

Frontier Symposium in Physics 2023 (FS-PHY 2023)

(Draft Program Schedule)

Day 1	24.02.2023	Friday	
13:30:00	15:30:00	Registration	
15:00:00	15:30:00	Tea	
15:30:00	15:45:00	Inauguration by the Director	
Session 1			
Chair	Prof. Anil Shaji		
15:45:00	16:20:00	L1: Prof.Ashoke Sen , ICTS-TIFR	YTR
16:20:00	16:55:00	L2: Prof.Urbasi Sinha , RRI Bengaluru	Revealing new facets in experimental quantum information processing with photons.
16:55:00	17:15:00	Tea Break and Poster Session	
Session 2			
Chair	Prof. Ramesh Chandra Nath		
17:15:00	17:50:00	L3: Prof.Saurabh Lodha , IIT Bombay	Few-layer 2D TMD-based photo and strain detectors
17:50:00	18:25:00	L4: Dr Tanumoy Mandal , IISER TVM	YTR
18:25:00	19:00:00	L5: Prof.Sudhir Vempati , IISc Bengaluru	Novel Mechanisms for Tiny Neutrino masses
Day 2	25.02.2023	Saturday	
Session 3			
Chair	Dr. Soumen Basak		
09:00:00	09:35:00	L6: Dr.Dibyendu Nandi , IISER Kolkata	Not gone with the solar wind: The story of our astrophysical ecosystem
09:35:00	10:10:00	L7: Dr. D. V. Senthilkumar , IISER TVM	YTR
10:10:00	10:45:00	L8: Dr. Piyaali Chatterjee , IIA Bengaluru	Physics of solar eruptions
10:45:00	11:15:00	Tea Break and Poster Session	
Session 4			
Chair	Dr. Deepshikha Jaiswal Nagar		
11:15:00	11:50:00	L9: Dr. Kasturi Saha , IIT Bombay	Magnetometry with Color Defects in Diamond
11:50:00	12:25:00	L10: Prof. Justin David , IISc Bangaluru	Entanglement properties of the graviton
12:25:00	13:00:00	L11: Dr. Atindra Nath Pal , SNBNCBS	Effect of molecule-orientation in determining current flow in a single metal-molecule-metal junction
13:00:00	14:30:00	Lunch	CDH 3
Session 5			
Chair	Prof. Joy Mitra		
14:30:00	15:05:00	L12: Dr. Anand Jha , IIT Kanpur	Partial coherence: Applications in quantum state measurement, imaging and communication
15:05:00	15:40:00	L13: Prof. Rajesh Narayan , IIT Madras	Cloaked Quantum Griffiths Singularity in low dimensional Superconducting systems
15:40:00	16:15:00	L14: Prof. Indra Dasgupta , IACS Kolkata	Spin-Orbit Coupling Induced Emergent Phases in Quantum Matter
16:15:00	17:15:00	Tea Break and Poster Session	

Session 6			
Chair	Prof. M.M.Shaijumon		
17:15:00	17:50:00	L15: Prof.Aveek Bid , IISC Bengaluru	Playing with graphene bands
17:50:00	18:25:00	L16: Dr. Bikas C. Das , IISER TVM	YTR
18:25:00	19:00:00	L17: Prof. Sudheshna Singha , IISER Mohali	Noise in aid of Logic
Day 3	26.02.2023	Sunday	
Session 7			
Chair	Dr. Ravi Pant		
09:00:00	09:35:00	L18: Prof. Venugopal Achanta , NPL Delhi	Metamaterials for light-matter interaction studies
09:35:00	10:10:00	L19: Dr. Surjeeth Singh , IISER Pune	Low dimensional systems with spins on chains, ladders and honeycomb structures
10:10:00	10:50:00	Student Flash Talks	To be decided
10:50:00	11:10:00	Tea Break	
Session 8			
Chair	Dr. Amal Medhi		
11:10:00	11:45:00	L20: Prof. Sumathi Rao , ICTS-TIFR	Non-abelian anyons : From Majoranas to parafermions
11:45:00	12:20:00	L21: Dr Vinayak B. Kamble , IISER TVM	YTR
12:20:00	12:55:00	L22: Prof. Shobana Narasimhan , JNCASR	Studying Diffusion and Sintering of Ultrasmall Supported Nanoparticles from First Principles
12:55:00	13:30:00	Valedictory and Conclusion	