

ICFO-TIFRH International School on the Frontiers of Light

23-25 October 2024

Venue: TIFR Hyderabad Auditorium

Program

Day-1 23/10/2024 Wednesday	9.00 – 10.30 am	Registration
	10.30 – 11.00 am	Welcome address
	11.00 – 12.30 pm	An Introduction to Quantum Optics Prof. S. Lakshmi Bala Indian Institute of Technology Madras
	12.30 – 2.00 pm	Lunch
	2.00 – 3.30 pm	Quantum features of the interaction of light and matter and their application to quantum technologies Prof. Morgan Mitchell ICFO-The Institute of Photonic Sciences, Barcelona
	3.30 – 4.00 pm	Quantum Optical Sensors of Magnetic Field Dr. G. Rajalakshmi Tata Institute of Fundamental Research Hyderabad
	4.00 – 5.30 pm	Coffee break & Interactions @ Posters
	5.30 – 6.00 pm	Quantum Optics for Space Technologies: Quantum Lidar & Non-classical Optical Clocks Dr. Sankar Davuluri Birla Institute of Technology & Science Pilani, Hyderabad
	6.00 – 7.00 pm	Homi Jehangir Bhabha, TIFR and the Atomic Energy Programme Prof. Mustansir Barma Tata Institute of Fundamental Research Hyderabad
	7.00 – 8.00 pm	Dinner

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Day-2 24/10/2024 Thursday	9.00 – 10.30 am	NanoPhotonics Tricks to Look into Light Harvesting Prof. Niek van Hulst ICFO-The Institute of Photonic Sciences, Barcelona
	10.30 – 11.00 am	Interfacial Water Structure in Electrocatalysis Dr. Anku Guha, TIFR Hyderabad Alumni ICFO-The Institute of Photonic Sciences, Barcelona
	11.00 – 11.30 am	Coffee break
	11.30 – 1.30 pm	Interactions @ Posters & networking lunch
	1.30 – 2.00 pm	Group photo
	2.00 – 3.30 pm	Optothermal Tweezers: Evolutionary Brownian Dynamics Prof. G. V. Pavan Kumar, ICFO Alumni Indian Institute of Science Education and Research Pune
	3.30 – 4.00 pm	Single Atom-Photon Quantum Interfaces Dr. Vindhiya Prakash, ICFO Alumni Centre for Quantum Technologies, National University of Singapore
	4.00 – 4.30 pm	Coffee break
	4.30 – 6.00 pm	Quantum Computers and Cryptography: What Happens When Bits Become Quantum? Prof. Antonio Acin ICFO-The Institute of Photonic Sciences, Barcelona
	6.00 – 6.30 pm	Photonic Quantum Computing Prof. C. M. Chandrashekar Indian Institute of Sciences Bengaluru, India
8.00 pm	Frontier school dinner	

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