atlanta, GA, February 11, 2005.

100. “Squeezing the Nucleus to Get Nuclear Incompressibility,” TRIUMF, Vancouver, Canada, May 12, 2005.

101. “How Far Can You Squeeze a Star? Experimental Determination of Nuclear Incompressibility,” Hampton, University, Hampton, VA, February 2, 2006.

102. "How Far Can You Squeeze a Star? Experimental Determination of Nuclear Incompressibility," University of Richmond, Richmond, VA, February 3, 2006.

103. "Nuclear Incompressibility from the Compressional-mode Giant Resonances," University of Cologne, Germany, June 19, 2006.

104. "Giant Resonances and Nuclear Incompressibility: An Update," Aizu University, Aizu, Japan, August 11, 2006.

105. "TSD Bands in ^{163}Tm: Wobbling vs. Particle Excitations," Inter University Accelerator Center, New Delhi, December 22, 2006.

106. "TSD Bands in ^{163}Tm: Wobbling vs. Particle Excitations," Bhabha Atomic Research Center, Mumbai, January 9, 2007.

107. "Nuclear Incompressibility: How Far Can You Squeeze a Star?" Colloquium, Florida International University, Miami, FL, January 26, 2007.

108. "Nuclear Incompressibility, Symmetry Energy, and Neutron Stars," Tata Institute of Fundamental Research, Mumbai, India, February 7, 2007.

109. "Nuclear Incompressibility, Symmetry Energy and Neutron Stars," Nuclear Physics Colloquium, Research Center for Nuclear Physics, Osaka University, Osaka, Japan, March 9, 2007.

110. "Exotic Quantal Rotation in Nuclei: An experimental Report," Yukawa Institute for Theoretical Physics, Kyoto University, Kyoto, Japan, July 20, 2007.

111. "Exotic Quantal Rotation: Chirality and Octupole Condensation," Physics Group Colloquium, Bhabha Atomic Research Center, Trombay, India, January 11, 2008.

112. "Nuclear Incompressibility and the Stars," Dungar College, Bikaner, India, January 17, 2008.

113. "Exotic Quantal Rotation in Nuclei," Colloquium, Inter University Accelerator Center, New Delhi, India, January 18, 2008.

114. "Nuclear Incompressibility: How far can you squeeze a star," Colloquium, Florida A&M University, February 14, 2008.

115. "Nuclear Incompressibility, Symmetry Energy, and Neutron Stars," JPS Seminar, Physics Department, Osaka University, Osaka, Japan, May 28, 2008.

116. "Exotic Quantal Rotation: Wobbling, Chirality and Octupole Condensations," Colloquium, UGC-DAE Consortium for Science Research, Kolkata, India, July 21, 2008.

117. "Nuclear Incompressibility: How Far Can You Squeeze a Star?" Hampton University, Hampton, VA, February 6, 2009.

118. "Exotic Quantal Rotation in Nuclei," Osaka University, Osaka, Japan, May 27, 2009.

119. "Nuclear Incompressibility, Symmetry Energy, and the MEM Effect from measurements of compression-mode giant resonances," Michigan State University, East Lansing, MI, September 28, 2009.

120. "Nuclear Incompressibility: How Far Can You Squeeze a Star?" St. Mary's University of Texas, San Antonio, TX, February 26, 2010.

121. "Physics Is Fun: A Conversation about Research in Physics," University of Dallas, TX, March 1, 2010.

122. "Nuclear Incompressibility, Symmetry Energy, and Neutron Stars," Institute for Nuclear Physics and Nuclear Engineering (IFIN-HH), Bucharest, Romania, June 28, 2010.

123. "Nuclear Incompressibility, Symmetry Energy, and Neutron Stars," Colloquium, Physics Department, Tohoku University, Sendai, Japan, July 30, 2010.

124. "Nuclear Incompressibility, Symmetry Energy, and Superfluidity," Institut de Physique Nucleaire (IPN), Orsay, France, September 6, 2010.

125. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," Texas A&M University, Commerce, TX, December 9, 2010.

126. "REU@Notre Dame: 'Experience' over a Quarter Century," Physics and Astronomy Colloquium, Texas A&M University, Commerce, TX, December 9, 2010.

127. "Nuclear Incompressibility, the Asymmetry Term, and Neutron Stars," Inter University Accelerator Center, New Delhi, India, March 14, 2011.

128. "Nuclear Incompressibility and the Asymmetry Term from Measurements of the Giant Monopole Resonance," Ernest O. Lawrence Berkeley National Laboratory, Berkeley, CA, July 18, 2011.

129. "Nuclear Incompressibility and the Asymmetry Term from Measurements of the Giant Monopole Resonance," Institut fur Kernphysik, Universitat zu Köln, Köln, Germany, September 30, 2011.

130. "Nuclear Incompressibility and the Asymmetry Term from Measurements of the Giant Monopole Resonance," Stony Brook University, Stony Brook, NY, October 21, 2011.

131. Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," Universität Wein, Vienna, Austria, November 3, 2011.

132. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," University of Surrey, Guildford, UK, November 7, 2011.

133. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," York University of York, York, November 9, 2011.

134. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," University of Manchester, Manchester, November 10, 2011.

135. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," University of Birmingham, Birmingham, November 11, 2011.

136. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," ISOLDE, CERN, Geneva, November 16, 2011.

137. "Nuclear Incompressibility, Symmetry Energy, and Neutron Stars," Hanoi National University for Education, Hanoi, Vietnam, November 28, 2011.

138. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," Institute for Particle and Nuclear Physics, Charles University, Prague, Czech Republic, December 5, 2011.

139. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," NuStar Seminar, GSI, Darmstadt, Germany, December 7, 2011.

140. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," University of Catania, Catania, Italy, December 9, 2011.

141. "From the Atomic Nucleus to the Stars," Institute Lecture, Indian Institute of Technology, Gandhinagar, India, January 11, 2012.

142. "From the Atomic Nucleus to the Stars," Colloquium, UGC-DAE Consortium for Scientific Research, Kolkata, India, January 24, 2012.

143. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," Saha Institute of Nuclear Physics, Kolkata, India, January 25, 2012.

144. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," Institute Colloquium, Tata Institute of Fundamental Research, Mumbai, India, February 15, 2012.

145. "Nuclear Incompressibility: How Far Can You Squeeze the Stars?" Colloquium, Delhi University, Delhi, India, February 22, 2012.

146. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," Kyushu University, Fukuoka, Japan, March 21, 2012.

147. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," RIKEN, Saitama, Japan, April 4, 2012.

148. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," China Institute of Atomic Energy, Beijing, China, April 20, 2012.

149. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," Tsinghua University, Beijing, China, April 24, 2012.

150. "Exotic Quantal Rotation I: Chirality and Wobbling," Seminar Series, State Key Laboratory of Nuclear Physics and Technology, Peking University, Beijing, China, April 25, 2012.

151. "Exotic Quantal Rotation II: Octupole Condensation and Tidal Waves," Seminar Series, State Key Laboratory of Nuclear Physics and Technology, Peking University, Beijing, China, April 26, 2012.

152. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," Institute of Nuclear and Particle Physics, Astronomy and Cosmology, Shanghai Jiaotong University, Shanghai, China, April 27, 2012.

153. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," Shanghai Institute of Applied Physics (SINAP), Chinese Academy of Sciences, Shanghai, China, April 28, 2012.

154. "Nuclear Incompressibility: How Far Can You Squeeze a Star," Joint Seminar, Astronomy and Modern Physics, University of Science and Technology of China, Hefei, China, May 3, 2012.

155. "Nuclear Incompressibility: How Far Can You Squeeze a Star," Seminar Series, State Key Laboratory of Nuclear Physics and Technology, Peking University, Beijing, China, May 9, 2012.

156. "Exotic Quantal Rotation in Nuclei," Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou, China, May 10, 2012.

157. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou, China, May 11, 2012.

158. "Nuclear Incompressibility: How Far Can You Squeeze a Star," Colloquium, Xi'an Jiaotong University, Xi'an, China, May 14, 2012.

159. "The Asymmetry Term in Nuclear Incompressibility and the MEM Effect," Seminar Series, State Key Laboratory of Nuclear Physics and Technology, Peking University, Beijing, China, May 16, 2012.

160. "Exotic Quantal Rotation in Nuclei," Inter University Accelerator Center, New Delhi, India, October 17, 2012.

161. "Nuclear Incompressibility, the Asymmetry Term, and the MEM Effect," Physics Group Colloquium, Bhabha Atomic Research Center, Mumbai, March 12, 2013.

162. "Nuclear Incompressibility, the Asymmetry Term and the MEM Effect," Washington University in St. Louis, St. Louis, MO, March 29, 2013.

163. "Nuclear Incompressibility, the Asymmetry Term and the MEM Effect," Ohio University, Athens, OH, April 1, 2013.

164. “Physics Has a Very Wide Reach: Career Opportunities for Physics Majors,” REU Seminar, Texas A&M University, Commerce, TX, August 5, 2013.

165. “REU@ND: ‘Experience’ over 27 Years,” School of Science, Xi'an Jiaotong University, Xi'an, China, October 22, 2013.

166. “Physics at Notre Dame: Wide Ranging opportunities, Wonderful Time,” School of Science, Xi'an Jiaotong University, Xi'an, China, October 23, 2013.

167. “Transverse Wobbling and Tidal Waves/d-boson Condensation in Nuclei,” School of Physics, Peking University, Beijing, China, October 25, 2013.

168. “Physics at Notre Dame: Wide Ranging opportunities, Wonderful Time,” Physics Department, Peking University, Beijing, China, October 25, 2013.

169. “Nuclear Incompressibility: How Far Can You Squeeze a Star,” Inter University Accelerator Center, New Delhi, January 3, 2014.

170. “Transverse Wobbling and Tidal Waves in Nuclei,” Colloquium, UGC-DAE Consortium for Scientific Research, Kolkata, India, January 6, 2014.

171. “Transverse Wobbling and Tidal Waves in Nuclei,” Tata Institute of Fundamental Research, Mumbai, India, January 9, 2014.

172. “Symmetry Energy from the Giant Resonances,” Tata Institute of Fundamental Research, Mumbai, India, January 13, 2014.

173. “Nuclear Incompressibility and the Asymmetry Term,” Physics Division Seminar, Oak Ridge National Laboratory, Oak Ridge, TN, May 1, 2014.

174. “Transverse Wobbling in Nuclei,” Colloquium, Inter university Accelerator Center, New Delhi, India, December 13, 2014.

175. “Transverse Wobbling in Nuclei,” State Key Laboratory for Nuclear Physics and Technology, Peking University, Beijing, China, March 11, 2015.

176. “Physics at Notre Dame: Wide Ranging opportunities, Wonderful Time,” Undergraduate Seminar, Peking University, Beijing, China, March 11, 2015.

177. “Nuclear Incompressibility and Symmetry Energy,” Colloquium, Beijing Normal University, Beijing, China, March 12, 2015.

178. “Nuclear Incompressibility: How Far Can You Squeeze A Star?” Colloquium, Tsinghua University, Beijing, China, March 12, 2015.

179. “Nuclear Incompressibility and Symmetry Energy: What Is New?” Tokyo Institute of Technology, Tokyo, Japan, July 21, 2015.

180. “Exotic Quantal Rotation in Nuclei,” CNS/RIBF Seminar, RIKEN, Japan, July 22, 2015.

181. "GAMMA: A journey from Ge(Li)s to Gretina," UGC-DAE Consortium for Science Research, Kolkata Center, Kolkata, India, August 7, 2015.

182. "Physics is Fun, Research is Even More," Series of lectures to undergraduate students, Indian Institute of Technology, Gandhinagar, India, August 10-12, 2015.

183. "The Nuclear Incompressibility: How Far Can One Squeeze a Nucleus," Physics Colloquium, Indian Institute of Technology, Gandhinagar, India, August 12, 2015.

184. "Making of Classics; Mughal-e-Azam and Sholay," Institute Public Lecture, Indian Institute of Technology, Gandhinagar, India, August 18, 2015.

185. "Nuclear Incompressibility, the Asymmetry Term, and the Fluffiness of the Off-Shell Nuclei," Institute Colloquium, KVI-CART, Groningen, The Netherlands, September 25, 2015.

186. "Nuclear Incompressibility, the Asymmetry Term, and the Fluffiness of the Off-Shell Nuclei," IPN-Orsay, Orsay, France, October 1, 2015.

187. "Nuclear Incompressibility, the Asymmetry Term, and the Fluffiness of the Off-Shell Nuclei," University of York, York, UK, October 30, 2015.

188. "Nuclear Incompressibility, the Asymmetry Term, and the Fluffiness of the Off-Shell Nuclei," University of Birmingham, Birmingham, UK, November 18, 2015.

189. "Exotic Quantal Rotation in Nuclei," Liverpool-Daresbury Joint Seminar, University of Liverpool, Liverpool, UK, December 2, 2015.

190. "Exotic Quantal Rotation in Nuclei," University of Surrey, Guildford, UK, December 4, 2015.

191. "Nuclear Incompressibility and Fluffiness of Open-Shell Nuclei," State Key Laboratory for Nuclear Physics and Technology, Peking University, Beijing, China, March 8, 2016.

192. "Nuclear Incompressibility, the Asymmetry Term, and Fluffiness of Open-Shell Nuclei," Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing, China, March 10, 2016.

193. "Exotic Quantal Rotation in Nuclei," Tsinghua University, Beijing, China, March 11, 2016.

194. "Nuclear Physics is Fundamental, Far-reaching, and Fun," Inter University Accelerator Center, New Delhi, India, May 27, 2016.

195. "Nuclear Incompressibility, the Asymmetry Term, and Fluffiness of Open-Shell Nuclei," Cyclotron Institute, Texas A&M University, College Station, TX, July 21, 2016.

196. "Physics Is Fun: Wide-ranging Opportunities, Wonderful Time," REU Distinguished Lecture, Texas A&M University, Commerce, TX, July 22, 2016.

197. “Nuclear Incompressibility and the Asymmetry Term,” Texas A&M University, Commerce, TX, July 22, 2016.

198. “Physics at Notre Dame: Wide-ranging Opportunities, Wonderful Time,” Peking University, Beijing, China, December 10, 2016.

199. “Wobbling and Other Exotic Quantal Rotation in Atomic Nuclei,” Panjab University, Chandigarh, India, December 20, 2016.

200. “Transverse and Longitudinal Wobbling in Atomic Nuclei,” State Key Laboratory for Nuclear Physics and Technology, Peking University, Beijing, China, December 25, 2016.

201. “From Ge(Li) to Gretina: Gamma-ray Spectroscopy Over 40 years,” Tata Institute of Fundamental Research, Mumbai, India, January 6, 2017.

202. “Nuclear Structure Effects on the Isoscalar Giant Monopole Resonance and Nuclear Incompressibility,” Tata Institute of Fundamental Research, Mumbai, India, January 11, 2017.

203. “Exotic Quantal Rotation in Nuclei,” Physics Group Colloquium, Bhabha Atomic Research Center, Mumbai, India, January 20, 2017.

204. “REU@ND: ‘Experience’ Over 30 Years,” Xi’an Jiaotong University, Xi’an, China, April 13, 2017.

205. “Physics at Notre Dame: Wide-ranging Opportunities, Wonderful Time,” Xi’an Jiaotong University, Xi’an, China, April 14, 2017.

206. “Nuclear Structure Effects on the Isoscalar Giant Monopole Resonance and Nuclear Incompressibility,” State Key Laboratory for Nuclear Physics and Technology, Peking University, Beijing, China, April 17, 2017.

207. “Physics Research at Notre Dame: Wide-ranging Opportunities, Wonderful Time, and (mostly) Fun,” Xi'an Jiaotong University, Xi'an, China, October 12, 2017.

208. “Compression-mode Giant Resonances in Nuclei,” State Key Laboratory for Nuclear Physics and Technology, Peking University, Beijing, China, October 13, 2017.

209. “Nuclear Incompressibility: How Far Can You Squeeze A Star,” Institute Colloquium, UGC-DAE CSR, Kolkata Center, Kolkata, India, November 13, 2017.

210. “Nuclear Structure Effects on the Isoscalar Giant Monopole Resonance and Nuclear Incompressibility,” Inter University Accelerator Center, New Delhi, India, November 17, 2017.

211. “Reaching Towards Stars Using Ion Accelerators,” Tata Institute of Fundamental Research, Mumbai, India, November 24, 2017.

212. "New Global Outlook at the University of Notre Dame: Perspectives of a Peripatetic Physicist," School of Liberal Arts and Humanities, Jindal Global University, Rai, India, March 8, 2018.

213. "The Atomic Nucleus and the Stars," University Colloquium, The Maharaja Sayajirao University of Baroda, Vadodara, India, March 16, 2018.

214. "Nuclear Incompressibility: Does It Depend on Nuclear Structure?", Joint FRIB/NSCL Nuclear Seminar, Michigan State University, East Lansing, MI, April 4, 2018.

215. "Exotic Quantal Rotation in Nuclei: Tidal Waves, Wobbling and Chiral Wobblers," Shandong University, Weihai, China, June 4, 2018.

216. "Chirality, Wobbling, and Chiral Wobblers," State Key Laboratory for Nuclear Physics and Technology, Peking University, Beijing, China, June 6, 2018.

217. "The Compression-Mode Giant Resonances and Nuclear Incompressibility: What's New?", State Key Laboratory for Nuclear Physics and Technology, Peking University, Beijing, China, June 9, 2018.

218. "Chirality, Wobbling, and Chiral Wobblers," Center for Energy Research, Hungarian Academy of Sciences, Budapest, September 14, 2018.

219. "Nuclear Incompressibility: Does It Depend on Nuclear Structure?", ATOMKI, Debrecen, Hungary, September 17, 2018.

220. "Chirality, Wobbling, and Chiral Wobblers," The University of Manchester, Manchester, UK, September 19, 2018.

221. "Chirality, Wobbling, and Chiral Wobblers," KTH, Stockholm, Sweden, October 5, 2018.

222. "Nuclear Incompressibility: Does It Depend on Nuclear Structure?", University of Surrey, Guildford, UK, October 10, 2018.

223. "Chirality, Wobbling, and Chiral Wobblers," York University, York, UK, October 26, 2018.

224. "Nuclear Incompressibility: Does it Depend on Nuclear Structure?", Institut de PhysiqueNucléaire, Orsay, France, November 16, 2018.

225. "Nuclear Incompressibility: How Collective Excitation Modes Characterize Astrophysical Processes," CEA Centre de Saclay, Saclay, France, November 26, 2018.

226. "Chirality, Wobbling, and Chiral Wobblers," University of Liverpool, Liverpool, UK, November 28, 2018.

227. "Chirality, Wobbling, and Chiral Wobblers," University of Padua, Padua, Italy, December 3, 2018.

228. “Exotic Quantal Rotation in Nuclei: Tidal waves and Chirality,” Tata Institute of Fundamental Research, Mumbai, India, December 18, 2018.

229. “Exotic Quantal Rotation in Nuclei: Wobbling Motion,” Tata Institute of Fundamental Research, Mumbai, India, December 20, 2018.

230. “Nuclear Incompressibility: How Collective Excitation Modes Characterize Astrophysical Processes,” Institute Colloquium, Saha Institute of Nuclear Physics, Kolkata, India, December 24, 2018.

231. “Conversations: Nuclear Incompressibility and the Giant Monopole Resonance,” Tata Institute of Fundamental Research, Mumbai, India, January 4, 2019.

232. “Conversations: Nuclear Incompressibility and the "Fluffiness" of Open-shell Nuclei,” Tata Institute ofFundamental Research, Mumbai, India, January 9, 2019.

233. “From Atomic Nuclei to Stars, and Nuclear Incompressibility,” BITS-Pilani, Goa, January 12, 2019.

234. “Gamma: A Journey from Ge(Li) to Gretina,” UGC-DAE Consortium for Scientific Research, Indore, India, January 28, 2019.

235. “Nuclear Incompressibility: How Collective Excitation Modes of a Nucleus Characterize Astrophysical Processes”, Physics and Astronomy Colloquium, San Diego State University, San Diego, February 8, 2019.

236. “How to Write a Scientific Paper Well?”, Peking University, Beijing, China, March 9, 2019.

237. “Wobbling and Chirality in Nuclei: Latest Results from Gammasphere,” Peking University, Beijing, China, March 11, 2019.

238. “Come to Notre Dame for Doing Physics: Graduate and REU Programs,” Xi’an Jiaotong University, Xi’an, China, March 12, 2019.

239. “Nuclear Incompressibility: How Collective Excitation Modes of a Nucleus Characterize Astrophysical Processes,” Xi’an Jiaotong University, Xi’an, China, March 13, 2019.

240. “Nuclear Incompressibility: How Collective Excitation Modes of a Nucleus Characterize Astrophysical Processes," Texas A & M University, Commerce, TX, April 4, 2019.

241. “How to Write a Scientific Paper Well?”, UGC-DAE Consortium for Scientific Research, Kolkata Centre, Kolkata, India, April 24, 2019.

242. “Chirality, Wobbling, and Chiral Wobblers,” Inter University Accelerator Center, New Delhi, India, April 25, 2019.

243. “Nuclear Incompressibility: How Collective Excitation Modes of a Nucleus Characterize Astrophysical Processes,” Nuclear Physics Forum, Lawrence Berkeley National Laboratory, Berkeley, CA, May 17, 2019.

244. "Nuclear Incompressibility: Does It Depend on Nuclear Structure?", Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing, China, July 9, 2019.

245. "How to Give a Scientific Talk Well?", Peking University, Beijing, China, July 10, 2019.

246. "XJTU and REU@ND: A Double-Winning Partnership," Xi'an Jiaotong University, Xi'an, China, July 11, 2019.

247. "Nuclear Incompressibility: How Far Can You Squeeze a Star?", Birla Institute of Technology and Science, Pilani, India, July 22, 2019.

248. "Conversations 2019-I: The Nuclear Equation of State," Tata Institute of Fundamental Research, Mumbai, India, December 20, 2019.

249. "Conversations 2019-II: Compression-mode Giant Resonances and Nuclear Incompressibility," Tata Institute of Fundamental Research, Mumbai, India, December 27, 2019.

250. "How to Write a Scientific Paper Well?", Inter University Accelerator Center, New Delhi, India, January 7, 2020.

251. "How to Write a Scientific Paper Well?", Tata Institute of Fundamental Research, Mumbai, India, January 8, 2020.

252. "Giant Resonance Studies: from Normal to Active Targets," Tata Institute of Fundamental Research, Mumbai, India, January 10, 2020.

253. "How to Give a Scientific Talk Well?", Inter University Accelerator Center, New Delhi, India, March 9, 2022.

254. "Research is Critical to Our Well Being and also Fun!", A conversation with students of Dhanamajuri University, Imphal, Manipur, India, October 12, 2022.

255. "The Atomic Nucleus and the Stars," Panjab University, Chandigarh, India, October 18, 2022.

256. "The Atomic Nucleus and the Stars," Himachal Pradesh University, Shimla, India, October 21, 2022.

257. "The Atomic Nucleus and the Stars," Indian Physics Association General Lecture, IIT-Roorkee, Roorkee, India, October 28, 2022.

258. "From the Atomic Nucleus to the Stars," Interdisciplinary International Seminar, Victoria Institution (College), Kolkata, India, November 9, 2022.

259. "From the Atomic Nucleus to the Stars," Andhra University, Visakhapatnam, November 18, 2022.

260. “How to Write a Scientific Paper Well?”, Andhra University, Visakhapatnam, November 18, 2022.

261. “Nuclear Incompressibility: How Collective Excitation Modes of a Nucleus Characterize Astrophysical Processes?”, BITS-Pilani, Hyderabad, November 21, 2022.

262. “From Heavens to Earth, the Little Nucleus Reigns Supreme,” BITS-Pilani, Hyderabad, November 22, 2022.

263. “How to Write a Scientific Paper Well?”, Subject Board of Physics Special Seminar, TIFR, Mumbai, November 29, 2022.

264. “Research as an Integral Part of an Undergraduate (Physics) Curriculum”, Interaction with Core Faculty, BITS-Pilani, Dubai, December 29, 2022.

265. “Nuclear Incompressibility: Does It depend on Nuclear Structure?”, Saha Institute of Nuclear Physics, Kolkata, India, January 17, 2023.

266. “From Heavens to Earth, the Little Nucleus Reigns Supreme,” Assam University, Silchar, India, January 20, 2023.

267. “From the Atomic Nucleus to the Stars,” National Institute of Technology, Silchar, India, January 20, 2023.

268. “Nuclear Incompressibility: How Collective Excitation Modes of a Nucleus Characterize Astrophysical Processes,” Amity University, Noida, India, January 25, 2023.

269. “Nuclear Incompressibility: How Collective Excitation Modes of a Nucleus Characterize Astrophysical Processes,” Delhi University, Delhi, India, January 30, 2023.

270. “How to Write a Scientific Paper Well?”, Visva-Bharati University, Santiniketan, India, February 6, 2023.

271. “Young Scientists Conversations: Wobbling Motion and Chirality in Nuclei,” Saha Institute of Nuclear Physics, Kolkata, India, February 8, 2023.

272. “From the Atomic Nucleus to the Stars and the Nuclear Incompressibility,” Allahabad University, Allahabad, India, February 10, 2023.

273. “From the Atomic Nucleus to the Stars and the Nuclear Incompressibility,” Banaras Hindu University, Varanasi, India, February 11, 2023.

274. “From the Atomic Nucleus to the Stars and the Nuclear Incompressibility,” IIT-BHU, Varanasi, India, February 13, 2023.

275. “From Heavens to Alternate Energy on Earth, the Little Nucleus Reigns Supreme,” Bethune College, Kolkata, India, February 15, 2023.

276. “From Heavens to Earth, the Little Nucleus Reigns Supreme,” Cotton University, Guwahati, India, February 16, 2023.

277. “From Heavens to Earth, the Little Nucleus Reigns Supreme,” Tezpur University, Tezpur, India, February 17, 2023.

278. “Nuclear Incompressibility: How Collective Excitation Modes of a Nucleus Characterize Astrophysical Processes,” Tohoku Univ. GPPU Lecture, Sendai, Japan, April 7, 2023.

279. “Nuclear Incompressibility: How Collective Excitation Modes of a Nucleus Characterize Astrophysical Processes,” Tsukuba Univ., Tsukuba, Japan, April 11, 2023.

280. “Nuclear Incompressibility: How Collective Excitation Modes of a Nucleus Characterize Astrophysical Processes,” Konan Univ., Kobe, Japan, April 21, 2023.

281. “Exotic Quantal Rotation: Chirality, Wobbling, and Chiral Wobblers,” RCNP, Osaka Univ., Osaka, Japan, April 24, 2023.

282. “Nuclear Incompressibility: How Collective Excitation Modes of a Nucleus Characterize Astrophysical Processes,” Physics Department, Osaka Univ., Osaka, Japan, April 25, 2023.

283. “Exotic Quantal Rotation: Chirality, Wobbling, and Chiral Wobblers,” Univ. of Tokyo, Tokyo, Japan, April 26, 2023.

284. “Nuclear Incompressibility: How Collective Excitation Modes of a Nucleus Characterize Astrophysical Processes,” Tokyo Institute of Technology, Tokyo, Japan, April 28, 2023.

285. “Nuclear Incompressibility: Does It depend on Nuclear Structure?”, RIBF Seminar, RIKEN, Wako-shi, Japan, May 17, 2023.