

CURRICULUM VITAE

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Academic	:	Ph.D.(Physics) Bombay University 1980
Career	:	M.Sc. Bombay University 1976
	:	B.Sc. Bombay University 1973

Research Interests	:	<ol style="list-style-type: none"> 1. Gravitational Radiation : Theoretical Aspects of Generation, Radiation reaction, Data Analysis and Numerical Relativity 2. Perturbation and Approximation Techniques in General Relativity 3. Alternative Theories of Gravity 4. Black Holes and Neutron Stars
Honours	:	<ol style="list-style-type: none"> 1) Fellowship of American Physical Society (2012) <i>Citation: For his important contributions to gravitational theory, in particular the post-Newtonian approximation and equations of motion, his outstanding leadership in creating the gravitational wave community in India through the IndIGO consortium, and his key role in the LIGO-India initiative.</i> 2) Fellowship of International Society of General Relativity and Gravitation (2013) <i>Citation: For his work in applying the post-Minkowskian and post-Newtonian approximations to the problem of compact binary systems, and for his leadership of the gravitational-wave community of India.</i> 3) Beller Lectureship for APS April meeting (2015) 4) Vaidya-Raychaudhuri Endowment award of IAGRG (2015) 5) <i>Gruber Cosmology Prize (shared with LIGO Scientific Collaboration), Gruber Foundation (2016).</i> 6) <i>Special Breakthrough Prize in Fundamental Physics (shared with LIGO Scientific Collaboration), The Breakthrough Prize in Life Sciences. (2016)</i> 7) <i>The Physics World 2016 Breakthrough of the Year (shared with the LIGO Scientific Collaboration) for its revolutionary, first-ever direct observations of gravitational waves"</i> 8) <i>The UK Royal Astronomical Society 2017 Group Achievement Award in Astronomy (shared with the LIGO Scientific Collaboration), for the direct detection of gravitational waves by the LIGO detectors.</i> 9) <i>Bruno Rossi Prize (shared with the LIGO Scientific Collaboration) "for the first direct detections of gravitational waves, for the discovery of merging black hole binaries, and for beginning the new era of gravitational-wave astronomy."</i> 10) <i>Einstein Medal from the Einstein Society in Bern, Switzerland (shared with the LIGO Scientific Collaboration)</i> 11) <i>2017 Princess of Asturias Award for Technical and Scientific Research (shared with the LIGO Scientific Collaboration)</i>

Memberships	:	<ol style="list-style-type: none"> 1. The International Society on General Relativity and Gravitation (GRG) 2. International Astronomical Union (IAU) 3. Indian Association for General Relativity and Gravitation (IAGRG) 4. Indian Physics Association Bangalore Chapter 5. American Physical Society (APS) USA
Positions held		<p>at ICTS, TIFR, Bangalore, India</p> <ol style="list-style-type: none"> 1 Visiting Professor (2015 -) 2 Adjunct Professor (2011 - 2014) <p>at Raman Research Institute, Bangalore, India</p> <ol style="list-style-type: none"> 1. <i>Professor II (2008 -2014)</i> 2. <i>Professor (2001 - 2008)</i> 3. <i>Associate Professor - II (1997 - 2001)</i> 4. <i>Associate Professor - I (1994 - 1997)</i> 5. <i>Research Associate (1982 - 1994)</i> 6. <i>Scientist (1980 -1982)</i> 7. <i>Chairman, Theoretical Physics Group, Oct 1998 - Oct 2001 and June 2004 - July 2005.</i>
Visiting Scientist at		<ol style="list-style-type: none"> 1. Washington University, St. Louis , USA 2. University of Wales, Cardiff, UK. 3. DARC, Observatoire de Paris Meudon, France 4. Institut d'Astrophysique de Paris, Paris, France 5. Institut des Hautes Etudes Scientifiques, Bures sur Yvette, France 6. Max-Planck-Institut für Physik und Astrophysik Garching , Germany 7. International Centre for Theoretical Physics Trieste, Italy 8. School of Mathematical Sciences Queen Mary and Westfield College, London U.K. 9. Astrophysics Group and LIGO , Caltech, Pasadena, USA. 10. Albert Einstein Institute, Max Planck Institut für Gravitationsphysik, Golm, Germany 11. Department of Earth and Space Science, Osaka University, Toyonaka, Japan 12. Center for Gravitational Wave Physics, Penn State University, State College, USA 13. Institut Henry Poincaré (IHP), Paris, France.

GRG/GW Organization	<p>:</p> <ol style="list-style-type: none"> 1. Committee Member, International Society of General Relativity and Gravitation (2010 - 2019). 2. PI of IndIGO-LSC in LIGO Scientific Collaboration (LSC) (2014 -) 3. Member, Governing Council, BASE, Jawaharlal Nehru Planetarium, Bangalore (2013 -) 4. IndIGO-LSC Council member in LIGO Scientific Collaboration (LSC) Council (2013 -) 5. IndIGO Representative on Gravitational Wave International Committee (GWIC) (2011 -) 6. IndIGO-LSC member in LIGO Scientific Collaboration (LSC) (2011 -) 7. Chair, IndIGO Consortium (2009 -) 8. Member, IUPAP GRG Young Scientist Prize committee (2014) 9. Member, N.R. Sen Award committee (2015) 10. Member, Juergen Ehlers Thesis Prize committee of International Society for General Relativity and Gravitation (2010) 11. Member, Nominating Committee, International Society of General Relativity and Gravitation (2004 - 2010). 12. President, Indian Association for General Relativity and Gravitation (2006 - 2008). 13. Secretary, Indian Association for General Relativity and Gravitation (1994 - 1998).
Editorial	<ol style="list-style-type: none"> 1. Editor in Chief for the Online Journal Living Reviews in Relativity, (2016 -) Springer, Heidelberg, Germany. 2. Subject Editor on Gravitational Waves for the Online Journal Living Reviews in Relativity, (2000 -) Albert Einstein Institute, Golm, Germany. Springer, Heidelberg, Germany. 3. Member, Editorial Board of the Online Journal Living Reviews in Relativity, Albert Einstein Institute, Golm, Germany (1998 -). Springer, Heidelberg, Germany. 4. Member, Editorial Board of Classical Quantum Gravity (2016 -) IOP, UK
Projects	<ol style="list-style-type: none"> 1. IUSSTF Project: <i>IndoUS Centre for the Exploration of Extreme Gravity</i> , No: IUSSTF-JC-029-2016 (2017 - 2019). 2. Indo-French Project on <i>Gravitational Waves from Neutron Star Binaries</i>, No: 2904-1 (2003 - 2007). 3. Indo-Australian project on <i>Establishing Australian-Indian collaboration on gravitational wave astronomy</i>, No: DST/INT/AUS/P-26/08 (2009 - 2011) 4. Indo-French Project on <i>High accuracy gravitational waves from black hole binaries</i>, No: 4204-2 (2010 - 2013).

References

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List of Publications

1. Upper Limits on Gravitational Waves from Scorpius X-1 from a Model-Based Cross-Correlation Search in Advanced LIGO Data, The LIGO Scientific Collaboration, the Virgo Collaboration, arXiv:1706.03119
2. **GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2**, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. Lett* **D 118**, 221101 (2017). arXiv:1706.01812
3. Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO , The LIGO Scientific Collaboration, the Virgo Collaboration, arXiv:1704.04628
4. Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model, The LIGO Scientific Collaboration, the Virgo Collaboration, arXiv:1704.03719
5. C.V. Vishveshwara (1938 - 2017), N. Dadhich and B.R. Iyer, *Current Science*, **112**, 866 (2017)
6. First search for gravitational waves from known pulsars with Advanced LIGO, The LIGO Scientific Collaboration, the Virgo Collaboration, Submitted *Ap. J.* , (2017). arXiv:1701.07709
7. Directional limits on persistent gravitational waves from Advanced LIGO's first observing run, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. Lett* **D 118**, 121102 (2017). arXiv:1612.02030
8. Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. Lett* **D 118**, 121101 (2017). arXiv:1612.02029
9. Search for Gravitational Waves Associated with Gamma-Ray Bursts During the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B, The LIGO Scientific Collaboration, the Virgo Collaboration, arXiv:1611.07947
10. Effects of waveform model systematics on the interpretation of GW150914, The LIGO Scientific Collaboration, the Virgo Collaboration, *Class. Quant. Grav.* **34** , 104002 (2017). arXiv:1611.07531
11. All-sky search for short gravitational-wave bursts in the first Advanced LIGO run, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. D* **D 95**, 042003 (2017). arXiv:1611.02972
12. Constructing waveforms, building a community, Bala Iyer, ICTS-NewsLetter, **2** Issue 2,(2016). <https://www.icts.res.in/newsletter>
13. Exploring the Sensitivity of Next Generation Gravitational Wave Detectors, The LIGO Scientific Collaboration, the Virgo Collaboration, arXiv:1607.08697

14. Results of the deepest all-sky survey for continuous gravitational waves on LIGO S6 data running on the Einstein@Home volunteer distributed computing project, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. D* **94**, 102002 (2016). arXiv:1606.09619
15. **GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence**, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. Lett* **D 116**, 241103 (2016). arXiv:1606.04855
16. Search for transient gravitational waves in coincidence with short duration radio transients during 2007-2013, The LIGO Scientific Collaboration, the Virgo Collaboration, others *Phys. Rev. D* **93**, 122008 (2016). arXiv:1605.01707
17. The basic physics of the binary black hole merger GW150914, The LIGO Scientific Collaboration, the Virgo Collaboration, *Annalen. Phys.* **529**, 1600209 (2017). arXiv:1608.01940
18. Upper limits on the rates of binary neutron star and neutron-star-black-hole mergers from Advanced LIGO's first observing run, The LIGO Scientific Collaboration, the Virgo Collaboration, arXiv:1607.07456
19. Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. D* **95**, 082005 (2017). arXiv:1607.02216
20. Binary Black Hole Mergers in the first Advanced LIGO Observing Run, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. X* **6**, 041015 (2016). arXiv:1606.04856
21. Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. D* **94**, 064035 (2016). arXiv:1606.01262
22. An improved analysis of GW150914 using a fully spin-precessing waveform model, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. X* **6**, 041014 (2016). arXiv:1606.01210
23. Comprehensive All-sky Search for Periodic Gravitational Waves in the Sixth Science Run LIGO Data, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. D* **94**, 042002 (2016). arXiv:1605.03233
24. A First Targeted Search for Gravitational-Wave Bursts from Core-Collapse Supernovae in Data of First-Generation Laser Interferometer Detectors, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. D* **94**, 102001 (2016). arXiv:1605.01785
25. Supplement: Localization and broadband follow-up of the gravitational-wave transient GW150914, The LIGO Scientific Collaboration, the Virgo Collaboration, *Ap. J. Supplement Series* **225:8** (2016). arXiv:1604.07864
26. Localization and broadband follow-up of the gravitational-wave transient GW150914, The LIGO Scientific Collaboration, the Virgo Collaboration, *Ap. J. L.* **826**, L13 (2016). arXiv:1602.08492

27. High-energy Neutrino follow-up search of Gravitational Wave Event GW150914 with ANTARES and IceCube, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. D* **93**, 122010 (2016). arXiv:1602.05411
28. Tests of general relativity with GW150914, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. Lett.* **116**, 221101 (2016). arXiv:1602.03841
29. GW150914: Implications for the stochastic gravitational wave background from binary black holes, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. Lett* **D 116**, 131102 (2016). arXiv:1602:03847
30. Astrophysical Implications of the Binary Black-Hole Merger GW150914, The LIGO Scientific Collaboration, the Virgo Collaboration, *Ap. J. L* **818**, L22 (2016). arXiv:1602.03846
31. Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914, The LIGO Scientific Collaboration, the Virgo Collaboration, arXiv:1602.03845
32. Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914, The LIGO Scientific Collaboration, the Virgo Collaboration, *Class. Quant. Grav.* **33**, 134001 (2016). arXiv:1602.03844
33. Observing gravitational-wave transient GW150914 with minimal assumptions, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. D* **93**, 122004 (2016); *Addendum Phys.Rev. D* **94** 069903 (2016) arXiv:1602.03843
34. The Rate of Binary Black Hole Mergers Inferred from Advanced LIGO Observations Surrounding GW150914, The LIGO Scientific Collaboration, the Virgo Collaboration, *Astrophys. J.* **833**, 1 (2016). arXiv:1602.03842
35. Properties of the binary black hole merger GW150914, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. Lett.* **116**, 241102 (2016). arXiv:1602.03840
36. GW150914: First results from the search for binary black hole coalescence with Advanced LIGO, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. D* **93**, 122003 (2016). arXiv:1602.03839
37. GW150914: The Advanced LIGO Detectors in the Era of First Discoveries, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. Lett.* **D 116**, 131103 (2016). arXiv:1602.03838
38. Guest Editorial (Issue on GW Discovery), Bala Iyer, *Resonance*, **21**, 203 (2016)
39. A vision vindicated, T. Souradeep and B. R. Iyer, *Frontline*, P130 March 182016
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41. **Observation of Gravitational Waves from a Binary Black Hole Merger**, The LIGO Scientific Collaboration, the Virgo Collaboration, *Phys. Rev. Lett.* **D 116**, 061102 (2016). arXiv:

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54. **Non-Linear multipole interactions and gravitational-wave octupole modes for inspiralling compact binaries to third-and-a-half post-Newtonian order**, G. Faye, L. Blanchet and B. R. Iyer, *Class. Quant. Gr.*, **32**, 045016 (2015). arXiv:1409.3546
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57. First all-sky search for continuous gravitational waves from unknown sources in binary systems, The LIGO Scientific Collaboration, The Virgo Collaboration, *Phys. Rev. D* **90**, 062010 (2014). arXiv:1405.7904
58. Methods and results of a search for gravitational waves associated with gamma-ray bursts using the GEO600, LIGO, and Virgo detectors, The LIGO Scientific Collaboration, The Virgo Collaboration, *Phys. Rev. D* **89**, 122004 (2014). arXiv:1405.1053
59. Search for gravitational radiation from intermediate mass black hole binaries in data from the second LIGO-Virgo joint science run, The LIGO Scientific Collaboration, The Virgo Collaboration, *Phys. Rev. D* **89**, 122003 (2014). arXiv:1404.2199
60. Search for gravitational waves associated with gamma-ray bursts detected by the Inter-Planetary Network, LIGO Scientific Collaboration, Virgo Collaboration, *Phys. Rev. Lett.* **113**, 011102 (2014). arXiv:1403.6639
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64. Application of a Hough search for continuous gravitational waves on data from the 5th LIGO science run, LIGO Scientific Collaboration, Virgo Collaboration, *Class. Quant. Gr.*, **31**, 085014 (2014). arXiv:1311.2409
65. Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors, LIGO Virgo Collaboration, *Phys. Rev. Lett.* **112**, 131101 (2013). arXiv:1310.2384
66. Directed search for continuous Gravitational Waves from the Galactic Center, The LIGO Scientific Collaboration, The Virgo Collaboration, *Phys. Rev. D* **88** 102002, 2013. arXiv:1309.6221
67. Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts, The LIGO Scientific Collaboration, The Virgo Collaboration, *Phys. Rev. D* **88**, 122004 (2013). arXiv:1309.6160 (2013).
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74. IndIGO, LIGO-India and visit to EGO-Virgo, Bala R Iyer, h, The gravitational voice, No.23 March 2013.
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77. **The third and a half post-Newtonian gravitational wave quadrupole mode for quasi-circular inspiralling compact binaries**, Guillaume Faye, Sylvain Marsat, Luc Blanchet, Bala R. Iyer, *Class. Quant. Gr.*, **29**, 175004 (2012). arXiv:1204.1043
78. Scientific objectives of the Einstein Telescope, B. Sathyaprakash et al, *Class. Quant. Gr.*, **29**, 124013 (2012). arXiv:1206.0331
79. The 2.5PN linear momentum flux and associated recoil from inspiralling compact binaries in quasi-circular orbits: Nonspinning case, Chandra Kant Mishra, K. G. Arun and Bala R. Iyer, *Phys. Rev. D*, **85**, 044021 (2012); *Phys. Rev. D* **87**, 069908(E) (2013). arXiv:1111.2701
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84. **Spherical harmonic modes of 5.5 post-Newtonian gravitational wave polarisations and associated factorised resummed waveforms for a particle in circular orbit around a Schwarzschild black hole**, Ryuichi Fujita and Bala R. Iyer, *Phys. Rev. D* **82**, 04451 (2010). arXiv:1005.2266
85. Gravitational Waveforms for Binary Black Holes, Bala R. Iyer, *Int. J. Modern Phys. Proceedings of 1st Galileo-Xuguangqi meeting*, Ed. D. Blair, R. Ruffini, Y. Jing and S. Xue **20**, 2081 (2011)
86. AIGO: a southern hemisphere detector for the worldwide array of ground-based interferometric gravitational wave detectors, P. Barriga et al (44 Authors including B. R. Iyer), *Class. Quantum Grav.* **27**, 084005, 2010.
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88. **Third post-Newtonian angular momentum flux and the secular evolution of orbital elements for inspiralling compact binaries in quasi-elliptical orbits**, K. G. Arun, Luc Blanchet, Bala R. Iyer and Siddhartha Sinha *Phys. Rev. D.*, **80**, 124018 (2009). gr-qc/0908.3854
89. **Comparison of post-Newtonian templates for compact binary inspiral signals in gravitational-wave detectors**, Alessandra Buonanno, Bala Iyer, Evan Ochsner, Yi Pan and B.S. Sathyaprakash *Phys. Rev. D.*, **80**, 084043 (2009). gr-qc/0907.0700
90. **Improved resummation of post-Newtonian multipolar waveforms from circularized compact binaries**, Thibault Damour, Bala R. Iyer and Alessandro Nagar *Phys. Rev. D.*, **79**, 064004 (2009). gr-qc/0811.2069
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92. LISA as a dark energy probe, K.G. Arun, Chandrakant Mishra, Chris Van Den Broeck, Bala R. Iyer, B.S. Sathyaprakash and Siddhartha Sihna, *Class. Quant. Grav.*, **26**, 094021 (2009). gr-qc/0810.5727 CQG
93. **The third post-Newtonian gravitational wave polarisations and associated spherical harmonic modes for inspiralling compact binaries in quasi-circular orbits**, Luc Blanchet, Guillaume Faye, Bala R. Iyer and Siddhartha Sinha *Class. Quant. Grav.*, **25**, 165003 (2008). gr-qc/0802.1249
94. **Inspiralling compact binaries in quasi-elliptical orbits: The complete 3PN energy flux**, K. G. Arun, Luc Blanchet, Bala R. Iyer and Moh'd S. S. Qusailah, *Phys. Rev. D*, **77**, 064035 (2008). gr-qc/0711.0302
95. **Tail effects in the 3PN gravitational wave energy flux of compact binaries in quasi-elliptical orbits**, K G Arun, Luc Blanchet, Bala R Iyer and Moh'd S S Qusailah, *Phys. Rev. D*, **77**, 064034 (2008). gr-qc/0711.0250

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K.G. Arun, Bala R. Iyer, B.S. Sathyaprakash, Siddhartha Sinha and Chris Van den Broeck,
Phys. Rev. D., **76**, 104016 (2007). [gr-qc/0707.3920](#)
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K.G. Arun, Bala R. Iyer, B.S. Sathyaprakash and Siddhartha Sinha, *Phys. Rev. D.*, **75**,
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99. Probing the non-linear structure of general relativity with black hole binaries,
K. Arun, B. R. Iyer, M. S. S. Qusailah and B. S. Sathyaprakash, *Phys. Rev. D.*, **74**,
024006 (2006). [gr-qc/0604067](#)
100. **Testing post-Newtonian theory with gravitational wave observations,**
K. Arun, B. R. Iyer, M. S. S. Qusailah and B. S. Sathyaprakash, *Class. Quant. Grav.*, **23**,
L37 (2006). [gr-qc/0604018](#)
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6. Executive Summary Minutes of meeting on The Indian Road-Map for Gravitational Wave Astronomy: IndIGO - ACIGA meeting on LIGO-Australia, Delhi, February 2011.
7. Summary of the meeting on Australian International Gravitational Observatory: Project Plan and benefits, and 3 day Workshop on Experimental General Relativity at Perth, February 2010
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Invited Talks at Conferences and Meetings

1. Deciphering the universe with gravitational waves, National Conference on Recent Trends in the Study of Compact Objects Theory and Observation (RETCO - III), IIST, Thiruvananthapuram, 5 June 2017

2. C.V. Vishveshwara: Beyond the Black Hole Trail, Discussion meeting “Remembering C.V. Vishveshwara”, ICTS-TIFR, Bangalore, 23 Feb 2017
3. Advanced LIGO: The Discovery Instrument, 104th Indian Science Congress, Tirupati, Session on GW, 6 Jan 2017
4. The fascinating story of gravitational wave detection, XXII DAE-BRNS High Energy Physics Symposium, Delhi University, 13 Dec 2016
5. One small strain in LIGO, one giant leap for Gravitational Wave astronomy, Evening Lecture, 61 DAE-BRNS Symposium on Nuclear Physics, SINP, Kolkata 7 Dec 2016
6. From IndIGO to LIGO-India, Asian-Pacific Gravitational Wave Forum, Hong Kong, 30 Sept 2016
7. The first direct detection of gravitational waves: Not with a whimper but a bang, M.C. Joshi memorial lecture, Mumbai Univ, 19 Oct 2016
8. LIGO-India, GWIC, Columbia Univ, 10 July 2016
9. From prediction to detection: Highlights of the fascinating history of gravitational waves, Mid year meeting of Indian Academy of Sciences, Bangalore, 1 July 2016.
10. Beyond linearized approximation of General Relativity for Gravitational Wave detection, Summer School in GW Astronomy, (3 Lectures) ICTS-TIFR, Bangalore July 1-3, 2015
11. Experiments driving Theory: Gravitational wave detection and the two body problem in general relativity, Amaldi 11 meeting, Gwanju, Korea, 22 June 2015
12. IndIGO update on LIGO-India, GWIC, Gwanju, Korea, 21 June 2015
13. LIGO-India: expanding the international network of gravitational wave detectors, Focus Session: Beller Lectureship on Gravitational wave Detection, APS April meeting April 12 2015.
14. Chipping in to detect and locate the elusive gravitational wave sources: Looking back and Looking forward, Vaidya Raychaudhuri Endowment Lecture, XXI IAGRG meeting, RRI, 19 March 2015
15. Status of LIGO-India, LVC Caltech Remote Plenary, 12 March 2015
16. LIGO-India: Towards Multi-messenger Astronomy, Astronomy, Cosmology and Fundamental Physics with Gravitational Waves, CMI 2 March 2015
17. LIGO-India: Beyond detection to Gravitational Wave Astronomy, 33rd Meeting of The Astronomical Society of India, NCRA, 19 Feb 2015
18. Report on LIGO-India, LIGO Virgo Collaboration meeting, Stanford University, Stanford, 25 - 28 August 2014
19. IndIGO update on LIGO-India, GWIC, Banff, June 2014
20. LIGO-India status update, (19 March 2014), LIGO Virgo Collaboration meeting, Artemis group (Observatoire de la Nice), Nice, 17-21 March 2014

21. LIGO-India update, (25 Sept), LIGO Virgo Collaboration meeting, AEI, Hannover, 22-27 Sept 2013
22. IndIGO, Report 2012-13, GWIC meeting, Warsaw July 7, 2013.
23. From IndIGO to LIGO-India, Interface of Numerical Relativity with Gravitational wave astronomy, neutrino physics and high energy astrophysics, ICTS, Bangalore, July 1 2013.
24. PN convergence for spinning binaries, Interface of Numerical Relativity with Gravitational wave astronomy, neutrino physics and high energy astrophysics, ICTS, Bangalore, June 25, 2013.
25. LIGO-India update, LIGO Virgo Collaboration meeting, Bethesda, 20 March 2013.
26. The long walk towards gravitational wave astronomy, Keynote address, IAGRG-27, Srinagar, Garhwal, 7 March 2013.
27. Gravitational Waves from inspiraling compact binaries in general orbits and their applications to EOM, Equations of motion in relativistic gravity, 21 Feb 2013
28. Update on LIGO-India, LIGO Virgo Collaboration meeting, Rome Sept 12, 2012
29. IndIGO, Report 2011-12, GWIC meeting, Rome Sept 11, 2012.
30. LIGO-India, Current Update, IPR, Bhat, Feb 2012
31. LIGO-India, Current Status, Workshop on GW, IUCAA, Pune, 2011, Dec 2011
32. IndIGO and LIGO-India, Introductory remarks, EGO-IndIGO meeting on GW, IUCAA, Pune Nov 2011
33. IndIGO and LIGO-India, IndIGO meeting on LIGO-India, HBCSE, Mumbai, Aug 2011
34. The case for IndIGO membership of GWIC, GWIC meeting, Cardiff, July 2011.
35. IndIGO: Genesis, Highlights and current status, Welcome address at The Indian Road-Map for Gravitational Wave Astronomy: IndIGO - ACIGA meeting on LIGO-Australia, Delhi, February 2011.
36. Gravitational waves from binary black holes, Chandrasekhar Centenary Conference, IIA, Bangalore (2010).
37. A Comparison of PN templates for inspiralling compact binaries, Australian International Gravitational Observatory: Project Plan and benefits, Perth, Australia Feb, 2010
38. Gravitational Waves: A new window to the universe, SERC winter school on Nuclear astrophysics and neutrino astrophysics, Calicut University, February 2010
39. From Einstein's quadrupole formula to GW phasing, Feb 2010 SERC winter school on Nuclear astrophysics and neutrino astrophysics, Calicut University, February 2010
40. From Principle of Equivalence to Nature of Gravitation: Albert Einstein's Inspiration (4 Lectures), Physics Department, Calicut University, Kozikode, Feb 2010

41. Gravitational Waveforms for Binary Black Holes, First Galileo-Xu Guangqi Meeting, Shanghai, China, October, 2009
42. Gravitational waves from inspiralling compact binaries in quasi-elliptical orbits - A ready reckoner,
Post Newton 2008, International conference, Jena, June 2008.
43. The Long Walk Towards Gravitational Wave Detection,
Recent Advances in Gravitation and Cosmology, Jamia Millia Islamia, New Delhi, 2007.
44. Gravitational waves from inspiralling compact binaries in elliptical orbits,
Gravitational wave data analysis workshop, Institut Henri Poincare, Paris, France, 2006.
45. A course of 6 lectures on
 - a.) Gravitational waves from inspiralling compact binaries in general orbits;
 - b.) Comparison of detection templates for gravitational waves from inspiralling compact binaries;
 - c.) Parameter estimation of gravitational wave chirps by using the 3.5PN phasing formula;
 GR Trimester, Institut Henri Poincarè, Paris, France, 2006.
46. Picking up strains of the gravitational wave symphony,
Einstein's Theories Centenary Conference, Mumbai 2005
47. Chairman of the Workshop on Analytical Approximation and Perturbation Methods at the 17th International Conference on General Relativity and Gravitation, Dublin, Ireland, 2004.
48. The search for Gravitational waves: Current status of selected topics,
XXII IAGRG Meeting, IUCAA, Pune, India 2002.
49. Gravitational waves from inspiraling compact binaries: PN waveforms and resummed extensions,
Focus workshop on Initial Data, State College, USA, 2002.
50. Current status of PN computations of binary inspiral,
Gravitational wave source workshop, Livingston, USA, 2002.
51. Gravitational Wave Astronomy - Probing Physics and Unravelling Astrophysics,
21st Meeting of Astronomical Society of India, IUCAA,
Pune, 2002.
52. Padé approximants for gravitational waves from inspiraling compact binaries,
JGRG-2000, Osaka, Japan (2000).
53. Second post-Newtonian gravitational wave polarisations for inspiralling compact binaries in elliptical orbits,
Rencontres de Moriond on Gravitational waves and experimental gravity, Les arcs, France, 1999.

54. Co - Chairman with Luc Blanchet of Workshop on Analytical Approximation and Perturbation Methods at the 15th International Conference on General Relativity and Gravitation, Pune, India, 1997.
55. Gravitational Radiation Reaction,
Golden Jubilee Discussion Meeting on Gravitational Waves, RRI, Bangalore, 1997.
56. Gravitational wave generation and radiation reaction for inspiralling compact binaries,
Golden Jubilee Symposium on Gravitation and Particle Physics, PRL, Ahmedabad, 1996.
57. Gravitational waves from inspiralling compact binaries,
XVIII IAGRG meeting, IMSc., Madras, 1996.
58. Joint Coordinator with K. Kokkotas of Workshop on Gravitational Waves at ICGC95,
IUCAA, Pune, 1995.
59. Gravitational Radiation Reaction,
Workshop on Gravitational Waves, IUCAA, 1995.
60. Approximation and Perturbation techniques in gravitational radiation theory,
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61. The Post Newtonian Spin Octupole Moment,
Workshop on Gravitational Waves from Coalescing Binaries, Caltech, Pasadena, 1994.
62. Lectures on Approximation Methods, Multipole Techniques and Gravitational Radiation
Damping,
Mini Workshop on Gravitational Radiation Theory, IUCAA, Pune, 1993.
63. Chairman of the Workshop on Approximation and Perturbation Methods at the 13th
International Conference on General Relativity and
Gravitation, Cordoba, Argentina, 1992.
64. Lectures on Multipole Expansion Techniques for Gravitation Radiation Problems,
Advanced Institutes on Gravitation Theory, Cochin, 1991.
65. The Generation Problem in Gravitational Radiation Theory,
Second International Conference on Gravitation and Cosmology, Ahmedabad, 1991.
66. Lectures on Killing Vectors, Symmetries, Gravitational Collapse and Compact Objects,
Silver Jubilee Institute on General Relativity and Cosmology, Mysore, 1989.
67. Black Hole Thermodynamics,
South Zone Winter School in General Relativity and Cosmology, Mysore, 1987.
68. Lectures on Quantum Field Theory in Black Hole Spacetimes,
UGC Instructional Workshop on Gravitation, Quantum Fields and Superstrings, Madras,
1986.
69. Lectures on Quantum Field Theory in Curved Spacetime: Canonical Quantisation,
UGC Instructional Workshop on Gravitation, Gauge theories and the Early Universe,
Bangalore, 1985.

70. Quantum Field Theory in Curved Spacetime: A Biased Status Report,
Annual IAGRG Meeting, Burdwan, 1985.
71. Black Holes are not forever,
Indian Academy of Sciences Meeting, Madurai, 1985.
72. Lectures on General Relativity,
Summer Institute on Relativity and Cosmology, Madurai, 1984.
73. Core-Envelope Models of Collapsed Objects,
Workshop on Gravitation and Relativistic Astrophysics, Ahmedabad, 1982.

Contributed Papers at Conferences

1. IndIGO update on LIGO-India, APS Physics April 2013 meeting, Denver.
2. The 2.5PN linear momentum flux and associated recoil from inspiralling compact binaries in quasi-circular orbits: Non-spinning case, Chandra Kant Mishra, K.G. Arun and Bala R Iyer, Relativity and Gravitation - 100 years after Einstein in Prague, June 2012.
3. Post-Newtonian prediction for the (2,2) mode of the gravitational wave emitted by compact binaries, G. Faye, S. Marsat, L. Blanchet and B. R. Iyer, 9th LISA Symposium, Paris, 21-25 May 2012.
4. Nonspinning inspiralling compact binaries in quasi circular orbits: 2.5 PN linear momentum loss and associated recoil, Chandra Kant Mishra, K.G. Arun and Bala R Iyer, 9 ICGC, Goa, Dec 2011.
5. Parametrized tests of post-Newtonian theory using Advanced LIGO and Einstein Telescope: C.K. Mishra, K.G. Arun, B.R.Iyer and B.S. Sathyaprakash, Amaldi 9, Cardiff, July 2011.
6. Parametrized tests of post-Newtonian theory using GW observations, C. K. Mishra, K. G. Arun, B. R. Iyer and B. s. Sathyaprakash, XXVI meeting of IAGRG, HRI, Allahabad, India, January 2011.
7. 5.5PN spherical harmonic modes and resummed waveforms for a particle in circular orbit around a Schwarzschild black hole, R. Fujita and B. R. Iyer, 19th International Conference on General Relativity and Gravitation, (GR19), Mexico city, Mexico, July 2010.
8. Testing post-Newtonian theory using Advanced LIGO and Einstein Telescope, C. Mishra, K.G. Arun, B.R. Iyer, and B.S. Sathyaprakash, 19th International Conference on General Relativity and Gravitation, (GR19), Mexico city, Mexico, July 2010.
9. 3PN gravitational wave polarisations from inspiralling compact binaries, Luc Blanchet, Guillaume Faye, Bala R. Iyer and Siddhartha Sinha, 7th International LISA Symposium, Barcelona, June 2008.

10. LISA as a Dark energy probe,
K.G. Arun, Bala R. Iyer, Chandrakant Mishra, B.S. Sathyaprakash, Siddhartha Sinha and Chris Van den Broeck, 7th International LISA Symposium, Barcelona, June 2008.
11. Precision Cosmology with LISA,
K.G. Arun, B. R. Iyer, B.S. Sathyaprakash, S. Sinha and C. Van den Broeck, 6th International Conference on Gravitation and Cosmology, IUCAA, Pune, Dec 2007
12. The 3PN gravitational wave luminosity from inspiralling compact binaries in eccentric orbits;
(K.G. Arun, L. Blanchet, B.R. Iyer and M.S.S. Qusailah) - XVIII International Conference on General Relativity and Gravitation (GR18), Sydney, Australia, 2007.
13. Testing post-Newtonian structure of general relativity using black hole inspirals;
(K. Arun, B. R. Iyer, M. S. S. Qusailah and B. S. Sathyaprakash) - XVIII International Conference on General Relativity and Gravitation (GR18), Sydney, Australia, 2007.
14. How higher harmonics can help LISA to see more massive binary supermassive black hole inspirals;
(K. Arun, B. R. Iyer, B. S. Sathyaprakash and S. Sinha) - XVIII International Conference on General Relativity and Gravitation (GR18), Sydney, Australia, 2007.
15. Higher signal harmonics, LISA's angular resolution and, dark energy;
(K.G. Arun, Bala R. Iyer, B.S. Sathyaprakash, Siddhartha Sinha and Chris Van den Broeck) - XVIII International Conference on General Relativity and Gravitation (GR18), Sydney, Australia, 2007.
16. Testing post-Newtonian theory with gravitational wave observations,
(K. Arun, B. R. Iyer, M. S. S. Qusailah and B. S. Sathyaprakash) - LISA: Gravitational-wave astronomy in space, RAS, London, U.K.; 2006
17. The 2.5PN gravitational wave polarisations from inspiralling compact binaries in circular orbits,
(K. G. Arun, L. Blanchet M. S. S Qusailah and B. R. Iyer) - GR XVII Dublin, Ireland, 2004.
18. The 2.5PN gravitational wave polarisations from inspiralling compact binaries in circular orbits,
(K. G. Arun, L. Blanchet and B. R. Iyer) - International Conference on Gravitation and Cosmology, Kochi, 2004.
19. Padé approximants for truncated post-Newtonian neutron star models,
(A. Gupta, A. Gopakumar, B. R. Iyer and Sai Iyer) - Numerical Relativity 2001, Krugersdorp, South Africa, 2001.
20. Effective one body search templates for gravitational waves from binary inspiral,
(T. Damour, B. R. Iyer and B. S. Sathyaprakash) - 16th International conference on General Relativity and Gravitation, Durban, South Africa, 2001.

21. Gravitation-wave phasing of compact binary systems to $7/2$ post Newtonian order,
(L. Blanchet, G. Faye, B. R. Iyer and B. Joguet) - 16th International conference on General Relativity and Gravitation, Durban, South Africa, 2001.
22. Third post-Newtonian generation of gravitational waves by binary systems: the multipole moments,
(L. Blanchet, B. R. Iyer and B. Joguet) - 15th International conference on General Relativity and Gravitation, IUCAA, Pune, 1997.
23. P-approximants and improved filters for gravitational waves from inspiralling compact binaries,
(T. Damour, B. R. Iyer and B. S. Sathyaprakash) - 15th International conference on General Relativity and Gravitation, IUCAA, Pune, 1997.
24. Second post-Newtonian gravitational radiation reaction for two body systems,
(A. Gopakumar, B. R. Iyer and Sai Iyer) - 15th International conference on General Relativity and Gravitation, IUCAA, Pune, 1997. (T. Damour, B. R. Iyer and B. S. Sathyaprakash) - Second Amaldi conference on gravitational waves, Geneva, 1997.
25. Second post newtonian gravitational radiation reaction for inspiralling compact binaries,
(A. Gopakumar, B. R. Iyer and Sai Iyer) - Second Amaldi conference on gravitational waves, Geneva, 1997.
26. Gravitational waves from inspiralling compact binaries: 2PN Evolution for general orbits,
(A. Gopakumar and B. R. Iyer) - Third International conference on Gravitation and Cosmology, IUCAA, Pune, 1995.
27. Gravitational waves from inspiralling compact binaries: Energy and angular momentum fluxes to 2PN order for general orbits,
(A. Gopakumar and B. R. Iyer) - 14th International Conference on General Relativity and Gravitation, Florence, 1995.
28. Gravitational waves from inspiralling compact binaries: 2PN Evolution of the orbital period,
(A. Gopakumar and B. R. Iyer) - Conference on Astrophysical Sources of Gravitational Waves, State College, 1995.
29. The 1PN accurate Current Octupole Moment,
(T. Damour and B. R. Iyer) - Gravitational Waves from Coalescing Binaries, Pasadena, 1994.
30. Separability of the Dirac Equation in an Extended Class of Spacetimes with Local Rotational Symmetry,
(B.R. Iyer and N. Kamran) - 13th International Conference on General Relativity and Gravitation, Cordoba, 1992.
31. Post-Newtonian Generation of Gravitational Waves : Semirelativistic Spin Moments,
(T. Damour and B.R. Iyer) - TEXAS/ESO-CERN Symposium, Brighton, 1990.

32. The Radiating Vaidya Metric in Higher Dimensional Spacetime,
(B.R. Iyer and C.V. Vishveshwara) - 12th International Conference on General Relativity and Gravitation, Boulder, 1989.
33. Scalar Perturbations of Higher Dimensional Spherical Black Holes,
(B.R. Iyer, Sai Iyer and C.V. Vishveshwara) - 12th International Conference on General Relativity and Gravitation, Boulder, 1989.
34. The Geometry of Killing Trajectories and Black Holes in Higher Dimensions,
(B.R. Iyer and C.V. Vishveshwara) - International Conference on Gravitation and Cosmology, Goa, 1987.
35. Spacetimes with Local Rotational Symmetry and the Dirac Equation,
(B.R. Iyer and C.V. Vishveshwara) - 11th International Conference on General Relativity and Gravitation, Stockholm, 1986.
36. Magnetisation of all Stationary Cylindrically Symmetric Vacuum Metrics,
(B.R. Iyer and C.V. Vishveshwara) - 10th International Conference on General Relativity and Gravitation, Padova, 1983.
37. Hawking Radiation of Scalar and Dirac Quanta from a Kerr black hole,
(B.R. Iyer and Arvind Kumar) - Einstein Centenary Symposium, Ahmedabad, 1979.

Science Outreach

1. Introduction to General Relativity, JNP Summer Program, 24 May 2017
2. The detection of Gravitational waves by LIGO, JNP Summer Program, 24 May 2017
3. Introduction to General Relativity, One day seminar on Relativity, Gravity and cosmology, Govt College, Mandya, 5 April 2017
4. The detection of Gravitational waves by LIGO, One day seminar on Relativity, Gravity and cosmology, Govt College, Mandya, 5 April 2017
5. An Introduction to General Relativity and Gravitational Waves, HBCSE, Mumbai, 1 Mar 2017
6. The top scientific breakthrough of 2016: The detection of Gravitational waves by LIGO, Science Day Lecture of TIFR Alumni Association, 28 Feb 2017
7. The long walk towards gravitational wave detection; But Right again, Albert Einstein, XIV Abdus Salam Memorial Lecture 2016-17, Jamia Milia Islamia, Delhi Jan 14, 2017
8. The detection of Gravitational waves by LIGO: The top scientific breakthrough of 2016, KAAS, VVS, Bangalore, 12 Jan 2017
9. The discovery of gravitational waves by LIGO, Christ Junior College, Bangalore, 25 Nov 2016

10. Einstein's General Relativity: From Insight to Inspiration, Christ Junior College, Bangalore, 25 Nov 2016
11. Introduction to general relativity, Ramiah University, 12 Nov 2016
12. LIGO-India: From gravitational wave detection to gravitational wave astronomy, physics dEpt, Central University of Kalburgi, 4 Nov 2016
13. Einstein's General Relativity: From Insight to Inspiration, Physics dEpt, Central University of Kalburgi, 4 Nov 2016
14. Triple golds at the centenary of general relativity, NCRA, Pune, 19 Sept 2016
15. An introduction to Gravitational waves and LIGO-India, BASE, JNP, Bangalore, 2 June 2016.
16. An Introduction to General Relativity, BASE, JNP, Bangalore, 2 June 2016.
17. LIGO-India: From Gravitational Wave Detection to Gravitational Wave Astronomy, IAPT, IISc, Bangalore 29 May 2016.
18. Einstein's General Relativity: From Insight to Inspiration, IAPT, IISc, Bangalore 29 May 2016.
19. Introducing LIGO-India, Technology Day Celebrations 2016, NAL, Bangalore 12 May 2016
20. Modelling Gravitational waves from coalescing compact binaries, Indo-French meeting on 750 GEV excess, ICTS-TIFR, Bangalore, 5 May 2016
21. LIGO-India Status, LVC Budapest Meeting Plenary, Budapest, 2 Sept 2015
22. LIGO-India: From Gravitational Wave Detection to Gravitational Wave Astronomy, at 100th year celebration of Einstein's works, BIT, Bangalore, 23 April 2016
23. Einstein's General Relativity: From Insight to Inspiration, at 100th year celebration of Einstein's works, BIT, Bangalore, 23 April 2016
24. Panel Discussion during The Future of Gravitational-Wave Astronomy, ICTS, Bangalore, 7 April 2016
25. Modeling gravitational waves from coalescing compact binaries, Phys. Dept., IISc, Bangalore, March 3 2016
26. Press meeting at JNP, Bangalore on The science of the Detection of gravitational waves, Feb 26 2016
27. Press Meet, The Universe in a New Light: Gravitational Waves Detected 100 Years after Einstein's Prediction, ICTS, Bangalore Feb 13 2016
28. LIGO-India: Towards gravitational-wave astronomy, The Universe in a New Light: Gravitational Waves Detected 100 Years after Einstein's Prediction, ICTS, Bangalore Feb 13 2016

29. Einstein's General Relativity: From Insight to Inspiration, Sacred Hearts College, Chalakudy, Feb 3, 2016
30. General Relativity: Beyond insight and elegance to observations and astronomy, Mahatma Gandhi University, Feb 2 2016
31. LIGO-India: Beyond Gravitational Wave Detection to Gravitational Wave Astronomy, Mahatma Gandhi University, Feb 2 2016
32. General Relativity: Beyond insight and elegance to observations and astronomy, CUSAT, Kochi, Feb 1 2016
33. LIGO-India: Beyond Gravitational Wave Detection to Gravitational Wave Astronomy, CUSAT, Kochi, Feb 1 2016
34. Gravitational Wave Primer, Utkal University, Bhubaneswar, Nov 16 2015
35. LIGO-India: Beyond Gravitational Wave Detection to Gravitational Wave Astronomy, Year of Light Conference, Einstein Series of Lectures (ICTS), Utkal University, Bhubaneswar, Nov 15 2015
36. Einstein's General Relativity: From Insight to Inspiration, Utkal University, Bhubaneswar, Nov 14 2015
37. The elusive GW: A GR centenary Perspective, IIA, Bangalore, 22 Oct 2015
38. LIGO-India, Beyond GW detection to GW Astronomy, JNP, Bangalore, 11 Oct 2015
39. The elusive GW: A GR centenary Perspective, TIFR, Mumbai, 8 Aug 2015
40. LIGO-India: Where do Einstein's messengers come from? IISER Thiruvananthapuram, 9 Feb 2015
41. Einstein's General Relativity: From Insight to Inspiration, IISER Thiruvananthapuram, 9 Feb 2015
42. Panel discussion on *Cultivation and spread of a scientific culture and the challenges ahead*, All India Science Congress 2014, Breakthrough Science society, 18 Oct 2014
43. The detection of gravitational waves and the two body problem in general relativity, LIGO Caltech, 19 Aug 2014
44. What is Einstein's General Relativity? ICTS outreach, Jain Univ, 13 Sept 2014
45. Panel Discussion on *Necessity of Basic Science in the present world*, *People's Science Fest*, Breakthrough Science society, KLEN College Bangalore 26 July 2014
46. LIGO-India: Inaugurating Gravitational Wave Astronomy, JNP, Bangalore, 21 May 2014
47. From Newtonian gravity to general relativity, JNP, Bangalore, 21 May 2014
48. From GW detection to GW Astronomy, IISER, Bhopal, 5 April 2014

49. LIGO-India: Locating Einstein's messengers and Inaugurating Gravitational Wave Astronomy, IISER, Bhopal 4 April 2014
50. Relativistic Gravitation: From Insight to Inspiration, IISER, Bhopal 4 April 2014
51. LIGO-India: Locating Einstein's messengers and Inaugurating Gravitational Wave Astronomy, IISER, Kolkata 22 Feb 2014
52. LIGO-India: Locating Einstein's messengers and Inaugurating Gravitational Wave Astronomy, Presidency university, 21 Feb 2014
53. LIGO-India: Locating Einstein's messengers and Inaugurating Gravitational Wave Astronomy, IIT Kharagpur 20 Feb 2014
54. LIGO-India: Locating cosmic chirps in the dark universe, Public lecture on 6 Sept during Field Theoretic Aspects of Gravity (FTAG 2013), IIT Gandhinagar, 5-8 Sept 2013.
55. Relativistic gravitation: From insight to inspiration, NIT, Surathkal (Science day celebrations), 28 Feb 2013.
56. LIGO-India : Where do Einstein's messengers come from? NIT, Surathkal (Science day celebrations), 28 Feb 2013.
57. From Relativistic Gravitation to Einstein's Messengers, Jawaharlal Nehru Planetarium, Bangalore, May 2012
58. Beyond Insight and Inspiration to Einstein's messengers, Breakthrough Society, RRI, May 2012.
59. Gravitational Waves: When Theory met Experiment, IISER, Pune, Feb 2012
60. Einstein's Theory of Gravitation and Gravitational Waves, Jawaharlal Nehru Planetarium, Bangalore, May 2011
61. The search for gravitational waves: A century of waiting, IPR, Bhat, May 2011
62. Gravitational waves: A century of waiting, Physics Dept, Bangalore University, April 2011
63. The detection of gravitational waves and the two body problem in general relativity, IHES, Bures-sur-Yvette, Oct 2010
64. Impact of Astronomy on Basic Science,
Summer Program, BASE, Jawaharlal Nehru Planetarium, June 2010.
65. Einstein's Insight: It is all about Time,
MES College, Bangalore, March 2010
66. The search for gravitational waves: Current status and future prospects,
IISc, Bangalore, Oct 2009
67. Special Relativity,
Teacher's Training programme, Jain College, Bangalore, Aug 2009

68. From backwaters of basic science to frontiers of technology: Gravitational Waves and their detection;
JCE, Mysore Oct 2007.
69. The Long Walk towards Gravitational Wave Astronomy;
Dept Of Physics, Mumbai University, Oct 2007.
70. Deciphering the universe with gravitational wave astronomy;
IIA, Sept 2007.
71. Albert Einstein's insight: Its all about time!;
Teachers Training programme, Bhagawan Mahaveer Jain College July 2006
72. From principle of relativity to nature of time: Albert Einstein's insight;
BASE, Bangalore Planetarium, June 2006
73. (i) From principle of relativity to nature of time: Albert Einstein's insight;
(ii) From principle of equivalence to nature of gravity: Albert Einstein's inspiration;
(iii) From General Relativity to Gravitational wave detectors: Albert Einstein's triumph;
Dept of Physics, NIT, Surathkal, Mar 2006
74. From General Relativity to Gravitational wave detectors: Albert Einstein's triumph;
Dept of Physics, CUSAT, Cochin, Jan 2006
75. (i) From principle of relativity to nature of time: Albert Einstein's insight;
(ii) From principle of equivalence to nature of gravity: Albert Einstein's inspiration;
Mahatma Gandhi Memorial College, Udupi, State level physics workshop, Dec 2005
76. Gravitational wave detectors: Opening a new window to the universe;
B. M. S. College, Bangalore, Dec 2005
77. From General Relativity to Gravitational wave detectors: Albert Einstein's triumph;
M. G. University, Kottayam, Nov 2005
78. Theory of relativity: Special and General;
CMS College, Kottayam, Nov 2005
79. From principle of relativity to nature of time: Albert Einstein's insight;
Catholicate College, Pathanamthitta Nov 2005
80. Special Relativity: Albert Einstein's insight;
BEL High School, Bangalore, Nov 2005
81. Special Relativity: Albert Einstein's insight;
Presidency College, Bangalore, Nov 2005
82. From principle of relativity to nature of time: Albert Einstein's insight;
Sri Jagadguru Renukacharya college of Science, Arts and Commerce, Bangalore, Sept 2005
83. Picking up strains of the gravitational wave symphony;
IISc, Bangalore, August 2005

84. The Relativity of Albert Einstein; 125 Birth Anniversary Celebration,
AIDSO and Srujana, Bangalore Aug, 2004
85. What is Special Relativity? Two Lectures;
BASE, Bangalore - May 2004
86. Gravitational Radiation, Two Lectures at the Summer School;
HRI, Allahabad - May 2004
87. Gravitational Waves: A new window to the universe; Delhi University, Physics Dept -
May, 2004
88. Introduction to General Relativity and Gravitational waves;
Dept of Physics, Jaipur university, Dec 2004
89. Albert Einstein's Insight: Special Relativity;
Breakthrough Science Society, 2nd Science Festival, Bangalore Jan 2005
90. Albert Einstein's Insight: Special Relativity;
Gyan Vani, Radio Talk, Mar 2005
91. Einstein's Spacetime
Talk on Science Day , RRI Feb 2005
92. Picking up strains of the gravitational wave symphony;
Einstein's Theories Centenary Conference, Mumbai Jan 2005
93. Two Lectures on The search for Gravitational waves;
Calicut University, Mar 2004
94. Two Lectures on General Relativity: Einstein's theory of Gravitation;
Calicut University, Mar 2004
95. Two Lectures on Special Relativity: Beyond Newton;
Calicut University, Mar 2004
96. Preparing for a Career in Physics;
Calicut University, Mar 2004
97. Two Lectures on Special Relativity;
Bangalore University, Refresher course, Dec, 2003
98. The Gravitational Wave Symphony: A New Window to the Cosmos;
Faculty Lecture, Gorakhpur university, Sept, 2003
99. Special Relativity;
BASE, May, 2003.
100. General Relativity;
BASE, May 22, 2003.
101. Introduction to general relativity;
Summer School, RRI, May 2003.

102. Gravitational radiation;
Summer School, RRI, May 2003.
103. Introduction to General Relativity;
BASE, May 2002.
104. Invitation to a new astronomy;
BASE, May 2002.
105. What will the gravitational wave detective first see?;
IIA, March, 2003.
106. Gravitation, General Relativity and Gravitational Waves;
Technion university, Durban, South Africa, 2001.
107. Picking up Strains of the Gravitational Wave Symphony;
RRI Colloquium, May 2001.
108. Gravitational Waves, (2 lectures);
BASE, Bangalore Planetarium; May, 2000.
109. Gravitational Waves;
IPA Lecture at Christ college, Bangalore, October, 1998.
110. Gravitational waves: a new window to the universe;
Dept. Of Physics, Bombay University, Mumbai; September, 1998.
111. Radiation reaction in general relativity;
Tata Institute of Fundamental Research, Mumbai; September 1998.
112. Gravitational Waves;
Bangalore Science Forum, National College, Bangalore, July 1998.
113. Gravitational wave astronomy;
Physics Department, Bangalore University, March 1997.
114. Gravitational wave astronomy: A new window to the universe;
Physical Research Laboratory, Ahmedabad, December 1996.
115. Algebraic computations in gravitational radiation theory;
Indian Institute of Astrophysics, Bangalore, January 1997.

Miscellaneous Academic Contributions

Ph.D. Students

- A. Gopakumar (TIFR), M.S.S. Qusailah (Yemen), K.G. Arun (CMI), Siddhartha Sinha, Chandrakant Mishra (ICTS-TIFR)

Post-Docs

- Kanti Jotania, Anshu Gupta, Shirang Deshingkar, Ryuichi Fujita

Teaching

- Basic Mechanics, Electromagnetic Theory, Special Relativity and Mathematical methods, Bangalore Association for Science Education, REAP Program for B.Sc. students from city colleges over weekends, Bangalore Planetarium, (1995 - 2010, 2015, 2016)
- RRI minimum on Mathematical methods, 12 Lectures on Vector and tensor analysis and elementary differential geometry, (2005).
- Reading course on General Relativity (2004).
- Reading course on General Relativity (2003).
- Reading course on General Relativity (2002).
- Basic Mechanics and Electromagnetic Theory (Physics Study Circle, MES College), 1993-95.
- Basic Mathematical Methods for Physics (RRI), 1994-95.
- Mathematical Methods for Physics (RRI), 1993-94.
- Joint Astronomy Programme of the Indian Institute of Science : Courses on General Relativity and Cosmology for Ph.D. students during the years 1988-89, 1987-88, 1986-87 and 1985-86.
- Tutor at M.Sc. level in core courses: Quantum Mechanics and Mathematical Methods, Department of Physics, University of Bombay (1976 - 1978).
- Lecturer in Physics, C.H.M. College, Bombay University (November 1979 - April 1980).
- Tutor at M.Sc. level in core courses: Quantum Mechanics and Mathematical Methods, Department of Physics, University of Bombay (1976 - 1978).

Mentoring Visiting Research Students

- Regularly mentored Visiting Research Students many of whom have gone on to do a Ph.D. T. Nithyanandan (2002), Anosh Joseph (2003), Partha Nag (2003), P. Ajith (2004), Pranesh Sundarajan (2004), R. Krishnan (2005), Deepak Khurana (2005), K. Karthik (2006), K. Karthik (2007), Aseem Rastogi (2009), Raghuvir Kasturi (2009), Anton Joe (2010) Madhusudan Raman (2011, 2012) and Sumanth Reddy (2011),

Ashok Chaudhuri (2012), Vijay Varma (2012).
Ashok Chaudhuri (2012-13), Vijay Varma (2012-13).
Seema Gorur (2013), Nikhil Mukund Menon (2013), Paritosh Varma (2013)
Soham Mukherji (2014), Nikhila Suma Bhatt (2014), Anil Tolamatti (2014-15), K. Rajaram (2014)
I have been organiser of Summer Schools in RRI in the past.

Ph.D Examiner

- For students in General Relativity and Cosmology from IUCAA (Pune University, JNU), CUSAT, Nagpur University, IISc, Bangalore, Calicut University, University of Jena and Nikhef.

Training for Researchers

- I have been involved in the **Academic** planning of various Conferences and Schools for Ph.D. Students and Research workers in the fields of General Relativity, Cosmology and Relativistic Astrophysics. I have also lectured in some of them.

Teacher Training

- I have given lectures at Refresher courses for Teachers in Bangalore.

Academic responsibilities at RRI

- Chair of the Theory group, Member of Institute Advisory Collective, Organiser Journal club, Summer School Co-Organiser, Convener Admissions, Chair 4th year Ph.D students review committee, Chair Library Committee, Coordinator REAP, Co-Organiser RRI Inhouse meeting, Coordinator RRI Minm Course on Mathematical and Numerical methods, Co-Organiser of Golden Jubilee Conferences, Member of student academic committes

External Academic responsibilities

- Member, JNU - IUCAA Academic Committee (2009 - 2013)
- Chair, IndIGO Consortium

Vision Document

- Chair of the **Gravitation and Particle Astrophysics** panel for ‘Decadal Vision Document on Astronomy and Astrophysics’, Indian Academy of Sciences, Bangalore (2004).

Referee for

- Referee for Physical Review Letters, Physical Review D, Classical Quantum Gravity General Relativity and Gravitation and Pramana
- Referee for IndoFrench, Indo-US projects Max Planck Partner Group, Netherlands Foundation for Fundamental Research on Matter: FOM

- Tenure confirmation at Univ Texas, Brownsville , USA; Syracuse UniversityUSA.
- Faculty promotions at TIFR; Saha Institute; IISER, Kolkata; IUCAA
- Faculty hiring at TIFR, HRI, IISER's, IISc, CMI, ICTS, University of Delhi, Rochester Inst of Technology (USA), NIKHEF (Holland), IIT- Gandhinagar

Member Scientific Organising Committee

- I have been on the Scientific organising committees of the following *International Conferences*:
 1. 22st International Conference on General Relativity and Gravitation, (GR22), Valencia, Spain (2019).
 2. XII Amaldi meeting, Pasadena, (2017)
 3. VIIIth ICGC meeting, Mohali (2015)
 4. 14th Marcel Grossman meeting (MG14) at Rome, (Member, International Coordinating committee) 2015.
 5. 21st International Conference on General Relativity and Gravitation, (GR21), Columbia, USA (2016).
 6. The Next Detectors for Gravitational Wave Astronomy, KITP, China 5 Apr - 8 May 2015
 7. 10th International LISA Symposium, Gainesville, USA (2014)
 8. Gravitational Wave Physics and Astronomy Workshop, Pune, India 2013
 9. 20th International Conference on General Relativity and Gravitation, (GR20), Warsaw, Poland, (Chairperson, SOC)
 10. 10th Amaldi meeting on GW, Warsaw, Poland, 2013.
 11. Astrod5, RRI, Bangalore, 2012, (Co-Chair, SOC; Chair, LOC)
 12. 13th Marcel Grossman meeting (MG13) at Stockholm, (Member, International Coordinating committee) 2012.
 13. Eighteenth International Conference on General Relativity and Gravitation, Sydney, 2007.
 14. International Conference on Gravitation and Cosmology, Kochi, 2004 (Chairman, SOC)
 15. Sixteenth International Conference on General Relativity and Gravitation, Durban, 2001.
 16. International Conference on Gravitation and Cosmology, Pune, 1995.
 17. Fourteenth International Conference on General relativity and Gravitation, Florence, 1995.
 18. International Conference on Gravitation and Cosmology, Ahmedabad, 1991
 19. International Conference on Gravitation and Cosmology, Goa, 1987
- I have been on the Scientific organising committees of the following *National Conferences, Schools and Meetings*:
 1. The Future of Gravitational-Wave Astronomy, (Co-organizer) (04 Apr - 08 Apr, 2016)

2. The Universe in a New Light: Gravitational Waves Detected 100 Years after Einstein's Prediction, (Co-organizer) (13 Feb 2016)
3. AEI-ICTS joint workshop on gravitational-wave astronomy (04 Nov - 06 Nov, 2015)
4. Summer School on Gravitational wave astronomy, ICTS-TIFR, 29 June - 10 July 2015 (Co-organizer)
5. Astronomy, Cosmology and Fundamental Physics with Gravitational Waves, CMI Silver Jubilee meeting, March 24, 2015.
6. ICTS Winter School On Experimental Gravitational-Wave Physics, RRCAT, Indore, (2013) (Co-organizer)
7. Summer School on Numerical Relativity, ICTS, Bangalore, June 2013 (Co-organizer)
8. Workshop: Interface of Numerical Relativity with Gravitational-Wave Astronomy, Neutrino Physics and High-Energy Astrophysics, ICTS, Bangalore, June - July 2013 (Co-organizer)
9. IPR meeting on LIGO-India, IPR, Bhat Feb 2012 (Organizer).
10. Workshop on Gravitational Wave Astronomy, IUCAA, Pune, Dec 2011 (Co-Organizer)
11. EGO-IndIGO meeting on Gravitational Waves, IUCAA, Pune, Nov 2011 (Co-Chair SOC)
12. IndIGO meeting on LIGO-India, HBCSE, Mumbai, Aug 2011 (Organizer)
13. Discussion meeting on Gravitational Radiation and Quantum General Relativity, RRI, Bangalore, 1997, (Joint Organiser).
14. Physics of Black holes, IISc., Bangalore, 1997.
15. XVIII meeting of the IAGRG, IISc., Madras, 1996, (Chairman).
16. Advanced Institutes on Gravitation Theory, Cochin, 1991, (Co-Director).
17. First Inter University Graduate School on Gravitation and Cosmology, Pune, 1989, (Co-Director).
18. Quantum Gravity and the Early Universe, Delhi, 1987.
19. Gravitation, Quantum Fields and Superstrings, Madras, 1986.
20. Gravitation, Gauge Theories and the Early Universe, Bangalore, 1985.
21. Summer Institute on General Relativity and Cosmology, Madurai, 1984.

Participant at the following International Conferences

1. ICTS-SAMSI Workshop, ICTS-TIFR, Bangalore, March 20 - 23 2017
2. LVC meeting, Pasadena, March 13 - 16, 2017
3. Asian-Pacific Gravitational Wave Forum, Hong Kong, 30 Sept-1 Oct 2016
4. GR21, Columbia University, 10-15 July 2016
5. LIGO Virgo Collaboration meeting, Pasadena, USA 13 Mar - 18 Mar 2016
6. LIGO Press Conference, Washington DC, 11 Feb 2016 (IndIGO representative at the GW discovery announcement)

7. 8th International Conference on Gravitation and Cosmology (ICGC) IISER-Mohali, December 2015.
8. LIGO Virgo Collaboration meeting, Budapest, Hungary 26 Aug - 03 Sept 2015
9. APS Physics April 2015 meeting, Baltimore, April 2015.
10. LIGO Virgo Collaboration meeting, Stanford University, Stanford, 25 - 28 August 2014
11. LIGO Virgo Collaboration meeting, Artemis group (Observatoire de la Nice), Nice, 17-21 March 2014
12. ICTS Winter School On Experimental Gravitational-Wave Physics, RRCAT, Indore, (2013)
13. Gravitational Wave Physics and Astronomy Workshop, Pune, India 2013
14. 20th International Conference on General Relativity and Gravitation, (GR20), and 10th Amaldi meeting on GW, Warsaw, Poland, July 2013.
15. GWIC meeting, Warsaw, Poland July 2013.
16. APS Physics April 2013 meeting, Denver, April 2013.
17. LIGO Virgo Collaboration meeting, Betheseda, Mar 2013
18. Equations of motion in relativistic gravity, Bad Honneaf, Feb 2013.
19. LIGO Virgo Collaboration meeting, Rome, Sept 2012
20. GWIC meeting, Rome, July 2012.
21. ASTROD 5 Meeting, RRI, Bangalore, July 2012
22. Relativity and Gravitation - 100 years after Einstein in Prague, Prague, June 2012
23. 7th International Conference on Gravitation and Cosmology (ICGC) Goa, December 2011.
24. Amaldi 9 and NRDA conference on Gravitational waves, Cardiff, UK, July 2011
25. GWIC meeting, July 2011.
26. 19th International Conference on General Relativity and Gravitation, (GR19), Mexico city, Mexico, July 2010.
27. Australian International Gravitational Observatory: Project Plan and benefits, Perth, Australia, Feb 2010
28. Experimental General Relativity, UWA, Perth, Australia, March 2010
29. Science without boundaries, ICTS inaugural meeting, Bangalore Dec 2009
30. First Galileo-Xu Guangqi Meeting, Shanghai, China October, 2009
31. Post Newton 2008, Jena, June 2008
32. 7th International LISA Symposium, Barcelona, June 2008.
33. 6th International Conference on Gravitation and Cosmology, IUCAA, Pune, Dec 17 - Dec 21 2007
34. Eighteenth International Conference on General Relativity and Gravitation, Sydney, 2007.
35. Gravitational wave data analysis, 2006; Institut Henri Poincare, Paris, France

36. From mathematics to numerics, 2006; Institut Henri Poincare, Paris, France
37. GR Trimester, Institut Henri Poincarè, France; 2006.
38. Seventeenth International Conference on General Relativity and Gravitation, Dublin, 2004.
39. Fifth International Conference on Gravitation and Cosmology, CUSAT, Kochi, 2004.
40. Focus workshop on Initial Data, State College, 2002.
41. Gravitational wave source workshop, Livingston, 2002.
42. Numerical Relativity 2001, Krugersdorp, 2001.
43. Sixteenth International Conference on General Relativity and Gravitation, Durban, 2001.
44. Meeting of The Japanese GRG Society, Osaka, 2000.
45. Rencontres de Moriond on Gravitational Waves, Les Arcs, 1999.
46. Fifteenth International conference on General Relativity and Gravitation, IUCAA, Pune, Dec 16 - 21, 1997.
47. Second Amaldi meeting on Gravitational Waves, CERN, Geneva, 1997.
48. Third International Conference on Gravitation and Cosmology, IUCAA, Pune, 1995.
49. 14th International Conference on General Relativity and Gravitation, Florence, 1995.
50. Astrophysical sources of Gravitational Waves, State College, 1995.
51. Workshop on Gravitational Waves from Coalescing Binaries, Caltech, Pasadena, 1994.
52. 13th International Conference on General Relativity and Gravitation, Cordoba, 1992.
53. Second International Conference on Gravitation and Cosmology, PRL, Ahmedabad, 1991.
54. TEXAS/ESO-CERN Symposium, Brighton, 1990.
55. International Conference on Gravitation and Cosmology, Goa, 1987.
56. Gravitation in Astrophysics, Cargese, 1986.
57. 11th International Conference on General Relativity and Gravitation, Stockholm, 1986.
58. Origin and History of the Early Universe, Liege, 1986.
59. International Astronomical Union General Assembly, New Delhi, 1985.
60. Einstein Centenary Symposium, Ahmedabad, 1979.

Participant at the following National Conferences and Meetings

1. XXIX IAGRG meeting, IIT, Gauhati 18-20 May 2017
2. LIGO-India: The road ahead II, IUCAA, Pune, Dec 19 - 21 2016

3. One day seminar on Gravitational waves, Ramiah University, Bangalore, 12 Nov 2016
4. LIGO-India: The road ahead, IUCAA, Pune, Aug 16 - 18 2016
5. Summer School on Gravitational-Wave Astronomy, 25 July - 5 Aug 2016
6. Observing Black Holes, iCTS-TIFR, Bangalore 17 June 2016
7. Mid year meeting of the Indian Academy of Sciences, Bangalore 1 July 2016
8. The Future of Gravitational-Wave Astronomy, (04 Apr - 08 Apr, 2016)
9. The Universe in a New Light: Gravitational Waves Detected 100 Years after Einstein's Prediction (13 Feb 2016)
10. Year of Light Conference, Utkal University, Bhubaneswar, 15 Nov 2015
11. AEI-ICTS joint workshop on gravitational-wave astronomy, ICTS, 4 - 6 Nov 2015
12. XXVIII IAGRG meeting, RRI, 18-20 March 2015
13. Astronomy, Cosmology and Fundamental Physics with Gravitational Waves, CMI 2 - 4 March 2015
14. 33rd Meeting of The Astronomical Society of India, NCRA, 17 - 20 Feb 2015
15. JVN at 75, IUCAA, July 2013
16. Workshop: Interface of Numerical Relativity with Gravitational-Wave Astronomy, Neutrino Physics and High-Energy Astrophysics, ICTS, Bangalore, June - July 2013
17. Summer School on Numerical Relativity, ICTS, Bangalore, June 2013
18. IUCAA meeting on LIGO-India, IUCAA, June 2013
19. IUCAA meeting on LIGO-India, IUCAA, Jan 2013
20. RRCAT meeting on LIGO-India, RRCAT, Jan 2013
21. IAGRG-27, Mar 2013.
22. IPR meeting on LIGO-India, IPR, Bhat Feb 2012.
23. Workshop on Gravitational Wave Astronomy, IUCAA, Pune, Dec 2011.
24. Astronomy Mega-Projects presentation, DST, Delhi, Nov 2011
25. EGO-IndIGO meeting on Gravitational Waves, IUCAA, Pune, Nov 2011.
26. IndIGO LIGO meeting on LIGO-India, IUCAA, Pune, Oct 2011
27. IndIGO meeting on LIGO-India, HBCSE, Mumbai, Aug 2011.
28. IndIGO presentation on LIGO-India, RRI, Bangalore, June 2011
29. The Indian Road-Map for Gravitational Wave Astronomy: IndIGO - ACIGA meeting on LIGO-Australia, Delhi, February 2011.
30. XXVI IAGRG meeting, Sangam: Confluence of Gravitation and Cosmology, HRI, Allahabad, India 2011
31. SERC winter school on Nuclear astrophysics and neutrino astrophysics, Calicut University, February 2010
32. Indian experimental gravitational wave effort: Scope and feasibility, IUCAA, Pune Aug 2009
33. XXIV IAGRG Meeting, Jamia Millia Islamia, New Delhi, India 2007.

34. Einstein's Theories Centenary Conference, Mumbai 2005.
35. XXIII IAGRG Meeting, IUCAA, Jaipur, India 2004.
36. XXII IAGRG Meeting, IUCAA, Pune, India 2002.
37. 21st Meeting of Astronomical Society of India, IUCAA, Pune, 2002.
38. Geometric phases in physics and foundations of quantum mechanics, IISc., Bangalore, 2001.
39. Discussion meeting on Isolated Horizons and Quantum Geometry, RRI, Bangalore, 2001.
40. Discussion meeting on Gravitational Radiation and Quantum General Relativity, RRI, Bangalore, 1997.
41. Physics of Black holes, IISc., Bangalore, 1997.
42. Golden Jubilee Discussion Meeting on Gravitation and Particle Physics, PRL, Ahmedabad, 1996.
43. XVIII meeting of the IAGRG, IMSc., Madras, 1996.
44. Workshop on gravitational collapse and cosmic censorship, IUCAA, Pune, 1995.
45. Workshop on Gravitational Waves, IUCAA, Pune, 1995
46. Mini Workshop on Gravitational Radiation, IUCAA, Pune, 1993.
47. Advanced Institutes on Gravitation Theory, Cochin, 1991.
48. First Inter University Graduate School on Gravitation and Cosmology, Pune, 1989.
49. Quantum Gravity and the Early Universe, Delhi, 1987.
50. Gravitation, Quantum Fields and Superstrings, Madras, 1986.
51. Annual meeting of IAGRG, Burdwan, 1985.
52. Gravitation, Gauge Theories and the Early Universe, Bangalore, 1985.
53. Summer Institute on General Relativity and Cosmology, Madurai, 1984.

June 15 2017