

# ICFO-TIFRH International School on the Frontiers of Light

23-25 October 2024

Venue: TIFR Hyderabad Auditorium

## Program

<b>Day-1</b> <b>23/10/2024</b> <b>Wednesday</b>	9.00 – 10.30 am	<b>Registration</b>
	10.30 – 11.00 am	<b>Welcome address</b>
	11.00 – 12.30 pm	<b>An Introduction to Quantum Optics</b> Prof. S. Lakshmi Bala Indian Institute of Technology Madras
	12.30 – 2.00 pm	<b>Lunch</b>
	2.00 – 3.30 pm	<b>Quantum features of the interaction of light and matter and their application to quantum technologies</b> Prof. Morgan Mitchell ICFO-The Institute of Photonic Sciences, Barcelona
	3.30 – 4.00 pm	<b>Quantum Optical Sensors of Magnetic Field</b> Dr. G. Rajalakshmi Tata Institute of Fundamental Research Hyderabad
	4.00 – 5.30 pm	<b>Coffee break &amp; Interactions @ Posters</b>
	5.30 – 6.00 pm	<b>Single Atom-Photon Quantum Interfaces</b> Dr. Vindhiya Prakash, <i>ICFO Alumni</i> Centre for Quantum Technologies, National University of Singapore
	6.00 – 7.00 pm	<b>Homi Jehangir Bhabha, TIFR and the Atomic Energy Programme</b> Prof. Mustansir Barma Tata Institute of Fundamental Research Hyderabad
	7.00 – 8.00 pm	<b>Dinner</b>

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<b>Day-2</b> <b>24/10/2024</b> <b>Thursday</b>	9.00 – 10.30 am	<b>NanoPhotonics Tricks to Look into Light Harvesting</b> Prof. Niek van Hulst ICFO-The Institute of Photonic Sciences, Barcelona
	10.30 – 11.00 am	<b>Interfacial Water Structure in Electrocatalysis</b> Dr. Anku Guha, <a href="#">TIFR Hyderabad Alumni</a> ICFO-The Institute of Photonic Sciences, Barcelona
	11.00 – 11.30 am	Coffee break
	11.30 – 1.30 pm	<b>Interactions @ Posters &amp; networking lunch</b>
	1.30 – 2.00 pm	<b>Group photo</b>
	2.00 – 3.30 pm	<b>Optothermal Tweezers: Evolutionary Brownian Dynamics</b> Prof. G. V. Pavan Kumar, <a href="#">ICFO Alumni</a> Indian Institute of Science Education and Research Pune
	3.30 – 4.00 pm	<b>Quantum Optics for Space Technologies: Quantum Lidar &amp; Non-classical Optical Clocks</b> Dr. Sankar Davuluri Birla Institute of Technology & Science Pilani, Hyderabad
	4.00 – 4.30 pm	Coffee break
	4.30 – 6.00 pm	<b>Quantum Computers and Cryptography: What Happens When Bits Become Quantum?</b> Prof. Antonio Acin ICFO-The Institute of Photonic Sciences, Barcelona
	6.00 – 6.30 pm	<b>Photonic Quantum Computing</b> Prof. C. M. Chandrashekar Indian Institute of Sciences Bengaluru, India
8.00 pm	<b>Frontier school dinner</b>	

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<b>Day-3</b> <b>25/10/2024</b> <b>Friday</b>	9.00 – 10.30 am	<b>Quantum measurements: A Tutorial Test Case in Atomic Magnetometry</b> Prof. Saikat Ghosh Indian Institute of Technology Kanpur
	10.30 – 11.00 am	<b>Supercontinuum Fiber Lasers</b> Dr. Arun S Indian Institute of Technology Bombay
	11.00 – 11.30 am	<b>High Tea</b>
	11.30 – 12.00 Noon	<b>Opportunities in Photonic Sciences</b> Prof. Robert Sewell ICFO-The Institute of Photonic Sciences, Barcelona
	12.00 – 12.30 pm	<b>Translating Research into Market Products</b> Dr. Deepak Jain Indian Institute of Technology Delhi
	12.30 – 12.45 pm	<b>Closing remarks</b>
	1.00 – 2.30 pm	<b>Interactions @ networking lunch</b>