Frontier Symposium in Physics (FSPHY 2024) Programme

Day 1: Friday, 19-01-2024		
Time	Session Description	
12:30-13:50	Lunch	
14:00-15:00	Registration and Welcome Tea	
Session 1 Chair: Ramesh Chandra Nath		
15:15-15:30	Inauguration: Director, IISER TVM Prof. J. N. Moorthy	
15:30-16:00	V. Parameswaran Nair Fluid dynamics: New light on problems old and new	
16:00-16:30	Archan S. Majumdar Quantum Information and Foundations: from basic principles to applications	
16:30-17:00	Yogesh Singh Quantum Spin Liquid in a Kagome bi-layer material	
17:00-17:30	Tea Break and Poster Session 1	
Sessio	n 2 Chair: Krishnendu Gope	
17:30-18:00	Vaibhav Prabhudesai Quantum coherence and electron collisions	
18:00-18:30	Vijay Shenoy Theory of Phases	
18:30-19:00	Kuntala Bhattacherjee Local electronic states of Sn doped WS ₂ surface	
19:30-21:00	Conference Dinner	

Day 2: Saturday, 20-01-2024		
Time	Session Description	
8:00-9:20	Breakfast	
Session 3 Chair: Nitin Yadav		
9:30-10:00	Durgesh Tripathi India's first solar observatory in space: The Aditya L1	
10:00-10:30	Sreedhar Dutta Oscillating states in periodically driven Langevin systems	
10:30-11:00	Tea Break and Poster Session 2	
Session 4 Chair: Rajeev N. Kini		
11:00-11:30	Naveen Surendran Dynamical freezing and Floquet transitions in periodically driven Su-Schrieffer-Heeger model	
11:30-12:00	Sreerup Raychaudhuri Future direction in particle physics	
12:00-13:00	Women in Science	
13:00-14:00	Lunch	
Session 5 Chair: Tanumoy Mandal		

14:15-14:45	Joy Mitra Engineering Strain Inhomogeneities in MoS ₂ Monolayers
14:45-15:15	Shabnam Iyyani
	Onset of Particle Acceleration during the Prompt Phase in Gamma-Ray Bursts
15:15-16:00	Tea Break and Poster Session 3
Session 6 Chair: D. V. Senthilkumar	
16:00-16:30	Renu John
	Deep Learning Approaches in Quantitative Phase Microscopy and
	Its Clinical Applications
16:30-17:00	Neelima Gupte
	Climate network analysis of extreme events: Tropical Cyclones
17:00-17:30	Ajit Srivastava
	Detecting gravitational waves with pulsars as resonant Weber
	detectors
17:30-18:00	High Tea/Coffee
18:00-19:00	Flash Presentations
19:30-21:00	Conference Dinner

Day 3: Sunday, 21-01-2024		
Time	Session Description	
8:00-9:20	Breakfast	
Session 7 Chair: Amal Medhi		
9:30-10:00	Nirmal Viswanathan Common optical components, uncommon optical phenomena	
10:00-10:30	Aveek Bid Playing with Graphene bands	
10:30-11:00	Shikha Verma Nanoscale patterning of surfaces: For sensor, device and Bioapplications	
11:00-11:30	Tea Break	
S	Session 8 Chair: Anil Shaji	
11:30-12:00	Tuhin Maity Strain-engineering of nanoscale multiferroics for novel spintronics applications	
12:00-12:30	Arghya Tarafdar Electron-phonon coupling, critical temperature and gap functions in NbSe ₂ /MoS ₂ Ising Superconductors	
12:50-13:00	Closing Remarks	
13:00-14:00	Lunch	