ICFO-TIFRH International School on the Frontiers of Light

24-26 September 2025

Venue: TIFR Hyderabad Auditorium

Program

Day-1 24/09/2024 Wednesday	9.00 – 10.30 am	Registration
	10.30 – 11.00 am	Welcome address
	11.00 – 12.30 pm	Quantum interactions between free electrons and optical fields Prof. Javier García de Abajo ICFO-The Institute of Photonic Sciences, Barcelona
	12.30 – 2.00 pm	Lunch
	2.00 – 3.30 pm	Engineering Berry curvature Physics at buried interfaces in Quantum Material heterostructures Prof. Karthik V Raman TIFR Hyderabad
	3.30 – 4.00 pm	Vander waals magnets: An emerging playground for chiral spintronics Dr. Rana Saha Indian Institute of Science Education and Research Tirupati
	4.00 – 5.30 pm	Coffee break & Interactions @ Posters
	5.30 – 6.00 pm	Detection of low-energy optical responses in quantum materials via millikelvin far-infrared spectroscopy Dr. Ipsita Das, TIFR & ICFO Alumni Princeton University
	6.00 – 7.00 pm	Quintessentially quantum Prof. K. Thyagarajan Formerly at IIT Delhi
	7.00 – 8.00 pm	Dinner

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	9.00 – 10.30 am	Nonlinear Photonics
		Prof. Varun Raghunathan
		Indian Institute of Sciences Bangalore
	10.30 – 11.00 am	Quantum light for secure and multiuser quantum communication
		Prof. Joyee ghosh, ICFO Alumni
		Indian Institute of Technology Delhi
	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	Light in a blink: Harnessing few-cycle pulses for extreme photonics
Day-2		Prof. Jens Biegert
25/09/2025		ICFO-The Institute of Photonic Sciences, Barcelona
Thursday	3.30 – 4.00 pm	Plasma mirror, the optics for ultra-high intensity light
		Dr. Sudipta Mandal, TIFR Alumni
		ELI-ALPS, Hungary; Anubal Fusion, India
	4.00 – 4.30 pm	Coffee break
		Quantum materials in energy applications
	4.30 – 6.00 pm	Prof. T. N. Narayanan
		TIFR Hyderabad
	6.00 – 6.30 pm	Colloidal quantum dots and their potential optoelectronic applications
		Dr. Rajesh Bera
		ICFO-The Institute of Photonic Sciences, Barcelona
	8.00 pm	Frontier school dinner

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	9.00 – 10.30 am	SNSPDs: What's next for the best detectors nature can offer Prof. Cesare Soci Nanyang Technological University
	10.30 – 11.00 am	Physics & applications of optical spin defects Dr. Siddharth Dhomkar Indian Institute of Technology Madras
Day-3	11.00 – 11.30 am	High Tea
26/09/2025 Friday	11.30 – 12.00 Noon	Opportunities in photonic sciences Dr. Giovanna Pertillo ICFO-The Institute of Photonic Sciences, Barcelona
	12.00 – 12.30 pm	Opening horizons: Making quantum computing a practical reality Dr. Anjani Priyadarsini HPC & Research Lead – Amazon Web Services India
	12.30 – 12.45 pm	Closing remarks
	1.00 – 2.30 pm	Interactions @ networking lunch