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Kamal, Md. Arif; Pal, Antara; Raghunathan VA; Rao, Madan

13 Phase behaviour of the cetyltrimethylammonium tosylate (CTAT) - water system
Pal, Antara; Mary, Rose; Raghunathan VA
*Journal of Molecular Liquids*

14 Phase behavior of phospholipid-phytosterol membranes
Kamal, Md. Arif.; Raghunathan VA

15 Modulated phases of phospholipid bilayers induced by tocopherols
Kamal, Md. Arif; Raghunathan VA

16 Effect of ring-substituted oxysterols on the phase behavior of dipalmitoylphosphatidylylcholine membranes
Kamal, Md. Arif; Raghunathan VA
*Euro. Biophys. J.*

17 Achiral bent-core azo compounds: effect of different types of linkage groups and their direction of linking on liquid crystalline properties
Nagaveni NG; Roy, Arun; Prasad, Veena

18 Galactic winds driven by cosmic-ray streaming
Uhlig M; Pfommer C; Sharma, M; Nath BB; Ensslin TA; Springel, V

19 Simulation of radiation driven winds from disc galaxies
Chattopadhyay, Indranil; Sharma, Mahavir; Nath BB; Ryu, Dongsu

20 Energy deposition profiles and entropy in galaxy clusters
Chaudhuri A; Nath BB; Manjumdar, Subhabrata

21 The roles of radiation and Ram Pressure in driving galactic winds
Sharma, Mahavir; Nath BB

22 Pulsed Radio Emission from the Fermi-LAT Pulsar J1732-3131: Search and A Possible Detection at 34.5 MHz
Maan, Yogesh; Aswathappa HA; Deshpande AA

23 Unstable m = 1 modes of counter-rotating Keplerian discs
Gulati, Mamta; Saini, Tarun Deep; Sridhar S

24 A new layout optimization technique for arrays, applied to the MWA
Beardsley AP; Hazelton BJ; Morales MF; Cappallo RC; Goeke R; Emrich D; Lonsdale CJ; Arcus W; Barnes D; Bernardi G; Bowman JD; Bunton JD; Corey, BE; Deshpande AA; deSouza L; Gaensler BM; Greenhill LJ; Herne D; Hewitt, JN; Kaplan, DL; Kasper JC; Kincaid BB; Koeing R; Kratzenberg E; Lynch MJ; McWhirter SR; Mitchell DA; Morgan E; Oberoi D; Ord SM; Pathikulangara, J; Prabu T; Remillard RA; Rogers AE E; Roshi A; Salah JE; Sault RJ; Udaya Shankar N; Srivani KS; Stevens J; Subrahmanyan R; Tingay SJ; Wayth RB; Waterson M; Webster RL; Whitney AR; Williams A; Williams CL; Wyithe JSB
*Monthly Notices of the Royal Astronomy Society*

25 A new layout optimization technique for interferometric arrays and the final MWA antenna layout
Beardsley AP; Deshpande AA; Prabu T; Udaya Shankar N; Srivani KS; Subrahmanyan R
*Monthly Notices of the Royal Astronomy Society*

26 Single-pulse analysis of PSR B1133+16 at 8.35 GHz and carousel circulation time
Honnappa, Sneha; Lewandowski, Wojciech; Kijak, Jaroslaw; Deshpande AA; Gil, Janusz; Maron, Olaf; Jessner, Axel

27 Neutrinos from Decaying Muons, Pions, Kaons and Neutrons in Gamma Ray Bursts
Moharana, Reetanjali; Gupta, Nayantara
28 Spectrum and ionization rate of low energy Galactic cosmic rays
Nath BB; Nayantara, Gupta; Peter L Biermann
*Monthly Notices of the Royal Astronomy Society*

29 Counter-rotating stellar discs around a massive black hole: self-consistent, time-dependent dynamics
Jihad Touma R; Sridhar S
*Monthly Notices of the Royal Astronomy Society, 423, 2083, 2012*

30 Mean field dynamo action in renovating shearing flows
Kolekar S; Subramanian K; Sridhar S
*Physical Review E, 86, 026303, 2012*

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**In Conference Proceedings**

1. OH Maser sources in W49N: probing differential anisotropic scattering with Zeeman pairs
Deshpande AA; Goss WM; Mendoza-Torres JE
*Proceedings IAU Symposium No. 287, 2012, Cosmic masers - from OH to H0*

2. Binary systems: implications for outflows & periodicities relevant to masers
Singh, Nishant K; Deshpande AA
*Proceedings IAU Symposium No. 287, 2012, Cosmic masers - from OH to H0*

3. Unique collections at Raman Research Institute Library: a case study
Benegal, Vrinda
*National Conference Soference-2011, Tata Consultancy Services, Bangalore, 15 October 2011*

4. Open access digital institutional repository of Raman Research Institute
Benegal, Vrinda
*57th All India Library Conference Proceedings, St. Agnes Centre for Post Graduate Studies and Research, Mangalore, 23-25 February 2012; ISBN: 81-85216-45-6*

5. Digital information services and products: a case of Raman Research Institute, Bangalore Meera BM; Manjunath M; Savanur, Kiran
*National seminar on Content Management and Libraries: new vistas for harnessing information, Kerala Library Association, 14 – 16 July 2011*

6. Imprints collection: a cyberscholarship of RRI
Meera BM; Savanur, Kiran; Manjunath M
*Soference 2011: a social conference, Tata Consultancy Services, 15 October 2011*

7. H-index as research performance indicator: a study at Raman Research Institute
Meera BM
*National Workshop on using different metrics for assessing research productivity by Indian Statistical Institute, New Delhi, 16 – 17 February 2012*

8. Tuning the amphiphile-DNA condensate structure with strongly binding counterions
Radhakrishnan AV; Ghosh, Sajal; Pabst, Georg; Raghunathan VA; Sood, Ajay
*Proc. Natl. Acad. Sci., 2012*

9. SU(2) gauge theory of gravity with topological invariants
Sengupta, Sandipan
*J. Phys.: Conf. Ser. 360, 012024, 2012*

**Book chapters**

1. Methods to reduce power consumption of liquid crystal displays
Chapter in the book Progress in LC Science and Technology, in Honor of Prof Kobayashi 80th Birthday
Ruckmongathan TN
*World Scientific Publishing Co. (WSPC) under the Liquid Crystal Book Series around Q3/2012*

2. Directions in Causal Set Quantum Gravity
Surya, Sumati

3. Chemistry of Columnar Liquid Crystals in Liquid Crystalline Semiconductors
Kumar, Sandeep
*Canopus Academic Publishing Ltd., Bristol, UK.*

* * denotes co-authors who do not belong to RRI
+ denotes Visiting Professors of RRI
## APPENDIX 2

### Conferences attended

<table>
<thead>
<tr>
<th>Name</th>
<th>Conferences attended / Institutions visited</th>
<th>Title of paper / talk</th>
</tr>
</thead>
</table>
| Abhishek Dhar | Workshop on Fourier Law  
Field’s Institute, Toronto  
4 – 8 April 2011  
Workshop on Foundations and Applications of Non-equilibrium Statistical Mechanics  
Nordic Institute for Theoretical Physics  
Stockholm  
19 – 30 September 2011  
Rutgers University, USA  
1 – 12 October 2011  
Tokyo University, Japan  
14 – 26 October 2011  
International Centre for Theoretical Sciences, Bangalore  
14 November 2011  
Conference on Concepts and Challenges in Astronomy and Astrophysics  
Sundarban Mahavidyalaya, West Bengal  
24 – 25 November 2011 | Heat conduction in disordered harmonic lattices with energy conserving noise (invited)  
Current fluctuations and large deviation functions in heat transport (invited)  
Current fluctuations and large deviation functions in heat transport  
Brownian motion (invited) |

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**Note:** The table above outlines the conferences attended by Abhishek Dhar along with the titles of the papers or talks he presented at these conferences.
DST-SERC School on Nonlinear Dynamics
Indian Institute of Science Education and Research, Pune
19 – 23 December 2011

ICTS school on Nonequilibrium Physics
Indian Institute of Science Education and Research, Kolkata
3 – 4 January 2012

6th International Conference on Unsolved Problems on Noise and Fluctuations
Saha Institute of Nuclear Physics, Kolkata
20 – 24 February 2012

TIFR-CAM, Bangalore
20 March 2012

School on Statistical Physics
Raman Research Institute Bangalore
26 March – 7 April 2012

Anagha Datar
Tata Institute of Fundamental Research, Mumbai
November 2011

Indian Institute of Science Education and Research, Pune
20 – 26 February 2012

Andal Narayanan
Indian Institute of Science Education and Research, Pune
28 March – 15 April 2011

University of Calgary, Canada
August 2011 – July 2012

Anirban Polley
Conference on Dynamics of Phase Transformations
Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore
28 – 30 November 2011

Conference on An Interdisciplinary Approach to Soft Matter and Biological Physics
Indian Association for the Cultivation of Science, Kolkata
2 – 3 December 2011
Annual Meet  
National Centre for Biological Sciences  
Bangalore  
2 – 3 January 2012

JAKS School: Unifying Concepts in Materials  
Jawaharlal Nehru Centre for Advanced  
Scientific Research and National Centre for  
Biological Sciences, Bangalore  
30 January – 8 February 2012

School on Statistical Physics  
Raman Research Institute, Bangalore  
26 March – 7 April 2012

Anjan Roy  
ICTS School on Random Matrix Theory and Applications  
Indian Institute of Science, Bangalore  
17 January – 1 February 2012

3rd School on Statistical Physics  
Raman Research Institute, Bangalore  
26 March – 7 April 2012

Arnab Pal  
ICTS International School on Topology in Quantum Matter  
Indian Institute of Science, Bangalore  
29 June – 13 July 2011

ICTS International School and Conference on Random Matrix Theory  
Indian Institute of Science, Bangalore  
17 January – 1 February 2012

3rd School on Statistical Physics  
Raman Research Institute, Bangalore  
26 March – 7 April 2012

Arun Roy  
National Conference on Materials for Advanced Technology, Gwalior  
27 – 29 February 2012

Aciral fluid lamellar phases with triclinic symmetry (invited)

Avinash BS  
Kyushu Institute of Technology, Japan  
12 November 2011

Avinash Deshpande  
Radio Astronomy School 2011  
National Centre for Radio Astronomy, Pune  
3 – 6 July 2011

Antennas and receivers (2 lectures)
<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Location</th>
<th>Topic</th>
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<tr>
<td>The URSI GA and Scientific Symposium of International Union and Radio</td>
<td>13 – 20 August 2011</td>
<td>Turkey</td>
<td>RRI-GBT multi-band receiver and pulsar emission cone tomography</td>
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<tr>
<td>Science, Turkey</td>
<td></td>
<td></td>
<td>1. OH maser sources in W49N: probing differential anisotropic scattering with Zeeman pairs</td>
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<tr>
<td>IAU Symposium 2012 Cosmic Masers – from OH to H0</td>
<td>29 January – 3 February 2012</td>
<td>Stellenbosh, South Africa</td>
<td>2. Binary systems: implications for outflows and periodicities relevant to masers</td>
</tr>
<tr>
<td>SKA-SA, South Africa</td>
<td>4 – 11 February 2012</td>
<td></td>
<td>1. Radio frequency interference: to avoid or attack</td>
</tr>
<tr>
<td>Biman B Nath</td>
<td>Max Planck Institut for Astrophysics</td>
<td>Garching</td>
<td>2. The 4 Cs: coherence, correlation, convolution, calibration</td>
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<td></td>
<td>19 March – 15 June 2011</td>
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<tr>
<td>Instut Astrophysique de Paris, France</td>
<td>21 – 23 April 2011</td>
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<tr>
<td>University of Leiden, The Netherlands</td>
<td>2 – 4 May 2011</td>
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<tr>
<td>Scuola Normale Superiore of Pisa, France</td>
<td>23 – 24 May 2011</td>
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<tr>
<td>Nehru Planetarium, New Delhi</td>
<td>26 July 2011</td>
<td></td>
<td>Stars in the hood; the story of our neighbourhood stars</td>
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<tr>
<td>Astrophysics Seminar</td>
<td>8 August 2011</td>
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<td>Indian Institute of Science</td>
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<tr>
<td>Galaxy Forum 2012</td>
<td>9 August 2011</td>
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<td>Our universe (invited)</td>
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<tr>
<td>Jawaharlal Nehru Planetarium</td>
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<tr>
<td>IIA Theoretical Astrophysics Group Mini Workshop on Cosmology &amp;</td>
<td>28 November 2011</td>
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<td>Galactic winds and the intergalactic medium (invited)</td>
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<td>Galaxies</td>
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<tr>
<td>Conference on Dust in Astrophysics</td>
<td>31 January – 2 February 2012</td>
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<td>Dust driven outflows from galaxies (invited)</td>
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<td>Assam University</td>
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National Space Science Symposium
Sri Venkateswara University, Tirupati
14 – 17 February 2012

Biswajit Paul
Be X-ray Binaries Workshop
University of Valencia Spain
11 – 14 July 2011

Conference on Exploring the COSMOS
North Bengal University, Darjeeling
15 – 16 December 2011

Astrosat Workshop
Indian Institute of Space Science and Technology, Trivandrum
9 – 12 January 2012

Advanced Workshop on X-ray Timing
Inter University Centre for Astronomy & Astrophysics, Pune
23 – 28 January 2012

Winter School on High Energy Astrophysics:
Accretion onto compact objects
Harishchandra Research Institute
Allahabad
6 – 18 February 2012

Conference on Advances in Astroparticle Physics and Cosmology 2012, Darjeeling
7 – 12 March 2012

Chaitra Shreepad Hegde
School on Topology and Quantum Matter
Indian Institute of Science, Bangalore
29 June – 13 July 2011

School on Random Matrix Theory
Indian Institute of Science, Bangalore
17 January – 1 February 2012

School on Statistical Physics
Raman Research Institute, Bangalore
26 March – 7 April 2012

Cosmology – recent advances and challenges ahead

1. Quasi periodic oscillations in high magnetic field accretion powered pulsars (two lectures)
2. Intensity and energy dependent profiles of transient HMXB pulsars
3. Orbital evolution and apsidal motion of HMXBs

An overview of neutron stars

1. An overview of Astrosat
2. Fundamentals of X-ray Timing Analysis

1. Astrosat LAXPC
2. X-ray timing with LAXPC

X-ray Binaries (series of lectures)

High Energy Astrophysics with Astrosat and ongoing projects for future missions
Chandrakant Mishra  7th International Conference on Gravitation and Cosmology, Goa  
14 – 19 December 2011  
Nonspinning inspiralling compact binaries in quasi-circular orbits

Chandreyee Maitra  Advanced Workshop on X-ray timing  
Inter University Centre for Astronomy & Astrophysics, Pune  
23 – 28 January 2012  
Pulse phase resolved spectroscopy of HMXB accretion powered pulsars

Winter School on High Energy Astrophysics Symposium  
Harishchandra Research Institute, Allahabad  
18 February 2012  
Pulse phase resolved spectroscopy of HMXB accretion powered pulsars

Debasish Saha  International Workshop on Soft Matter Chemistry, Raman Research Institute, Bangalore  
9 – 11 November 2011  

International Conference on Dynamics of Phase Transition  
Jawaharlal Nehru Centre for Advanced Research, Bangalore  
28 – 30 November 2011  
Caging dynamics in colloidal glasses of laponite

SERC School and National Symposium on Rheology and Complex Fluids  
Indian Institute of Technology, Guwahati  
3 – 7 January 2012  
Caging dynamics in colloidal glasses of laponite

IUTAM Symposium on Mobile Particulate Systems  
Hotel Lalith Ashok, Bangalore  
23 – 27 January 2012  
Caging dynamics in colloidal glasses of laponite

Deepak Pandey  University of Pisa, Italy  
17 – 21 June 2011  
Quantum walk of light in frequency space and its controlled dephasing

Institut d’Optique, France  
22 June – 21 July 2011  
Implementation of quantum algorithms and quantum logic gates using ultracold atom and light

University of Basel, Switzerland  
15 – 18 July 2011  

Dhason A  17th National Seminar of ISSG ‘Glass moulds/devices for chemical analysis in NR industry’  
Rubber Research Institute of India, Kerala  
2 – 3 May 2011  
1. A versatile multifunctional glass adapter for use in chemistry laboratories  
2. Structure of glass and how does it break
<table>
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<tr>
<th>Name</th>
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<th>Location</th>
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<tr>
<td>Dwarakanath KS</td>
<td>The Path to SKA-low Workshop</td>
<td>International Centre for Radio Astronomy Research, Western Australia</td>
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<td></td>
<td>Cluster halos and relics at low frequencies</td>
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<td>– current status and future prospects</td>
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<tr>
<td></td>
<td>(invited)</td>
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<tr>
<td>National Center for Radio Astrophysics</td>
<td>Current activities and future plans in low-frequency astronomy</td>
<td>Pune</td>
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<td>10 November 2011</td>
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<td>Geetha S</td>
<td>Panel Discussion on Challenges ahead of librarians in serving its readers</td>
<td>Tripuravasini Auditorium, Bangalore</td>
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<td>Conference Infovision 2011 – Data for Differentiation</td>
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<td>Infosys, Bangalore</td>
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<td>24 September 2011</td>
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<td>Girish BS</td>
<td>The Path to SKA-low Workshop</td>
<td>International Centre for Radio Astronomy Research, Western Australia</td>
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<td>A 144-element receiver system for the RRI AA demonstrator</td>
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<tr>
<td>The SKA India Meet 2011</td>
<td>Analog receiver systems for ORT upgrade – the road traversed</td>
<td>National Centre for Radio Astronomy, Pune</td>
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<td>10 – 11 November 2011</td>
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<td>Radio Astronomy Centre, Ooty</td>
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<td>Hema Ramachandran</td>
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<td>Tata Institute of Fundamental Research</td>
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<td>Quantum walks</td>
<td>Mumbai</td>
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<td>Atoms and light performing quantum walks</td>
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<td>The classical analogue of the non-local Aharanov-Bohm effect</td>
<td>University of Hyderabad, Hyderabad</td>
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<td>Brain computer interfaces</td>
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<td>Faculty Development Program on Cognitive Science and Brain Computer Interface</td>
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<td>M.S. Ramaiah Institute of Technology</td>
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<td>Bangalore</td>
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SERC School on Laser Physics and Technology  
Raja Ramanna Centre for Advanced Technology, Indore  
28 March 2012

Iyer BR  
Bangalore University, Bangalore  
19 April 2011

Institute for Plasma Research, Ahmedabad  
2 May 2011

Jawaharlal Nehru Planetarium, Bangalore  
31 May 2011

Annual GWIC Meeting  
Cardiff University, United Kingdom  
10 July 2011

Cardiff University, United Kingdom  
1 - 15 July 2011

Amaldi 9  
Cardiff University, United Kingdom  
13 - 17 July 2011

Indian Institute of Science, Bangalore  
18 August 2011

Hind High Vacuum, Bangalore  
18 August 2011

IndIGO Meeting on LIGO-India  
Homi Babha Centre for Science Education  
Mumbai  
19 August 2011

Institute for Plasma Research, Ahmedabad  
17 August 2011  
19 October 2011

Tata Institute of Fundamental Research  
Mumbai  
19 August 2011  
20 October 2011

Raja Ramanna Centre for Advanced Technology, Indore  
23 August 2011  
1 - 3 March 2012

Light in random media

Gravitational waves: A century of waiting

The search for gravitational waves: a century of waiting

Einstein’s Theory of Gravitation and Gravitational Waves, I, II

The case for IndIGO membership of GWIC (invited)

Parametrized tests of post-Newtonian theory using Advanced LIGO and Einstein Telescope

IndIGO and LIGO-India
<table>
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<tr>
<th>Event</th>
<th>Location</th>
<th>Date</th>
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<tr>
<td>EGO-IndIGO meeting on GW</td>
<td>Inter University Centre for Astronomy &amp; Astrophysics, Pune</td>
<td>1 – 2 November 2011</td>
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<td>Astronomy Mega-Projects under XIIth Plan Meeting</td>
<td>Department of Science and Technology</td>
<td>21 November 2011</td>
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<td>Mid-Term Review Meeting</td>
<td>Indo French Centre for Promotion of Advanced Research (CEFIPRA), Udaipur</td>
<td>22 November 2011</td>
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<td>9th International Conference on Gravitation and Cosmology, Goa</td>
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<td>14 – 19 December 2011</td>
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<tr>
<td>ICTS Workshop on Gravitational Waves</td>
<td>Inter University Centre for Astronomy &amp; Astrophysics, Pune</td>
<td>20 – 22 December 2011</td>
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<td>Karnataka State Disaster Management Centre, Bangalore</td>
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<td>30 December 2011</td>
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<tr>
<td>IndIGO meeting on LIGO-India</td>
<td>Institute for Plasma Research, Ahmedabad</td>
<td>3 February 2012</td>
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<tr>
<td>Indian Institute of Science Education and Research, Pune</td>
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<td>14 February 2012</td>
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<tr>
<td>Inter University Centre for Astronomy &amp; Astrophysics, Pune</td>
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<td>1 – 2 April 2011</td>
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<td>22 – 23 September 2011</td>
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<td>6 – 8 October 2011</td>
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<td>21 – 22 October 2011</td>
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<td>13 February 2012</td>
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<td>4 – 6 March 2012</td>
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<td>17 March 2012</td>
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<td>18 – 24 March 2012</td>
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</table>

**IndIGO and LIGO-India, Introductory remarks (invited)**

- **Gravitational waves from binary black holes**
  - mid term report

- **Nonspinning inspiralling compact binaries**
  - in quasi circular orbits: 2.5 PN linear momentum loss and associated recoil

- **LIGO-India: current status (invited)**

- **LIGO-India: current status**

- **Gravitational waves: when theory met experiment**
<table>
<thead>
<tr>
<th>Name</th>
<th>Location/Event</th>
<th>Topic</th>
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<tbody>
<tr>
<td>Jacob Rajan</td>
<td>National Workshop on Cloud Computing, Centre for Development of Advanced Computing, Knowledge Park. 21 May 2011</td>
<td>The nonlocal Pancharatnam phase</td>
</tr>
<tr>
<td>Joseph Samuel</td>
<td>Chennai Mathematical Institute, Chennai, 16 – 17 August 2011</td>
<td>Indian Institute of Science Education and Research, Trivandrum, 3 – 8 January 2012</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The nonlocal Pancharatnam phase in two photon interferometry</td>
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<tr>
<td></td>
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<td>Indian Institute of Science, Bangalore, 12 January 2012</td>
</tr>
<tr>
<td>Jyothi S</td>
<td>3rd International Conference on Current Developments in Atomic, Molecular, Optical and Nano Physics 2011, University of Delhi, 14 – 16 December 2011</td>
<td>Cavity mode emission from cold trapped atoms</td>
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<tr>
<td>Kanhaiya Lal Pandey</td>
<td>ASI Symposium (ICCGF), Indian Institute of Science Education and Research, Mohali, 5 November 2011</td>
<td>Constraints on primordial magnetic fields using cosmic shear statistics</td>
</tr>
<tr>
<td>Karthik HS</td>
<td>International Workshop on Quantum Information, Harishchandra Research Institute, Allahabad, 20 – 26 February 2012</td>
<td>Classical uncertainties</td>
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<tr>
<td>Lakshminarayanan V</td>
<td>Oracle Science Foundation Talk, BGS National Public School, Bangalore, 10 June 2011</td>
<td>Seeing atoms and molecules (invited)</td>
</tr>
<tr>
<td></td>
<td>12th IDE-NICE Conference, Dezaifu, Japan, 20 October 2011</td>
<td>Electrical conductivity studies on discotic liquid crystals and composites</td>
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<tr>
<td></td>
<td>Graduate School of Biological and Life Sciences, Kyushu Institute of Technology, Japan, 24 October 2011</td>
<td>Electrochemistry of nanomaterials for biosensors and catalysis (invited)</td>
</tr>
</tbody>
</table>
International Workshop on Soft Matter Chemistry
Raman Research Institute
10 November 2011

1. Physics Convention
2. Convergence in Chemistry
Sri Sathya Institute of Higher Learning, Prasanthi Nilayam, Bangalore
1. 6 August 2011
2. 28 November 2011

Central Electrochemical Research Institute
Karaikudi
7 – 8 February 2012

First International Symposium on Physics and Technology of Sensors
Centre for Materials for Electronics Technology, Pune
7 March 2012

UGC Faculty Improvement Programme
Bangalore University, Bangalore
14 March 2012

Laxmi Kishore Sagar
International Workshop on Soft Matter Chemistry
Raman Research Institute
9 – 11 November 2011

Electrochemical studies in self-organized soft matter systems \textit{(invited)}

1. Electrochemistry of nanomaterials for biosensors \textit{(invited)}
2. Disc like liquid crystals for molecular electronics and photonic applications \textit{(invited)}

Lakshmi Saripalli
Netherlands Institute for Radio Astronomy
The Netherlands
1 September–30 November 2011

Radboud Universiteit, The Netherlands
8 November 2011

LOFAR Magnetism Key Science Project Workshop
Istituto di Radioastronomia, Bologna
24 – 25 November 2011

University of Western Australia, Australia
30 January – 29 February 2012

On growth and form: radio galaxy morphologies and the ATLBS radio continuum survey

Towards probing AGN lifecycles: Radio galaxy morphologies and the ATLBS radio continuum survey

Aspects of radio galaxies and lifecycles \textit{(invited)}
<table>
<thead>
<tr>
<th>Name</th>
<th>Event</th>
<th>Title</th>
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<tbody>
<tr>
<td>Madhavan Varadarajan</td>
<td>Loops 11CSIC, Spain, 23 – 28 May 2011</td>
<td>The diffeomorphism constraint in loop quantum gravity</td>
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<td></td>
<td>St. Stephen’s College, New Delhi, 21 – 28 October 2011</td>
<td>Towards a consistent quantum dynamics for canonical loop quantum gravity</td>
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<td>7th International Conference on Gravitation and Cosmology, Goa, 14 – 19 December 2011</td>
<td>Galactic winds</td>
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<td>Mahavir Sharma</td>
<td>Indian Conference on Cosmology and Galaxy Formation 2011, 5 November 2011</td>
<td>1. T-shaped unsymmetrical azoester based substituted biphenyl</td>
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<td></td>
<td>Indian Institute of Science Education and Research, Mohali</td>
<td>2. Hexasubstituted truxene with branched alkyl peripheral spacers</td>
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<td>5 November 2011</td>
<td>T-shaped unsymmetrical azoester based mesogenic dimers</td>
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<td>Raman Research Institute</td>
<td>North-eastern Regional Institute of Science and Technology, Itanagar</td>
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<td>9 – 11 November 2011</td>
<td>15 – 17 November 2011</td>
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<td></td>
<td>Kerala Library Association</td>
<td>Institute for Management Development Mysore, 27 February – 1 March 2012</td>
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<td>14 – 16 July 2011</td>
<td>Winter School on Astroparticle Physics, Bose Institute, Kolkata, 17 – 29 December 2011</td>
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<td>Mayuri S</td>
<td>Winter School on Astroparticle Physics, Bose Institute, Kolkata, 17 – 29 December 2011</td>
<td>Advanced Workshop on X-ray Timing, Inter University Centre for Astronomy &amp; Astrophysics, Pune, 23 – 28 January 2012</td>
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Winter School on High Energy Astrophysics
Harishchandra Research Institute
Allahabad
6 – 18 February 2012

Meena MS
Apex Technical Seminar Cirrus Logic/Apex Microtechnology, Bangalore
19 September 2011

Conference NlDays 2011
Nimhans Convention Center, Bangalore
14 October 2011

Technical Seminar ADWTS 2012
Agilent Technologies, Bangalore
17 April 2012

Meera BM
National Seminar on Content Management and Libraries: new vistas for harnessing information
Kerala Library Association
Thiruvananthapuram
14 – 16 July 2011

SoFerence 2011
Tata Consultancy Services, ITPL, Bangalore
15 October 2011

NKRC Nodal Officers Meeting
National Institute of Oceanography, Goa
18 – 20 October 2011

Workshop on Open Access to Academic Research
Indian Institute of Science, Bangalore
2 November 2011

National Workshop on using different metrics for assessing research productivity
Indian Statistical Institute, New Delhi
16 – 17 February 2012

Nagaraj MN
Workshop on Training on Content Management using Open Source Tool-Drupal
National Aerospace Laboratories, Bangalore
19 – 21 April 2011

Digital Information services and products: a case of Raman Research Institute

Imprints collection: a cyberscholarship of RRI

H-Index as research performance indicator: A study at Raman Research Institute
National Conference on Information Literacy Competencies for Higher Learning and Research
Tumkur University, Tumkur
21 – 22 October 2011

Workshop on SPSS for Data Analysis
Mangalore University, Mangalore
19 November 2011

Nazma Islam Syeda
Advanced Workshop on X-ray Timing
Inter University Centre for Astronomy & Astrophysics, Pune
23 – 28 January 2012

Winter School on High Energy Astrophysics Symposium
Harish Chandra Research Institute
Allahabad
18 February 2012

Nithyanandan Thyagarajan
Bi-annual MWA Project Meeting
University of Melbourne, Australia
5 – 8 December 2011

Workshop on MWA Data Analysis
Australia National University, Australia
7 – 9 February 2012

Curtin University, Australia
14 February 2012

Prabu T
MWA Meeting
Massachusetts Institute of Technology, USA
7 June 2011

CASPER Workshop 2011
National Centre for Radio Astrophysics
Pune
13 – 14 October 2011

Bi-annual MWA Project Meeting
University of Melbourne, Australia
7 – 8 December 2011

Pragya Srivastava
Annual Meet
National Centre for Biological Sciences
Bangalore
2 – 3 January 2012

Implementation of Library 2.0 technology to information literacy
Effect of variability of X ray binaries on X-ray luminosity functions for our galaxy
A study of foreground contamination in the EoR window
Digital receiver enhancements – a status update
1. MWA digital receiver development at RRI
2. FPGA based projects at RRI – a review
1. Digital receiver – an update
2. Thoughts on commissioning the MWA digital receiver
Patterns of actin filaments on cylindrical and spherical geometries: asters, helices, rings
JAKS School: Unifying Concepts in Materials
Jawaharlal Nehru Centre for Advanced Scientific Research and National Centre for Biological Sciences, Bangalore
30 January – 8 February 2012

Patterns of active polar filaments in curved geometries

S. Pramod Pullarkat
NUS-NCBS Collaboration Exploration Meeting
National Centre for Biological Sciences
Bangalore
13 April 2011

A novel optical fiber based force apparatus

Conference on Mathematics and Physics of Soft and Biological Matter
International Centre for Theoretical Physics
Italy
9 – 13 May 2011

Active mechanics of axons

University of Freiburg, Germany
14 – 20 May 2011

Technical University, Munich
18 May 2011

Active mechanics of axons

International Conference on Mathematical and Theoretical Biology
Indian Institute of Science Education and Research, Pune
23 – 27 January 2012

Mechanics of living matter

Prasad VV
School on Random Matrix Theory and Applications
Indian Institute of Science, Bangalore
17 January – 1 February 2012

JAKS School: Unifying Concepts in Materials
Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore
30 January - 5 February 2012

School on Statistical Physics
Raman Research Institute
26 March – 7 April 2012

Pratibha R
International Workshop on Soft Matter Chemistry
Raman Research Institute
9 – 11 November 2011

Glassy nature of the dark conglomerate liquid crystalline phase (invited)
Layer structure stabilized gold nanosphere - smectic liquid crystal colloids (invited)

Time-resolved spectroscopy of femtosecond laser-induced carbon plasma in the rough, medium and high vacuum regimes

Polymorphism of two-dimensional crystals of oppositely charged cylindrical macroions

A novel phase of amphiphile bilayers (invited)

Electrostatic self-assembly of oppositely charged macroions (invited)

A defect-mediated lamellar to isotropic transition of amphiphile bilayers (invited)

A disordered phase of surfactant bilayers

Effect of anionic surfactant on the jamming behavior of triblock copolymer system

Mustard seeds shaken hard: a segregation phenomenon in a vibrated quasi two-dimensional granular column (invited)
University of Tokyo, Japan  
18 October 2011  
Experiments on aging soft colloidal glasses and rising Brazil nuts

Toyohashi Institute of Technology, Japan  
20 October 2011  
Experiments on aging soft colloidal glasses and rising Brazil nuts (invited)

International Workshop on Soft Matter Chemistry  
Raman Research Institute  
11 November 2011  
Rise of an intruder in a quasi 2D granular column is driven by granular convection

Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore  
30 November 2011  
Rising Brazil nuts in a quasi two-dimensional granular column: dynamics of phase transformations (invited)

Bose Institute, Kolkata  
3 January 2012  
Convection-driven rise of an intruder in a quasi two-dimensional granular bed (invited)

SERC School-cum-Symposium on the Rheology of Complex Fluids  
Indian Institute of Technology, Guwahati  
6 January 2012  
Rizing Brazil nuts in a quasi two-dimensional granular column: dynamics of phase transformations (invited)

Indian Institute of Science, Bangalore  
1 February 2012  
Scaling behavior in convection-driven Brazil nut effect: contemporary issues in condensed matter science (invited)

Maharani Lakshmi Ammanni College  
Bangalore  
6 March 2012  
How so soft materials move when pushed really hard (invited)

Ravi K  
Conference on New Trends in Quantum Matter with Cold Atoms and Molecules  
Instituto de Fisica de Sao Carlos, Brazil  
4 – 14 April 2011  
An experimental setup to study ion-atom processes

Institut d’ Optique, France  
6 January 2012  
Collisional cooling of ions by cold atoms in a combined trap

Conference on Physics with Trapped Charged Particles  
Ecole de Physique des Houches, France  
9 – 20 January 2012  

Universitat Basel, Switzerland  
21 January 2012  

Institut fur Physik, Germany  
21 January – 4 February 2012  

<table>
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<tr>
<th>Event</th>
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<tbody>
<tr>
<td>Max-Planck-Institut fur Kernphysik, Germany</td>
<td>2 February 2012</td>
<td>Cooling of rubidium ions by cold Rubidium atoms in a combined trap</td>
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<tr>
<td>Universitat Ulm, Germany</td>
<td>3 February 2012</td>
<td>Cooling of rubidium ions by cold Rubidium atoms in a combined trap</td>
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<td>Ravi Subrahmanyan</td>
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<td>Extragalactic low surface brightness radio sky</td>
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<td>MWA Meeting</td>
<td>Massachusetts Institute of Technology, USA</td>
<td>5 – 8 June 2011</td>
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<td>Pentiction Workshop on Novel Telescopes for 21cm Cosmology</td>
<td>Dominion Radio Astrophysical Observatory Canada</td>
<td>13 – 16 June 2011</td>
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<td>The URSI GA and Scientific Symposium of International Union and Radio Science Turkey</td>
<td>13 – 20 August 2011</td>
<td>1. Long wavelength radio science <em>(invited)</em></td>
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<td>2. The Murchison Widefield Array</td>
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<td>MWA Project Meeting</td>
<td>University of Melbourne</td>
<td>The Murchison Widefield Array <em>(invited)</em></td>
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<td>SKA ANZ Meeting 2012</td>
<td>New Zealand</td>
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<td>13 – 16 February 2012</td>
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<td>University of Western Australia, Australia</td>
<td>February 2012</td>
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<td>Curtin University, Australia</td>
<td>February 2012</td>
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<td>Ruckmongathan TN</td>
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<td>SID Symposium 2011</td>
<td>Society for Information Display, USA</td>
<td>15 – 20 May 2011</td>
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<tr>
<td>EUROIDISPLAY, International Display Research Conference</td>
<td>Ecole Polytechnique, France</td>
<td>Bit slice addressing and multi-bit slice addressing of AMLCD <em>(invited)</em></td>
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<tr>
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<td>Bit slice addressing and multi-bit slice addressing of AMLCD <em>(invited)</em></td>
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International Conference on Luminescence and its Applications
Rajiv Gandhi University of Knowledge Technologies, Hyderabad
7 – 10 February 2012

Sadiqali Rangwala
Conference on New Trends in Quantum Matter with Cold Atoms and Molecules
Instituto de Fisica de Sao Carlos, Brazil
4 – 14 April 2011

EGO-IndIGO Meeting on GW
Inter University Centre for Astronomy & Astrophysics, Pune
1 – 2 November 2011

3rd International Conference on Current Developments in Atomic, Molecular, Optical and Nano Physics with Applications (CDAMOP-2011)
University of Delhi, New Delhi
14 – 16 December 2011

Topical Conference of the ISAMP-TC2012 - Laser Interaction with Atoms, Molecules and Clusters
University of Hyderabad, Hyderabad
9 – 12 January 2012

Conference on Physics with Trapped Charged Particles
Ecole de Physique des Houches, France
9 – 20 January 2012

The India-UK Scientific Seminar Scheme
Bhuvaneshwar
7 – 9 March 2012

Samim Ali
International Conference on Dynamics of Phase Transition
Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore
28 November 2011

SERC School and National Symposium on Rheology of Complex Fluids
Indian Institute of Technology, Guwahati
3 January 2012

Low power, high performance liquid crystal displays with simple data drivers (invited)

An experimental setup to study ion-atom processes

Experiments with cold atoms in Fabry Perot Cavity in Ultra High Vacuum

1. Collisional cooling of ions with cold atoms of equal mass
2. Cavity mode emission from cold trapped atoms

From cold atoms and cold ions to cold molecules and cold molecular ions

Collisional cooling of ions by cold atoms in a combined trap

Cold atoms, cold ions and cold molecules

Effect of electrolyte on the settling behavior of charged colloidal particles in aqueous suspensions
JAKS School: Unifying Concepts in Materials
Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore
6 February 2012

RRI School on Statistical Physics, Bangalore
26 March 2012

Sandeep Kumar
CRSI Zonal Meet
National Chemical Laboratory, Pune
13 – 14 May 2011

University of Hyderabad, Hyderabad
4 July 2011

National Symposium on Chemistry and Humanity 2011
Manipal Institute of Technology, Manipal
11 – 12 July 2011

BSG National Public School, Bangalore
22 July 2011

Institute of Advance Study in Science & Technology, Guwahati
28 July 2011

Bannari Amman Institute of Technology
Satyamangalum
24 August 2011

3rd National Conference on Recent Trends in Polymer Science and Technology 2011
PSG College of Technology, Coimbatore
26 – 27 August 2011

Amrita University, Coimbatore
27 August 2011

19th Conference on Liquid Crystals Chemistry, Physics and Applications
Miedzyzdroje, Poland
19 – 23 September 2011

Department of Information Technology
Delhi
18 October 2011

Effect of electrolyte on the settling behavior of charged colloidal particles in aqueous suspensions

Discotic decorated nanoparticles: advanced materials for organic electronics (invited)

Discotic liquid crystals as advanced materials for organic electronics (invited)

Liquid crystals: paradoxical states of matter (invited)

Can crystals be liquid: the fascinating world of liquid crystals (invited)

Liquid crystals: from curiosity to commodity (invited)

Dispersion of nanoparticles in monomeric and polymeric columnar liquid crystals (invited)

The fascinating world of liquid crystals (invited)

Discotic liquid crystals nanoscience (invited)
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<tr>
<td>18th National Conference on Liquid Crystals</td>
<td>Nanoparticles in columnar mesophases (invited)</td>
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<tr>
<td>North-eastern Regional Institute of Science and Technology, Itanagar</td>
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<tr>
<td>15 – 17 November 2011</td>
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<tr>
<td>International Conference on Synthetic &amp; Structural Chemistry</td>
<td>Nanoparticles in columnar matrix</td>
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<td>Mangalore University, Mangalore</td>
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<td>8 – 12 December 2011</td>
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<tr>
<td>National Workshop on Soft Materials</td>
<td>The art and science of liquid crystals (invited)</td>
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<td>JMJ College for Women, Tenali</td>
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<td>24 January 2012</td>
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<tr>
<td>International Conference on Supramolecules and Nanomaterials – Research and Applications</td>
<td>Incorporation of nanoparticles in the supramolecular order of discotic liquid crystals (invited)</td>
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<td>Gujarat University, Ahmedabad</td>
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<td>6 – 8 February 2012</td>
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<td>Symposium on Liquid Crystalline Organic Semiconductors</td>
<td>Discotic liquid crystal nanocomposites: a new class of organic semiconductors (invited)</td>
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<td>Tokyo Institute of Technology, Japan</td>
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<td>21 – 22 February 2012</td>
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<td>University of Allahabad, Allahabad</td>
<td>Discotics: a new class of soft materials for organic electronics (invited)</td>
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<td>9 August 2011</td>
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<td>12 March 2012</td>
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<tr>
<td>Material Research Society Workshop</td>
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<td>Centre for Material Science, Allahabad</td>
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<td>12 March 2012</td>
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<td>Sanjib Sabhapandit</td>
<td>Record statistics of continuous time random walk (invited)</td>
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<td>5th Indo-Israeli Meeting on Condensed Matter Physics, Cochin</td>
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<td>15 – 18 October 2011</td>
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<td>Santosh Prasad Gupta</td>
<td>Effect of strongly bound species on the phase behavior of a cationic surfactant</td>
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<td>International Workshop on Soft Matter Chemistry</td>
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<td>Raman Research Institute</td>
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<td>Somashekar R</td>
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<td>Radio Astronomy Centre, Ooty</td>
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<td>10 – 13 January 2012</td>
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<tr>
<td>Sridhar S</td>
<td>American University of Beirut, Lebanon</td>
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<td>American University of Beirut, Lebanon</td>
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|               | Indian Institute of Science Education and Research, Mohali                      | 30 January – 3 February 2012 | 1. Interstellar, interplanetary and MHD turbulence  
|               |                                                                                   |                       | 2. Fluid turbulence                                                  |
|               | Raman Research Institute, Bangalore                                              |                       |                                                                     |
|               | Symposium on New Developments in NMR and International Conference of National Magnetic Resonance Society of India  
|               | Indian Institute of Science, Bangalore                                           | 5 – 8 February 2012   |                                                                     |
| Srivani KS    | The Path to SKA-low Workshop                                                      | 6 – 9 September 2011  |                                                                     |
| Suman Gaurab Das | School on Random Matrix Theory and Applications                              | 17 January – 1 February 2012 | Constructing a dynamics for causal set quantum gravity  
|               | Indian Institute of Science, Bangalore                                           |                       | 2D causal set quantum gravity on the computer                      |
|               | School on Statistical Physics                                                     | 26 March – 7 April 2012|                                                                     |
| Sumati Surya  | University of California, USA                                                     | 17 May 2011           | Phenomenology from quantum gravity: a brief introduction to causal set theory |
|               | McGill University, Canada                                                        | 8 September 2011      |                                                                     |
|               | 7th International Conference on Gravitation and Cosmology, Goa                   | 14 – 19 December 2011 |                                                                     |
|               | Indian Institute of Astrophysics, Bangalore                                       | 24 February 2012      |                                                                     |
Supurna Sinha  
St. Joseph’s College Post Graduate Centre  
Bangalore  
29 July 2011  

Poorna Learning Center, Bangalore  
November 2011  

Indian Institute of Science Education and Research, Trivandrum  
6 January 2012  

Workshop on Weaves of Waves: Physics of Music  
Raman Research Institute, Bangalore  
18 January 2012  

3rd RRI School of Statistical Physics  
Raman Research Institute, Bangalore  
26 March – 7 April 2012  

Swamynathan K  
Kyushu Institute of Technology, Japan  
14 November 2011 – 31 January 2012  

Tridib Ray  
EGO-Indigo Meeting  
Inter University Centre for Astronomy & Astrophysics, Pune  
1 – 2 November 2011  

3rd International Conference on Current Developments in Atomic, Molecular, Optical and Nano Physics 2011  
University of Delhi, New Delhi  
14 – 16 December 2011  

Udaya Shankar N  
Conference on Understanding Galactic and Extragalactic Foregrounds: A road to success for cosmological experiments  
Croatia  
26 May 2011  

MWA Project Meeting  
MIT Kavli Institute for Astrophysics and Space Research USA  
5 – 8 June 2011  

Workshop on Novel Telescopes for 21 Cm Cosmology  
Dominion Radio Astrophysical Observatory Canada  
15 June 2011  

Order out of disorder: an introduction to soft matter physics  
Light  
Nonlocal Pancharatnam phase in two photon interferometry  

Cavity mode emission from cold trapped atoms  

Effect of the three dimensional point spread function on the statistical detection of EoR  
Imaging the EoR  
Limitations from foreground contamination and imaging algorithms
MWA Project Meeting  
University of Melbourne, Australia  
5 – 8 December 2011

Aarohana Science Festival  
BMS College for Women, Bangalore  
24 February 2012

Venkata Jagadeesh  
Rachuri

Conference on Current Trends in Nanoscience and Technology  
National Institute of Technology, Warangal  
23 – 24 December 2011

Conference on Interfaces between Chemical Sciences and Technologies  
National Institute of Technology, Warangal  
29 – 30 December 2011

Vijayaraghavan D

International Workshop on Soft Matter Chemistry  
Raman Research Institute  
11 November 2011

Magnetic susceptibility studies on micelles, vesicles and bicelles (invited)

Vrinda J Benegal

Workshop on Web of Science 5.2  
Raman Research Institute  
12 May 2011

Panel Discussion on Challenges Ahead of Librarians in Serving its Readers  
Tripuravasini Auditorium, Bangalore  
7 September 2011

SoFerence 2011  
Tata Consultancy Services, ITPL, Bangalore  
15 October 2011

Workshop on Open Access to Academic Research  
Indian Institute of Science, Bangalore  
2 November 2011

57th All India Library Conference  
St. Agnes Centre for Post Graduate Studies and Research, Mangalore  
23 – 25 February 2012

Yashodhan Hatwalne

International Workshop on Soft Matter Chemistry  
Raman Research Institute  
9 – 11 November 2011

Structure of twist grain boundary phases (invited)
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<tr>
<th>Name</th>
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<tr>
<td>Amit Apte</td>
<td>Data assimilation – interplay between nonlinearity and statistics</td>
<td>19.4.2011</td>
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<td>TIFR Centre for Applicable Mathematics, Bangalore</td>
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<td>Sandeep Menon Perinchery</td>
<td>Diagnostic potential of autofluorescence: an explorative study with human urine, stem cells and bacteria</td>
<td>2.5.2011</td>
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<td>Macquarie University Australia</td>
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<td>Sandipan Sengupta</td>
<td>Quantum realizations of Hilbert-Palatini second-class constraints</td>
<td>2.5.2011</td>
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<td>Institute of Mathematical Sciences, Chennai</td>
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<td>Priya Rose T</td>
<td>Design and characterization of photonic quasi-crystals for the microwave to optical regime</td>
<td>11.5.2011</td>
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<td>Universita di Napoli “Federico II” Italy</td>
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<td>Satya Sudhakar Yedlapalli</td>
<td>The line spectral frequency model of a finite length sequence and its applications</td>
<td>20.5.2011</td>
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<td>Indian Institute of Science Bangalore</td>
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<tr>
<td>Sanjay Gupta</td>
<td>Dimensional and temperature dependence of metal-insulator transition in correlated and disordered systems</td>
<td>24.05.2011</td>
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Harshal Bhadkamkar
Tata Institute of Fundamental Research, Mumbai
Collective properties of X-ray binary populations in nearby galaxies
24.05.2011

Dana Z Anderson
University of Colorado Boulder, USA
Atomtronics, atom chips and the microwave oscillator
26.05.2011

Ravi Chandra V
Israel Institute of Technology Israel
A memory saving algorithm for computing eigenvalue approximations of quantum systems
27.05.2011

Jayan Thomas
University of Arizona USA
Advanced polymers for 3D telepresence and energy conversion
30.05.2011

Gopal NO
National Dong Hwa University, Taiwan
Visible light active nanoparticles for environmental purification
31.05.2011

Urbasi Sinha
University of Waterloo Canada
Applications of quantum optics to quantum mechanics and quantum information processing
31.05.2011

Abhik Ghosh
Indian Institute of Technology Kharagpur
Characterizing the foregrounds for red shifted 21-cm HI signal: GMRT 150 MHz & 610 MHz observations
13.06.2011

Archan Dey
Eindhoven University of Technology The Netherlands
Supramolecular nano materials: Inspiration from crystal engineering and biomineralization
15.06.2011

Iyer BR
Raman Research Institute Bangalore
An introduction to general relativity and gravitational waves I, II
27.06.2011

Chandrashekar CM
Institute of Mathematical Sciences, Chennai
Quantum walk with spatial, temporal and fluctuating disordered operations
28.06.2011

Priyam Das
Indian Institute of Science Education and Research Kolkata
Dynamics of Bose-Einstein condensates: A mean-field approach
01.07.2011

Arvind Ayyer
UC Davis, USA
An exactly solvable open reaction-diffusion process
01.07.2011

Sujoy Kumar Modak
S.N. Bose National Centre for Basic Sciences, Kolkata
Quantum tunneling and thermodynamic approach to black hole entropy
11.07.2011
<table>
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<th>Name</th>
<th>Affiliation</th>
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<tr>
<td>Srinivas Sridhar</td>
<td>Northeastern University, USA</td>
<td>Controlling light with nanoscale negative metamaterials</td>
<td>12.07.2011</td>
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<tr>
<td>Rema Krishnaswamy</td>
<td>Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore</td>
<td>Shear thickening in fractal aggregates of carbon nanotubes</td>
<td>12.07.2011</td>
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<td>William Clark</td>
<td>Clark-MXR Inc., USA</td>
<td>Ultra pulse lasers and system development at Clark-MXR Inc.</td>
<td>19.07.2011</td>
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<td>Sandeep Krishna</td>
<td>National Centre for Biological Sciences, Bangalore</td>
<td>Counting genomes: the lysis-lysogeny decision in temperate bacteriophage</td>
<td>26.07.2011</td>
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<td>Seshadri TR</td>
<td>University of Delhi, Delhi</td>
<td>CMB as a probe for cosmic magnetic fields</td>
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<td>Arundhati Dasgupta</td>
<td>University of Lethbridge, Canada</td>
<td>Measuring quantum gravity</td>
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<td>Srivathsan Vasudevan</td>
<td>National Technical University, Singapore</td>
<td>Monitoring of individual biological cells using photothermal response and photothermal imaging techniques</td>
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<td>Indranil Chattopadhyay</td>
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<td>Effect of composition and equation of state on relativistic fluids</td>
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<td>Onuttom Narayan</td>
<td>University of California, USA</td>
<td>Curvature of finite graphs and its consequences</td>
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<td>Deepshika Jaiswal Nagar</td>
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<td>Magnetocaloric effect and magnetic cooling near a field-induced quantum-critical point</td>
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<td>Prem Kiran P</td>
<td>University of Hyderabad, Hyderabad</td>
<td>Propagation of ultrafast laser pulses under tight focusing conditions</td>
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<td>Mahadevan L</td>
<td>Harvard University, USA</td>
<td>On growth and form: geometry, physics and biology</td>
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<td>Arunima Banerjee</td>
<td>Indian Institute of Science, Bangalore</td>
<td>Vertical structure of disk galaxies and their dark matter halos</td>
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<td>Anders Kastberg</td>
<td>Universite Nice Sophia, France</td>
<td>Experimental demonstration of the Pancharatnam phase in intensity interferometry and quantum information at University of Nice</td>
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Nampoori VPN  
Cochin University of Science and Technology, Cochin  
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06.09.2011

Paramita Barai  
University of Nevada  
USA  
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09.09.2011

Subhasish Dutta Gupta  
University of Hyderabad  
Hyderabad  
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16.09.2011

Subhasis Maity  
Jadavpur University  
Kolkata  
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20.09.2011

Sourav Haldar  
Centre for Cellular and Molecular Biology  
Hyderabad  
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26.09.2011

Hari Dass ND  
Chennai Mathematical Institute, Chennai  
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13.10.2011

Dan Werthimer  
University of California, USA  
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17.10.2011

Andreas Fuhrmanek  
CNRS- Institut d’Optique Graduate School, France  
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18.10.2011

Bernard de Wit  
Utrecht University  
The Netherlands  
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Ravindra Venkatramani  
Duke University  
USA  
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Changbom Park  
Korea Institute for Advanced Study  
Republic of Korea  
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Yuri A Shchekinov  
Southern Federal University, Russia  
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14.11.2011

Karthik Shankar  
Boston University, USA  
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15.11.2011
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<tr>
<td>Sudhir Vempati</td>
<td>Higgs or No Higgs?</td>
<td>17.11.2011</td>
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<td>Rajesh R</td>
<td>Isotropic-nematic-disorder transitions in a system of long rods</td>
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<td>Sanjay Kumar</td>
<td>Mechanical separation of short double stranded DNA: Effect of pulling geometry</td>
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<td>Subinay Dasgupta</td>
<td>Quantum Ising Chain under periodic field: an exact solution</td>
<td>08.12.2011</td>
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<td>Manjari Bagchi</td>
<td>A study of observed luminosities of millisecond pulsars in globular clusters</td>
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<td>Fernando Barbero</td>
<td>Black holes: combinatorics and the thermodynamic limit</td>
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<td>Rafael D Sorkin</td>
<td>Expressing entropy globally in terms of field correlations</td>
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<td>Rajaram Nityananda</td>
<td>Electromagnetic transmission through a parallel array of wires</td>
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<td>Malay Bandyopadhyay</td>
<td>Quantum transport at nanoscale: two models for energy and charge transfer</td>
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<td>Anantha Ramakrishna S</td>
<td>Broadband extra-ordinary transmission of light through checkerboard plasmonic films</td>
<td>19.12.2011</td>
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<td>Yogesh</td>
<td>Investigations on rotations and interactions between microscopic objects by optical</td>
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<td>Yogendran KP</td>
<td>Black holes and string theory</td>
<td>02.01.2012</td>
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<tr>
<td>Kartik Sheth</td>
<td>National Radio Astronomy Observatory, USA</td>
<td>The starring role of bars in understanding galaxy evolution: Results from S4G, COSMOS, DEEP2 and AEGIS</td>
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<td>Nimesh A Patel</td>
<td>Harvard-Smithsonian Center for Astrophysics, USA</td>
<td>Probing circumstellar chemistry with the submillimeter array</td>
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<td>Pinaki Chaudhuri</td>
<td>Universitat Dusseldorf, Germany</td>
<td>Confined flow of soft jammed materials</td>
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<td>Madhusudan Singh</td>
<td>University of Texas, USA</td>
<td>A few illuminating adventures with OLEDs</td>
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<td>Debashree Ghosh</td>
<td>University of Southern California, USA</td>
<td>Understanding electron transfer processes in complex environments- Hybrid QM/EFP approach</td>
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<td>Pavan Kumar Aluri</td>
<td>Indian Institute of Technology Kanpur</td>
<td>Directional and power anisotropies in CMB</td>
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<td>Ashish V Orpe</td>
<td>National Chemical Laboratory Pune</td>
<td>Dynamics of dense granular material flowing within a fluid</td>
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<td>Sharmila Kamat</td>
<td>Columbia University, USA</td>
<td>Hunting for WIMPs – the search for dark matter in the universe</td>
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<td>Ron Ekers</td>
<td>Australia Telescope National Facility, Australia</td>
<td>1. Lunar radio Cerenkov observations of UHE neutrinos</td>
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<td>Sharanya Sur</td>
<td>Inter University Centre for Astronomy &amp; Astrophysics, Pune</td>
<td>Magnetic fields during the formation of the first stars</td>
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<td>Jane Roscoe</td>
<td>Institute of Physics Publishing United Kingdom</td>
<td>Visibility - beyond the published article</td>
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<td>John Philip</td>
<td>Indira Gandhi Centre for Atomic Research, Kalpakkam</td>
<td>Nanofluid- a wonderful model system for physicists</td>
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<td>Preeti Kharb</td>
<td>Rochester Institute of Technology USA</td>
<td>Examining AGN unification and jet propagation in Radio-loud AGN</td>
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<tr>
<td>Mark Bowick</td>
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<td>Facets of order</td>
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<tr>
<td>Takashi Kato</td>
<td>Development of nanostructured liquid crystals exhibiting photonic, ionic and electronic functions</td>
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<tr>
<td>Madhusudana NV</td>
<td>An overview of liquid crystals with novel physical properties synthesized in the Raman Research Institute</td>
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<tr>
<td>Duncan Bruce</td>
<td>New liquid-crystalline materials via heterocyclic compounds</td>
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<td>Paul Kouwer</td>
<td>Hierarchical organization in soft matter</td>
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<tr>
<td>Yo Shimizu</td>
<td>Liquid crystals: dynamics systems towards novel semiconducting materials</td>
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<td>Ehud Keinan</td>
<td>Towards chemical capsids and cucurbituril-based chemical sensors</td>
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<tr>
<td>Rajiv Manohar</td>
<td>Ferroelectric liquid crystals versus nano particles doped ferroelectric liquid crystals</td>
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<td>Pratibha R</td>
<td>Glassy nature for the dark conglomerate liquid crystalline phase</td>
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</table>
Surajit Dhara  Viscoelastic properties of some unconventional nematic liquid crystals
Manickam M  Molecular materials: triphenylene-based discotic liquid crystals
Raj Kumar Gupta  Surface pressure induced nanostructure formation in langmuir-blodgett films of tricycloquinazoline based mesogen
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Sadashiva BK  Liquid crystals of compounds composed of bent core molecules
Ramakrishnan S  Janus hybramers: self-adapting amphiphilic hyper-branched polymers
Jayaraman N  Fluorescent poly(ether imine)-based dendritic liquid crystals
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Satyendra Kumar  What are cybotactic groups, swarms, clusters, correlated regions, and pretransitional fluctuations?
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Dabrowski R  High birefringent nematic liquid crystals with positive, neutral and negative dielectric anisotropy
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<td>Ashish Prajapati</td>
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<td>Tandel RC</td>
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<td>Arun Roy</td>
<td>The triclinic lamellar phases of the bent-core hockey stick shaped molecules</td>
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<td>Thaker BT</td>
<td>Calamatic metallomesogens: metal containing liquid crystals</td>
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<td>Raina KK</td>
<td>Optical enhancement investigations of polymer stabilized and guest – host liquid crystals</td>
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<td>Kula P</td>
<td>Synthesis and properties of laterally fluoro-substituted 4''-alkyl-[1,1':4',1&quot;]terphenul-4-yl alkyl carbonates</td>
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<td>Hari K Bisoyi</td>
<td>Carbon-based liquid crystals</td>
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<td>Vijayaraghavan D</td>
<td>Magnetic susceptibility studies on micelles, vesicles and bicelles</td>
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<td>Hatwalne Y</td>
<td>The structure of twist grain boundary phases</td>
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**3rd RRI School on Statistical Physics**

held at the Raman Research Institute between March 26 - April 7, 2012

<table>
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<tr>
<td>Samuel J</td>
<td>Brownian motion on curved surfaces</td>
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<td>Bhattacharjee SM</td>
<td>Physics of polymers</td>
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<td>Bhubaneswar</td>
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<tr>
<td>Abhishek Dhar</td>
<td>Introduction to methods of stochastic processes - I</td>
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<td>Sabhapandit S</td>
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<tr>
<td>Jarzynski C</td>
<td>Nonequilibrium work relations and fluctuations</td>
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<td>University of Maryland, USA</td>
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Ciliberto S
École normale supérieure
France

Measuring nonequilibrium fluctuations

Gallavotti G
University of Rome, Italy

Dynamical systems and fluctuation relations
## Visits

<table>
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<tr>
<th>Name</th>
<th>Institution</th>
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<tr>
<td>Nithyanandan T</td>
<td>Columbia University, USA</td>
<td>6 April – 16 May 2011</td>
</tr>
<tr>
<td>Divya Sharma</td>
<td>Birla Institute of Technology &amp; Science-Pilani, Hyderabad</td>
<td>10 – 12 April 2011</td>
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<tr>
<td>Unnikrishnan CS</td>
<td>Tata Institute of Fundamental Research, Mumbai</td>
<td>14 – 19 April 2011</td>
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<tr>
<td>Umakanth Rapol</td>
<td>Indian Institute of Science Education and Research, Pune</td>
<td>15 – 16 April 2011</td>
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<tr>
<td>Sudipta Sarkar</td>
<td>University of Maryland, USA</td>
<td>17 – 19 April 2011</td>
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<tr>
<td>Amit Apte</td>
<td>Centre for Applicable Mathematics, Bangalore</td>
<td>19 April 2011</td>
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<tr>
<td>Sandipan Sengupta</td>
<td>Institute of Mathematical Sciences, Chennai</td>
<td>1 – 5 May 2011</td>
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<tr>
<td>Sandeep Menon Perinchery</td>
<td>Macquarie University, Australia</td>
<td>2 May 2011</td>
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Reetanjali Moharana  
Indian Institute of Technology, Mumbai  
5 May – 5 June 2011  
10 November – 31 December 2011

Arun KG  
Chennai Mathematical Institute, Chennai  
15 – 23 May 2011  
24 – 27 September 2011  
21 – 26 February 2012

Sanjay Gupta  
S N Bose Centre for Basic Sciences, Kolkata  
22 – 27 May 2011

Brian Crosse  
Curtin University, Western Australia  
23 – 25 May 2011

Harshal Bhadkamkar  
Tata Institute of Fundamental Research, Mumbai  
23 – 26 May 2011

Edward Morgan  
Massachusetts Institute of Technology, USA  
23 – 28 May 2011

Jinto Thomas  
Institute for Plasma Research, Ahmedabad  
25 – 27 April 2011  
2 – 26 May 2011

Ginson Joseph  
St. Thomas College, Pala, Kerala  
17 – 18 May 2011

Ravi Chandra V  
Israel Institute of Technology, Israel  
27 May 2011

Dana Anderson  
University of Colorado, USA  
20 – 28 May 2011

Seshadri TR  
Delhi University, New Delhi  
29 May – 2 June 2011  
26 – 31 July 2011  
1 – 8 October 2011  
3 – 9 March 2011

Jayan Thomas  
University of Arizona, USA  
29 – 31 May 2011

Gopal NO  
National Dong Hwa University, Taiwan  
31 May 2011

Ashish Lele  
National Chemical laboratory, Pune  
31 May – 3 June 2011

Mughda Gadgil  
National Chemical Laboratory, Pune  
2 – 3 June 2011

Ghosh A  
Indian Association for the Cultivation of Science, Kolkata  
3 – 5 June 2011
Anindya Banerjee  
St. Xavier’s College, Pune  
7 – 11 June 2011

Ganesh V  
Central Electrochemical Research Institute, Karaikudi  
10 – 16 June 2011

Abhik Ghosh  
Indian Institute of Technology, Kharagpur  
12 – 13 June 2011

Archan Dey  
Eindhoven University of Technology, The Netherlands  
14 – 15 June 2011

Vikram Vyas  
St. Stephen’s College, Delhi  
20 June – 13 July 2011

Priyam Das  
Indian Institute of Science Education and Research, Kolkata  
30 June – 3 July 2011

Arvind Ayyer  
University of California, USA  
1 July 2011

Marykutty James  
MG University, Kerala  
1 July – 30 October 2011

Chetana Jain  
Delhi University, New Delhi  
1 – 10 July 2011

Surajit Dhara  
University of Hyderabad, Hyderabad  
5 – 6 July 2011

Abhijit Sen  
Institute for Plasma Research, Ahmedabad  
8 – 10 July 2011

Sujoy Kumar Modak  
S N Bose National Centre for Basic Sciences, Kolkata  
10 – 15 July 2011

Sibhasish Gosh  
The Institute of Mathematical Sciences, Chennai  
10 – 14 July 2011

Srinivas Sridhar  
Northeastern University, USA  
12 July 2011

Krishnan N  
Tata Institute of Fundamental Research, Mumbai  
14 – 15 July 2011

Guillaume Faye  
Institut d’ Astrophysique de Paris, Paris  
16 July – 13 August 2011

Rao DVGLN  
University of Massachusetts, USA  
28 July – 5 August 2011

30 August 2011
Anders Kastberg  
Universite Nice Sophia Antipolis, France  
29 July - 31 August 2011

Arundati Dasgupta  
University of Lethbridge, Canada  
3 – 5 August 2011

Casey Tomlin  
Pennsylvania State University, USA  
6 August – 7 October 2011

Govind Swarup  
National Centre for Radio Astrophysics, Pune  
7 – 9 August 2011

Indranil Chattopadhyay  
Aryabhatta Research Institute of Observational Sciences, Nainital  
8 – 16 August 2011

Srivathsan Vasudevan  
National Technical University, Singapore  
11 August 2011

Onuttom Narayan  
University of California, USA  
17 August 2011

Ruta Kale  
Inter University Centre for Astronomy & Astrophysics, Pune  
20 – 31 August 2011

Robert Goeke  
MIT Kavli Institute of Astrophysics & Space Research, USA  
22 – 23 August 2011  
14 – 16 November 2011  
11 – 14 March 2012

Paramita Barai  
International Centre for Theoretical Physics, Italy  
5 September – 2 October 2011

Dutta Gupta  
University of Hyderabad, Hyderabad  
14 – 16 September 2011

Avasthi DK  
Inter University Accelerator Centre, New Delhi  
15 – 17 September 2011

Richard Dodson  
International Centre for Radio Astronomy Research, Australia  
24 September – 1 October 2011

Subhasis Maity  
Jadavpur University, Kolkata  
19 – 20 September 2011

Sourav Haldar  
Centre for Cellular & Molecular Biology, Hyderabad  
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CNRS-Institut d’Optique Graduate School, France  
5 – 26 October 2011

Hari Dass ND  
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Anya Choudhury  
Tata Institute of Fundamental Research, Mumbai  
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18 – 23 February 2012

Dan Werthimer  
University of California, USA  
17 – 19 October 2011

Ramesh K  
Max-Planck Institute for Radio Astronomy, Germany  
17 – 20 October 2011

Jayaram N Chengalur  
National Centre for Radio Astronomy, Pune  
19 – 21 October 2011

Yuri Schekinov  
Southern Federal University, Russia  
26 October – 19 November 2011

Ravindra Venkatramani  
Duke University, USA  
26 – 29 October 2011

Abhijit Ghosh  
Weizmann Institute of Science, Israel  
28 October – 30 November 2011  
3 – 7 January 2012

Aditya Dharmadhikari  
Tata Institute of Fundamental Research, Mumbai  
31 October – 4 November 2011

Balakrishna K  
Defence Research & Development Organisation, Mumbai  
7 – 9 November 2011

Jurek Malareki  
University of Western Australia, Australia  
10 November – 10 December 2011

Karthik Shankar  
Boston University, USA  
15 – 16 November 2011

Haripadmam PC  
Indian Institute of Space Science and Technology, Trivandrum  
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Visweshwar Ram Marthi  
National Centre for Radio Astrophysics, Pune  
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Gaurav Jagtap  
Pune University, Pune  
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Poonam Mehta  
Delhi University, Delhi  
21 November – 6 December 2011

Rajesh R  
Institute of Mathematical Sciences, Chennai  
29 November 2011

Subinay Dasgupta  
Calcutta University, Kolkata  
29 November – 10 December 2011
Sanjay Kumar
Banaras Hindu University, Varanasi 1 December 2011

Manu M
Indian Institute of Technology, Kanpur 1 – 15 December 2011

Karupuchamy
Kyushu Institute of Technology, Japan 8 December 2011

Jack Douglas
National Institute of Standards and Technology, USA 8 December 2011

Jesus Fernando Barbero Gonzalez
Instituto de Estructura de la Materia, Spain 3 – 14 December 2011

Rafael Sorkin
Syracuse University, USA 7 December 2011 – 3 January 2012

Manjari Bagchi
University of West Virginia, USA 8 – 13 December 2011

Rajaram Nityananda
National Centre for Radio Astrophysics, Pune 9 – 14 December 2011

Nalini H Issur
University of Mauritius, Mauritius 11 – 26 December 2011

Sukanya Chakraborti
Florida Atlantic University, USA 13 – 14 December 2011

Malay Bandyopadhyay
University of Toronto, Canada 15 – 16 December 2011

Anirudh Krishna
Chennai Mathematical Institute, Chennai 15 – 30 December 2011

Ashish Asgekar
Netherlands Institute for Radio Astronomy, The Netherlands 18 – 21 December 2011

Yogesh
Bangalore University, Bangalore 19 December 2011

Ryuichi Fujita
Universitat des Baleares, Spain 20 December 2011

Subbarao Kambhampati
Arizona State University, USA 20 – 24 December 2011

Suresh Doravari R
California Institute of Technology, USA 23 December 2011

12 – 29 January 2012
Himangshu Paul  
Indian Institute of Science Education and Research, Kolkata  
25 – 26 December 2011

Supriyo Mitra  
Indian Institute of Science Education and Research, Kolkata  
25 – 26 December 2011

Joanna M Rankin  
University of Vermont, USA  
27 December 2011 – 10 January 2012

Abhijit Ghosh  
Weizmann Institute of Science, Israel  
3 – 30 January 2012

Nimesh Patel  
Harvard-Smithsonian Center for Astrophysics, USA  
6 – 10 January 2012

Ronald Ekers  
Commonwealth Scientific and Industrial Research Organisation Australia  
8 – 30 January 2012

Pinaki Chaudhuri  
Universitat Dusseldorf, Germany  
9 January 2012

Madhusudan Singh  
University of Texas, USA  
10 January 2012

Pavan Kumar Aluri  
Indian Institute of Technology, Kharagpur  
11 January – 15 February 2012

Sharanya SurlInter  
Inter University Centre for Astronomy & Astrophysics, Pune  
16 January – 5 February 2012

Debashree Ghosh  
University of Southern California, USA  
16 – 18 January 2012

Tarun Souradeep  
Inter University Centre for Astronomy & Astrophysics, Pune  
18 January 2012

Ashish V Orpe  
National Chemical Laboratory, Pune  
20 – 21 January 2012

Sharmila Kamat  
Columbia University, USA  
22 – 26 January 2012

Jane Roscoe  
Institute of Physics Publishing, United Kingdom  
31 January 2012

Kavitha M K  
Indian Institute of Space Science and Technology, Trivandrum  
31 January – 2 February 2012

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Indira Gandhi Centre for Atomic Research, Kalpakkam  
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Rochester Institute of Technology, USA  
5 - 7 February 2012

Mark Bowick  
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7 February 2012

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12 - 22 February 2012

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12 - 22 February 2012

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13 - 29 February 2012

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12 - 15 March 2012

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20 - 22 March 2012

Anitha R Warrier  
Indian Institute of Technology-Madras, Chennai  
22 - 25 March 2012

Vandna Gokhroo  
Tata Institute of Fundamental Research, Mumbai  
23 February - 12 July 2012
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<td>Udaya Shankar N</td>
<td>The application of compressive sampling to deconvolution</td>
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<td>T.J. Cornwell and F.de Hoog</td>
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<td>Commonwealth Scientific and Industrial Research Organization (CSIRO), Australia</td>
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<td>Gravity modes as a way to distinguish between hydrogen and helium-burning red giant stars</td>
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<td>Ramesh B</td>
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<td>Stacy S. McGaugh</td>
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