

IoP Golden Jubilee Young Women Scientists' Meet-2024

November 13-14, 2024

Institute of Physics, Bhubaneswar
Venue: Prof. T. Pradhan Lecture Hall (Block-A)

Programme Schedule

Day-1: 13th November, 2024

8:30 AM: Registration (Foyer, Block A Lecture Hall, IoP)

9:00-9:30 AM: Inaugural Session

9:30-10:00 AM: Tea

Technical Session I: High Energy Physics Chair: Susmita Adhikari		
Time	Invited Speakers	Title of the talk
10:00-10:25 AM	Poonam Mehta, (JNU, New Delhi)	<i>Majorana CP violation insights from decaying neutrinos</i>
10:25-10:50 AM	Ipsita Saha, (IITM)	<i>Lessons for BSM Physics from LHC Searches</i>
10:50-11:15 AM	Binata Panda, [IIT(ISM) Dhanbad]	<i>Gauge Covariance of Entropy Current in Higher Derivative Theories of Gravity</i>
11:15-11:45 AM	Tea	
11:45-12:10 PM	Moon Moon Devi, (Tezpur University) (Online mode)	Machine learning for particle detector
Technical Session II: Condensed Matter Physics (Theory) Chair: Srijani Mallik		
Time	Invited Speakers	Title of the talk
12:10-12:35 PM	Archana Misra, (Delhi University) (Online mode)	<i>Quantum computing with Yu-Shiba-Rusinov states in superconductors</i>
12:35-1:00 PM	Rumi De, (IISER Kolkata)	<i>The survival dynamics of a prey swarm and the emergence of various escape patterns under a predator attack</i>

1:00-2:30 PM	Lunch break	
Time	Invited Speakers	Title of the talk
2:30-2:55 PM	Sudeshna Sen, [IIT (ISM) Dhanbad]	The Mott-Hubbard metal-insulator transition: new insights into a classic problem
2:55-3:25 PM	Urna Basu, (S. N. Bose National Center for Basic Science, Kolkata)	<i>Active motion with multiple time-scales: Emergent dynamical regimes</i>
3:25-3:55 PM	Tea	
A Tribute to Prof. Rohini M. Godbole Chair: Kajari Majumdar		
4:00-4:50 PM	<p>Speakers: Srubabati Goswami (PRL, Ahmedabad) Talk Title: Pioneering Change : Rohini Godbole's Journey and Vision for Women in Science</p> <p>Genevieve Belanger (LAPTh, Annecy) Talk Title: SUSY, Higgs and dark matter: a tribute to Prof. Rohini Godbole (Online Session)</p>	
Panel Discussion: Leadership Roles for Women in Science		
5:00-6.30 PM	<p>Panelists: Kajari Majumdar (TIFR, Mumbai) Vandana Nanal (TIFR, Mumbai) Shyama Rath (Delhi University, Delhi) Sumedha (NISER, Bhubaneswar) Sanjay Kumar Swain (NISER, Bhubaneswar) Co-ordinator: Suratna Das (Ashoka University, Haryana)</p>	
6:30-7:15 PM	Cultural Program	
7:30 PM onwards	Director's Dinner at Hotel Suryansh	

-----End of Day-1-----

Day-2: 14th November, 2024

Technical Session III: Cosmology and Astrophysics Chair: Poonam Mehta		
Time	Invited Speakers	Title of the talk
9:00-9:25 AM	Suchetana Chatterjee, (Presidency University, Kolkata)	Studying Supermassive Black Holes in the Universe: A Multiwavelength Approach
9:25-9:50 AM	Suratna Das, (Ashoka University, Haryana)	<i>Some 'background checks' of Warm Inflation</i>
9:50-10:15 AM	Sudipta Das, (Visva-Bharati, Shantiniketan)	<i>Testing models beyond ΛCDM</i>
10:15-10:40 AM	Susmita Adhikari, (IISER Pune)	<i>Understanding the nature of dark matter using halos from dwarf to cluster scales</i>
10:40-11:10 PM	Tea	
Technical Session IV: Condensed Matter Physics (Experiment) Chairs: Binata Panda & Ipsita Saha		
Time	Invited Speakers	Title of the talk
11:10-11:35 AM	Vidya Kochat, (IIT KGP)	<i>Broken symmetry quantum Hall states, layer hybridization and screening effects in twisted bilayer graphene at intermediate angles</i>
11:35-12:00 AM	Jayita Nayak, (IIT Kanpur)	Electronic structure and magnetotransport properties of axion insulators
12:00-12:25 PM	Somdutta Mukherjee, (C. V. Raman Global University, Bhubaneswar)	Gallium Ferrite: Journey from a leaky dielectric to room temperature multiferroic
12:25-12:50 PM	Srijani Mallik, (SINP, Kolkata)	<i>Exploring Spin-Orbitronics and Superconductivity in $KTaO_3$-Based Two-Dimensional Electron Gases</i>
1:00-2:30 PM	Lunch break	

2:30-2:55 PM	Debalaya Sarker, (UGC-DAE-CSR, Indore)	Data-Analytics for Accelerated Experimental Discovery of Functional Materials
2:55-3:20 PM	Jhuma Sannigrahi, IIT Goa	<i>Uncovering the Mysteries of Multiferroics with New Insights from CaMn₇O₁₂</i>
Time	Invited Speakers	Title of the talk
3:20-3:45 PM	Manju Unnikrishnan, (IMMT, Bhubaneswar)	<i>In Pursuit of Intelligent Materials: From Green Energy to Smart Displays</i>
3:45--4:45 PM	Tea+Poster Session	
4:45-5:10	Sriparna Chatterjee, (IMMT, Bhubaneswar)	<i>Journey with 2-D MXenes: From Pioneering Synthesis to Scalable Commercialization</i>
5:10-5:35 PM	Mohua Chakraborty, (C. V. Raman Global University, Bhubaneswar)	<i>Electrochemical reconstruction of Ni/Co- based precursors: Exploring novel materials for Supercapacitors</i>
Special Talk and Concluding Session		
5:35-6:00 PM	Special Talk by Rajeswari S. Raina, (Shiv Nadar University, Greater Noida) Title: <i>Beyond Numbers and Mentors: Cognitive Virtues, Gender and Science</i>	
6:00-6:15 PM	Vote of Thanks	
7:30 PM onwards	Dinner	