

Rohini M. Godbole

(url of the homepage: <http://chep.iisc.ac.in/Personnel.html>. Also [rmgodbole.in](http://rmgodbole.in))

Date of Birth: 12 th November 1952.

Academic career and Professional Attainments:

(a)Degree	University/Institution	Year	Remarks
B.Sc. (Physics)	University of Pune,India	1972	First Rank
M.Sc. (Physics)	Indian Inst. of Technology, Bombay,India	1974	First Rank Institute Silver Medal
Ph.D. (Physics)	S.U.N.Y. at Stony Brook N.Y., U.S.A.	1979	

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**(b) Awards and Special Attainments (Reverse Chronological Order)**

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1. Inducted as an honorary member by Marathi Vidnyan Parishad, April 2022.
2. Recipient, D.Sc. (Honoris Causa), Visweswaraya Technological University, Belgaum, India (2022).
3. Recipient, D.Sc. (Honoris Causa) of Indian Institute of Technology (Kanpur), December 2021.
4. Speaker for the biennial 'IPA-IOP' Homi J. Bhabha (when held in the UK) Lectures in October-November 2021.
5. Recipient of the Goyal Prize in Physical Sciences, awarded by the Kurukshetra University, September 2021.
6. Awarded D.Litt., Tilak Maharashtra Vidyapeeth, Pune, 2021.
7. Elected Honorary Fellow, Karnataka Science and Technology Academy, January 2021.
8. Recipient, Life Time Achievement of the Karnataka Science and Technology Academy in Science, Technology, Engineering, Agriculture, Medicine (STEAM)', January 2021.
9. **Recipient, Ordre National du Merite (France), January, 2021.**
10. Recipient, K. S. Krishnan Memorial Lecture Award of the Indian National Science Academy, 2019.
11. Recipient R.D. Birla Award of IPA for 2018, given in 2019.
12. **Awarded Padmashri, the fourth highest civilian honour in India in January 2019.**
13. Member, Scientific Advisory Committee, Dutch Research School of Theoretical Physics, 2018-2022.
14. Member, High Energy Physics Advisory Panel, USA, 2018-2020.
15. Member, Board of Advisory Editors, Oxford Research Encyclopedia of Physics, 2018-2020.

16. APS outstanding referee for 2018.
17. Van der Waals chair visiting Professor at the Amsterdam Institute of Physics and Astronomy, Amsterdam, 2018.
18. Vice President and Council Member, National Academy of Sciences, India, Jan. 2017- Dec. 2018.
19. Prof. Archana Sharma Memorial Lecture Award-2016 of the National Academy of Sciences, India.
20. Invitee for the C.V. Raman Lecture of the Department of Atomic Energy (DAE) organized by the Indian Physics Association (IPA), January 2015.
21. D.A.E. Raja Ramanna Lecture Invitee, J.N. Centre for Advanced Scientific Research, October 2014.
22. Awarded D. Litt. (Honoris Causa) by the S.N.D.T. Women's University- one of the first Women's University in South East Asia-, Mumbai, December 2013.
23. Elected Staff Associate of the Abdus Salam International Centre for Theoretical Physics, Trieste, Italy (2013-2016).
24. Elected fellow of the Academy of Sciences of the Developing World (TWAS) (2010).
25. Satyendra Nath Bose Medal for Theoretical Physics of the Indian National Science Academy, 2008.
26. J.C. Bose fellowship of the Department of Science and Technology of India, 2008-2020.
27. Meghnad Saha Medal for Theoretical Physics of the Asiatic Society, 2007.
28. Elected Fellow of the National Academy of Sciences, Allahabad, India (2007).
29. MSIL Chair for Physical Sciences, Indian Institute of Science, Bangalore, October 2006-October 2009.
30. Rustom Choksi Award for Excellence in Research in Science of the Indian Institute of Science (2006)
31. Awarded the 'Jawaharlal Nehru Centenary Visiting Fellowship' of the Indian National Science Academy (2005).
32. Awarded the Distinguished Alumnus Award by the Indian Institute of Technology, Powai, India (2004).
33. Elected Fellow of the Indian National Science Academy, Delhi (2003).
34. Invited to present the plenary talk in the 'International conference on Women in Physics' held by IUPAP (March 2001) in Paris as the 'Asian' success story.
35. Awarded the Sheel Memorial Award for the Best Woman Scientist Lecture-2000, National Academy of Sciences, India, (2000).
36. Elected Fellow of Indian Academy of Sciences, (1992).
37. Elected Young Associate of Indian Academy of Sciences, (1985-1988).

38. Associate Member of the International Centre for Theoretical Physics: (1984-1992) (1995-2001).

### **Research activity**

Currently a Professor at the Indian Institute of Science, Bangalore in India, she is a high energy phenomenologist. Phenomenologists have an important role to play in collider physics as they participate crucially in designing strategies to extract information from the data about the interactions governing the results of the collisions processes. She has mainly worked on two separate aspects. She has pointed out new processes that could be studied at  $e^+e^-$  and  $ep$  colliders, to understand some intricate features of the interactions of high energy photons as well as to study the internal spin structure of the proton. The former work has had implications for design of linear electron-positron colliders. Secondly she has developed strategies for the collider studies of new particles like the top quark, the higgs boson, the supersymmetric partners of the Standard Model (SM) particles etc., for determining their properties and for probing many ideas of physics beyond the SM using those measurements. Notable has been her work in studying top polarisation, as well as studying the CP nature of the Higgs boson and looking for an 'invisibly' decaying Higgs boson. Some of them have been used in the collider experiments and are being used currently by the experimental groups such as the CMS and the ATLAS at the LHC. Some are sure to be used at future colliders.

### **More specific information regarding publications/citations etc:**

*The INSPIRE-HEP data base contains 302 entries which are citable (published or ArXiv preprints/e resources). 165 out of the 302 are published in journals. Among the 165, 4 have citations more than 500, 3 have citations more than 250 and 12 are cited more than 100 times. The average citation for these is 56.4 and goes to 39 after excluding self cites of all the authors. The H-index is 48 and becomes 42 after removing the self cites for all the authors. The INSPIRE data base counts citations of a publication when it is still an arXiv preprint, citations in ArXiv preprints as well as in internal experimental documents. The latter are specific to High Energy Physics and are refereed very critically though not published in journals. Including all the 302 items, the above mentioned numbers go up even further.*

*The different sciento-metric indices from other data bases, such as Scopus and Web of Science, which only counts Citations of journal publications in journal publications, are different yet have a similar trend.*

*She has co-authored a text book on 'Phenomenology of supersymmetric particles' for Ph.D. students and researchers in area of High Energy Physics in January 2005. The book has had two editions, both paper back and hard cover. It was selected by the World Scientific Publishers as one of their significant titles in High Energy Physics in a poster they bought out for display at CERN to celebrate the 25 th Anniversary of World Scientific. Currently co-authoring a book on the Standard Model to be published by Cambridge University Press.*

*She has co-edited the INSA 'Report on Science Career for Indian Women', the first such recent study in India. She conceived and co-edited the book 'Lilavati's Daughters: Women scientists of India' containing biographical and autobiographical sketches of about 100 Indian women scientists, which was reviewed, for example, in Nature and Science. It was considered for reading lists of sociology courses at universities. She has also co-edited a book called 'A Girls Guide to Life in Science' published by Zubaan, India, meant for girls making a choice of life in Science. She guided a survey 'What fraction of trained Scientific Woman Power are we losing and why?' to understand reasons behind the dropout of women from a science career AFTER a doctorate, a serious issue in India.*

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**(c) Other relevant information:**

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*1) Professional Positions:*

1. August 2018 – present, Honorary Professor, Centre for High Energy Physics, Indian Institute of Science, Bangalore.
2. June 1998 – August 2018, Professor (Chairperson till March 2002), Centre for Theoretical Studies(Centre for High Energy Physics), Indian Institute of Science, Bangalore.
3. November 1995 – June 1998 Associate Professor (Chairperson since Aug. 1996), Center for Theoretical Studies, Indian Institute of Science, Bangalore.
4. Dec.1987–November 1995, Reader, Department of Physics, University of Bombay.
5. November 1982–December 1987 Lecturer, Department of Physics, University of Bombay.
6. Aug. 1982–November 1982, CSIR Research Associate, Institute of Science, Bombay.
7. Sept. 1979–August 1982, Visiting Fellow, Tata Institute Of Fundamental Research, Bombay.

*2) Visiting Positions:*

1. Van der Waals Chair visiting Professor and distinguished visitor, Amsterdam Institute of Physics and Astronomy, Amsterdam , September 2018- December 2018.
2. Staff Associate, International Centre for Theoretical Physics, Trieste, Italy (2013-2016).
3. Feb 2011 - August 2011, Visiting Professor, Univ. of Utrecht, The Netherlands.
4. June 2010 - Feb 2011, Scientific Associate, CERN Theory Division, CERN, Geneva, Switzerland.
5. Adjunct faculty of the Tata Institute of Fundamental Research, Mumbai: Department of Theoretical Physics and International Centre for Theoretical Sciences, 2005-2010.
6. Dec. 2002 - May 2003, DESY, Hamburg, Germany.
7. May 2002 - Nov. 2002, Scientific Associate, CERN, Geneva, Switzerland,
8. June 1986 - June 1988, Department of Physics, University of Dortmund, Dortmund, W. Germany.

In addition: *A number of visiting positions of duration between one and three months at various times at: CERN (Geneva), DESY(Hamburg), Madison(Wisconsin), ICTP (Trieste), LNF-INFN(Frascati), Hawaii(USA), LAPTH, Annecy, France, LPT, Orsay, France.*

*3) Teaching:*

Taught extensively at University of Mumbai at masters level, then at the Indian Institute of Science at the undergraduate, graduate and post graduate level. The last are special topic courses such as the one on Supersymmetry Phenomenology. Taught a special course “Supersymmetry: basic formalism and collider phenomenology”, at the University of Utrecht, during the tenure as a visiting professor. Being a popular lecturer in demand, she has also taught at various short duration schools in and out of India.

Invited to talk about particle physics at all levels: at a popular level to general public, at a simple level for students and at a higher technical level for scientists who are not particle physicists or perhaps not even physicists and of course at technical level to particle physicists themselves. Just to give an idea, in the two years since 2012 July, after the announcement of the new boson at the LHC, gave 24 popular talks and nine colloquia on the topic of the Higgs and LHC physics, to be added to it are 27 Technical invited talks on the subject of the Higgs boson, the Top quark and BSM Physics at the LHC!! To give a flavour, January 2020 to March 2022, essentially the entire period of Pandemic! The record is similar in the years before. Of course, then most of the lectures were offline.

1. i) Taught Four different courses of 12 lectures each, in 1984, 1996, 2002 and 2013, on different aspects of the Standard Model and Collider Physics, in the Main School in Theoretical High Energy Physics in India held for graduate students in High Energy Physics.  
 ii) Taught two courses on 'Introduction to Particle Physics' in the preparatory school in the same series of schools in 1998, 2000 and also in a similar school for Experimental Particle Physics students.  
 iii) Taught two six hour lecture courses to in the SERC schools for Nuclear Physics in India.
2. Delivered a set of four lectures on Topics in Electroweak Symmetry breaking and QCD, in a summer school held by the Chinese Academy of Sciences, Beijing, China, 2004.
3. Delivered a set of two lectures on 'Supersymmetry at Colliders' in 'From Strings to LHC – II', Goa, India, 2007.
4. Delivered a set of three lectures on Supersymmetry in Algerian Summer School in Oran, Algeria, 2009.
5. Delivered a set of three lectures on Supersymmetry in Corfu Summer School, 2010.
6. Delivered twice a six lecture course twice for CERN summer students on 'Introduction to Standard Model' (2011, 2012), at CERN, Geneva.
7. Delivered a set of nine lectures on 'Beyond Standard Model through the window of Electroweak Symmetry breaking', in Vietnam School on Physics, Quy Nhon, Vietnam, 2012.
8. Delivered a set of four lectures on Higgs Physics at the Pre SUSY school before SUSY 2013, held at Trieste, Italy.
9. Delivered a set of four lectures on Supersymmetry Phenomenology at the Pre SUSY school before SUSY 2014 held in Manchester, U.K.
10. Delivered a set of four lectures on the Standard Model at the Asia Europe Pacific School on High Energy Physics (AEPSHEP2014) held at Puri in November 2014.
11. Invited to talk at the triennial ICFA (International Committee for future Accelerators) seminar held in Beijing in October 2014 on the Standard Model (theory) .
12. " Standard Model", a set of seven lectures delivered at SQU, Muscat, Sultanate of Oman, March 5-10, 2017.
13. "Introduction to Collider Physics", 4 lectures to be given at Formosa Summer School in High Energy Physics, to be held in Taiwan, 16-27 July, 2018.
14. " Where is collider physics headed?", Set of seven lectures delivered at the University of Amsterdam, as a Van der Waals professor, September to December 2019.

15. “ Nature of Symmetries and Symmetries of Nature”, a set of three lectures delivered as ‘Popli Memorial Lectures’ at St. Stephens College, Delhi, February 2020.
16. A three lecture course delivered in “Three Days National Level Virtual Lecture Workshop in Quantum Mechanics’ held at ”Sree Siddaganga College of Arts , Science and Commerce” as a Joint Inter Academy Education Panel activity, 24-26 April 2021.
17. “ Field Theory of the Standard Model”, A set of four lectures to be given at the AEPSHEP school in 2022 to be held in Korea in September 2022.

4) *Major Research Projects:*

1. DST India -BMWfW Austria project, 2018-2021, ‘Defining next generation searches for beyond the Standard Model Physics’, With Suchita Kulkarni, Institute of High Energy Physics, Vienna.
2. Co director of the ‘International Associated Laboratory’ on ‘Indo French High Energy Physics Collaboration’, (LIA), between India and France, with F. Boudjema of LAPTH- Annecy, France, 2016-2019.
3. J.C. Bose Fellowship of the Department of Science and Technology of India. Sep 2008- Nov. 2020.
4. Advanced Centre for Applications of Quantum Field Theory, A project with all the colleagues at the Centre of High Energy Physics, Duration Dec. 2011 to January 2017, granted by the Department of Science and Technology, India.
5. “HT@ LHC,-Fundamental Interactions at the boundary of theory, phenomenology and experiments’ , with F. Maltoni, Univ. of Louvain, Belgium, 2014-2017.
6. The Indo-US R & D Network Centre for Beyond Standard Model Physics Phenomenology, a project supported by the INDO USSTF. Collaborating Universities: Indian Institute of Science, Physical Research Laboratory, Harish Chandra Research Institute from the Indian side and Univ. of Hawaii, University of Wisconsin at Madison and Univ. of Kansas, 2010-2012, extended by one year.
7. “Collider Physics: SUSY, Higgs and CP violation at colliders” Collaborative joint project with France under the Indo French Centre for Advanced Scientific Research , 2004-2007, extended by one more year, with Univ. of Montpellier, C.N.R.S. laboratories LPT(Paris) and LAPTh (Annecy).
8. “Collider Physics”, a collaborative joint project with France under the Indo French Centre for Advanced Scientific Research, 1998-2002 C.N.R.S Laboratory for High Energy Physics: LAPTh(Annecy).
9. “ Physics at Current and Future Colliders”, INDO -US collaborative research project funded by NSF(US) and the DST(India), with University of Hawaii, NSF Grant INT 9602567, 1996-1999.

5) *Research Supervision in BU and IISc:*

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| Ph. D. Theses  | : Three (Bombay University)                   |
| M.Phil. Theses | : Three (Bombay University)                   |
| M.S. Theses    | : Five completed (I.I.Sc.)                    |
| Ph.D.          | : Ten completed and one in progress (I.I.Sc.) |

6) *Membership of Committees:*

- Committees of International Programs

1. Member of the Advisory Group formed by the World Bank to support the Analytical and Advisory work (ASA) on NEP implementation started as a part of their Global Tertiary Education effort (2021-2022).
2. Member, Advisory Group for the African Strategy for Fundamental and Applied Physics (ASFAP), (2020-2022).
3. Editorial Member, Journal of Modern Physics G, IOP publications, 2018- now.
4. Member, Scientific Advisory Board, Dutch Research Society for Theoretical Physics, 2018-2022.
5. Member, High Energy Physics Advisory Panel, USA, 2018-2020.
6. Member, Board of Advisory Editors, Oxford University Encyclopedia Physics, 2018-now.
7. Member, International Advisory Board, CEPC: Chinese(circular) Electron Positron Collider, China, 2016-now.
8. Member, Scientific Council of the Indo-French Center for the Promotion of Advanced Research (CEFIPRA) 2014-2017.
9. Member, Linear Collider Board of the Linear Collider Collaboration (2013-now).
10. Member, International Detector Advisory Group for the International Linear Collider, 2007-2012.
11. Member, Commission C11 on Particles and Fields of the International Union of Pure and Applied Physics, 2002–2005, 2008-2011.
12. Member, AASSA (Association of Academies and Societies of Sciences in Asia) (Inaugural) Special committee on women in science and engineering, December 2013-December 2016.
13. Member, Indian Delegation for the Biennial Ministerial meeting between UK and India (2012).
14. Member, Indian DST delegation to Bulgaria (2009)
15. Member, Asian Linear Collider Steering Committee, 2006-2009.

- Committees of Indian Institutions of research and higher learning.

1. Member, Working group of Kerala State Planning Board for the 14<sup>th</sup> five year plan, 2021-2022.
2. Member, HBCSE Management Board, 2021- 2024.
3. Chair, Board of Management, University Department of Physics, University of Mumbai, 2021-2024.
4. Member, Governing Body and Research Steering Committee for Sciences (RSC-S), of the Institute of Eminence (IoE) of the University of Hyderabad, 2020-now.
5. Member, Council of the Indian Academy of Sciences, Bangalore, 2018-now.
6. Member, Research Advisory Committee, Indian Association for Cultivation of Science, Kolkata, India, 2018-2020.
7. Member, Board of Governors, Indian Institute of Engineering Science and Technology, Shibpur, India, 2019-now.

8. Member, Board of Governors, Indian Institute of Technology, Mumbai. (One of the first two women members of the Board since its inception)(2014-2019)
  9. Member, Scientific Council of the Indian Statistical Institute, Kolkata, 2014-now.
  10. Member, Council of the Indian National Science Academy, January 2011 - January 2014.
  11. Member, Academic Council of the University of Hyderabad, 2011-2014.
  12. Member, Board of Governors, NIIT-Patna, 2013-2016, 2016-2017.
  13. Member, Scientific Advisory Council, Inter University Consortium for Astronomy and Astrophysics, IUCAA, Pune, Jan-2004- Dec-2008.
  14. Member, Review Committees for the Departments of Physics of a) Indian Institute of Technology, Mumbai, b) Indian Institute of Technology, Chennai and c) Indian Institute of Science Education and Research, Mohali, India (2014-2015).
- Committees of Government of India and govt. of India Committees.
    1. Member, DST-DAE coordination steering Committee for CERN-India cooperation, 2015-now.
    2. Member, Scientific Advisory Committee to the Cabinet of India (SAC-C), 2007- 2013.
    3. Member, Science and Technology Advisory Committee to the Planning Commission for the 11th plan, 2006-2007.
    4. Member, National IUPAP committee, January,2008 – December, 2012.
    5. Member, Joint National Committee of IUPAP and IAU, Jan. 2004 to Jan. 2007.
    6. Member, Program Advisory Committee, Department of Science and Technology (DST), India, (1997-2000).
    7. Member, Expert Committee of Council for Scientific and Industrial Research (CSIR), India (1995-2010).
    8. Member DST-DAE(Dept.of Atomic Energy) expert committee for CERN-India Project, 1998-2015.
    9. Member of the Planning Committee of the S.E.R.C. Schools in Theoretical High Energy Physics, 1994-2010, Chair 2005-2010.
  - Committees related to Women in Science
    1. Member, Expert Committee, Implementation of Programmes for Accelerated Participation of Women in Science and Technology, Department of Science and Technology.
    2. Chair, Advisory Committee of the Department of Science and Technology, for the implementation of the Gender Advancement Transformative Initiative (GATI).
    3. Member, 'The World Academy of Sciences Gender Advisory Committee (TWAS GAC)', 2021-2024.
    4. Member, Standing Committee of Women in Science of the Government of India, 2015-now.
    5. Chair, Committee for Physical and Mathematical Sciences, WOS/A scheme of the DST, 2004-2007.
    6. (Founding)Chair, Panel for Women in Science of the Indian Academy of Sciences, Bangalore, India (2005-2016).
    7. Chair, Panel for Women in Science of the Indian National Science Academy, 2015-now.



8. Member, Joint panel for Women in Science of the Indian National Science Academy, Indian Academy of Sciences and The National Academy of Sciences, India (2014-now).
9. Convener, Committee on Women in Science, of the Indian Academy of Sciences, Bangalore.
10. Member, Committee on Women in Science in India, formed by the Indian National Science Academy, Delhi.
11. Member, National Focus Group on 'Gender in Education', formed by the National Council of Educational Research and Training (NCERT), India.

7) *Editorial and referee responsibilities:*

1. Chief (mentor) Editor, Indian Journal of Pure and Applied Physics, brought out by CSIR, India, since January 2022.
2. Member, Editorial Board, Journal of Physics G, IOP Journal, UK, 2019-2022; Member Executive Editorial Board, from April 2022 .
3. Chair of the committee to draft the 'Equity and Inclusion Chapter of the Science and Technology Innovation Policy of India', STIP-2020.
4. **Member, Board of Advisory Editors, Oxford Research Encyclopedia of Physics, 2018-2020.**
5. **Associate Editor, Dialogue: Science, Scientists and Society, 2018-2022.**
6. Editorial Board Member: Pramana, Journal of Physics, Indian Academy of Science, 1995-1998.
7. **Chief Editor Pramana, Journal of Physics, Indian Academy of Science, 2007-2015 (Associate Editor 1998-2007).**
8. Editorial Board Member Current Science, 1997-2008.
9. Referee for 1)Phys. Lett. B 2)Phys. Rev. D 3)Phys. Rev. Lett. 4)Indian Journal of Physics 5)Journal of Physics G 6)Nucl. Phys. B 7)Z. Phys. C 8)Eur. J. Of Phys. C 9)Pramana 10) Current Science
10. Editor: LHC/LC Report. An international Report brought out to evaluate the synergy between the hadronic high energy collider LHC and the International Leptonic Collider in Planning, the ILC.

9a) *Organisation of Research Activity:*

1. Organising towards formation of an 'Indian Working Group(WG) on Linear Collider Physics' under the aegis of ACFA: Asian Committee for Future Accelerators. Managing a DST funded project to coordinate the activities of the Indian Working Group.
2. Coordinator of various Working Groups at five WHEPP (Workshop on High Energy Physics Phenomenology) from 1990–2010.
3. Convener of the R-parity subgroup at the workshop on 'Physics at TeV Colliders', Les Houches, France, June 1999.
4. Convener, Supersymmetry at Linear Colliders, at the International Workshop on Linear Colliders, LCWS04, Paris, March 2004.

5. Convener, 'SUSY04: THE 12th International Conference on Supersymmetry and Unification of Fundamental Interactions', Tsukuba, Japan, June 2004.
6. Convener, 'Top and QCD', International Workshop on Linear Colliders, LCWS05, March 2005, S.L.A.C.,Stanford (U.S.A.).
7. Organising Committee of the two year long 'Workshop on CP studies and non-standard Higgs physics' resulting in CERN Yellow report. May 2003 -May 2005, resulting in a CERN yellow report, which is a reference document on the subject.
8. Convener, 'Top and QCD', International Workshop on Linear Colliders, LCWS and ILC 2007, May-June 2007, Hamburg, Germany.
9. Convener, "Collider Physics Phenomenology and Beyond the Standard Model Physics", International Conference on High Energy Physics, ICHEP08, Philadelphia, USA, July 2008.
10. Convener, Supersymmetry Phenomenology,21st International Conference on Supersymmetry and Unification of Fundamental Interactions, SUSY 2013, Trieste,Italy, August 2013.
11. Convener, Supersymmetry Phenomenology, 22nd International Conference on Supersymmetry and Unification of Fundamental Interactions, SUSY 2014, Manchester, U.K., July 2014.
12. Convener, Session on Women in Science, 50th Anniversary of the Abdus Salam International Centre for Theoretical Physics, October, 2014.
13. Convener, 'Diversity and Inclusion', ICHEP 2016, 38 th International Conference on High Energy Physics, August 2016, Chicago, USA.
14. Convener, SUSY Models, 24th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY), July 2016, Melbourne, Australia.

*9b) Organisation of Symposia, Seminars, Workshops (International):*

1. Involved in the series of several International Workshops on High Energy Physics Phenomenology (WHEPP1 to WHEPP12), right from its inception. Member of the National Organising Committees for almost all of them.
2. Member of the National Organising Committee of the International Conference on Nonaccelerator Particle Physics, Bangalore, Dec. 1993.
3. Member, International Advisory Committee, International Workshop on Linear Collider Physics, LCWS 2000, Fermilab, Batavia, U.S.A. & Organiser of the parallel session on Supersymmetry.
4. Member, Advisory Committee, ICPAQGP, International Conference on Physics and Astrophysics of the Quark Gluon Plasma, Jaipur, November 2001.
5. Member, International Advisory Committee, International Workshop on Linear Collider Physics, LCWS 2002, 25-30 August,2002, Jeju Island,Korea, LCWS04, Paris, April 2004, LCWS05, USA, April 2005, LCWS07 and ILC 2007, Hamburg, LCWS10 - Beijing, China, and LCWS11 - Granada, Spain, LCWS17-Strassbourg and LCWS18 Japan.
6. Member, Organising Committee, PASCOS, International Symposium on Particle, String and Cosmology, Jan. 2003, Mumbai,India; convener, Higgs Physics, for PASCOS to be held in Taiwan, 2013.
7. Member, Program Advisory Committee, the International Workshop on Physics at TeV colliders, Les Houches, France, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017.

8. Member International Advisory Committee, 'XXI International Symposium on Lepton-Photon Interactions at High Energies ,LP03, Fermilab, Batavia, U.S.A., LP05, Daegu, Korea, LP07, Hamburg, Germany and LP13, San Fransisco.
9. Member, Program Committee of the Meeting of the IUPAP working group on Plagiarism in Scientific Publication and the role of Journals in its prevention, Oct. 2003, London.
10. **Convener, International Workshop On Linear Colliders, LCWS06, March 9-13, 2006, Bangalore, India.**
11. Member, International Advisory Committee, International Conference on Supersymmetry and Unification, SUSY06, Irvine, California, U.S.A., July 2006.
12. Organiser, International Worksop 'From Strings to LHC-I', January 3-10, 2007, Goa, India.
13. Organiser, International Worksop 'From Strings to LHC-II', December 11- 23, 2007. Bangalore, India.
14. Member, International Program Advisory Committee, Hadron Collider Physics Symposium, Galena, Illinois, U.S.A, May 27-31, 2008.
15. Member, Program Advisory Committee, International Conference on High Energy Physics, Paris, July 22-28, 2010.
16. **Organiser, XXV International Symposium on Lepton-Photon Interactions at High Energies, 22-37 August, 2011, Mumbai, India.**
17. Member, International Advisory Committee, Asia-Europe-Pacific School of High Energy Physics (2012-now).
18. Member, Program Advisory Committee, International Conference on High Energy Physics, Valencia, Spain, July 2014.
19. Organiser, 'Indo-French Women in Science seminar through IFCPAR: Indo French Centre for Promotion for Advanced Scientific Research, February 2015.
20. Member, International Advisory Committee, 3rd and (4th) International Conference on New Frontiers in Physics, ICNFP-2014, (ICNFP-2015,2017,2018) August 2014 (August 2015,2017,2018), Kolymbari, Greece.
21. Member, International Advisory Committee, XXVII International Conference on High Energy Lepton Photon Interactions, August 2015, Ljubljana , Yugoslavia.
22. Member, International Advisory Committee, International Meeting on Higgs Coupling, Durham, U.K., October 2015, SLAC November 2016, Heidelberg, November 2017 and Japan, 2018(to take place).
23. **Organiser, Indo-French Network (INFRE-HEPNET) kickoff meeting, May 2016, Bangalore, IISc, India.**
24. Member, International Advisory Committee, Precision theory for precise measurements at LHC and future colliders, To be held in Quy Nhon, Vietnam, September-October 2016.
25. Member, International Advisory Committee, Annual International Conference on Large Hadron Collider Physics, Shanghai, 2016.

26. **Organiser, Indo-French Network (INFRE-HEPNET) meeting, February 2018, Indian Institute of Science, Education and Research, Pune.**
27. **Organiser, Topical meeting, ‘Is Supersymmetry the best bunker to hide in, in view of the experimental data from LHC?’, Indian Institute of Science, May 10-13, 2018.**

*9c) Organisation of Symposia, Seminars, Workshops (National)*

1. Organisation of the workshop on ‘Physics beyond Standard Model’, Univ. of Bombay, February 1991.
2. Organisation of the workshop on ‘Quark Matter in Nuclei’ , Tata Inst. of Fundamental Research, April 1991.
3. Member Program Advisory Committee, National Organising Committee etc, for the DAE symposia on high energy physics, held in 1992, 1994, 1996, 1998, 2000.
4. Member, Program Advisory Committee, ‘Workshop on Hadron Physics’, March 2005, Puri, India.
5. Organiser of numerous national workshops in India.

*9d) Organisation (Educational):*

1. Director, XII S.E.R.C. School in Theoretical High Energy Physics, Held in Bangalore Feb.-March 1997.
2. Editorial Board Member, TRIPS: Texts and Readings in Physical Sciences, Series of books being brought out by Hindustan Publishers.
3. **Organiser and Chair (LOC), 2014 Asia Europe Pacific School of High Energy Physics, AEPSHEP2014, Bhubaneswar, India, November 2014.**

*10) Science Education:*

1. Guiding two or three summer students every summer for the last twenty under different programs such as the Inter Academy Science Education program, the Kishore Vaigyanik Prohatsan Yojana, INSPIRE scheme of the Department of Science and Technology India. She has had students from Europe coming to India as a summer student who ended up doing her Master’s project with her and published a paper with her!
2. Giving popular lectures at various schools as well as colleges in Pune, Mumbai and Bangalore.
3. Giving lectures in other centres of science education like the planetarium in Mumbai and Bangalore.
4. Participation in training students for physics Olympiad.