

One-Day Discussion Meeting of Spectroscopy, Photonics and Dynamics – 2020 (SPD-2020)

7 March 2020, Asima Chatterjee Lecture Theatre, IISER Kolkata

TECHNICAL PROGRAMME

08:45 Registration

09:00 Inauguration

09:30-11:00 - Technical Session – 1

Ultrafast Corridor

Session Chair: Prof. Ranjit Biswas, SNBNCBS, Kolkata

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| IL-1 – 9:30 – 10:00 | Prof. Sobhan Sen JNU, New Delhi | What new we learn from extended dynamic Stokes shift measurements and large-scale atomistic simulation in DNA? |
| IL-2 – 10:00 – 10:30 | Prof. Pankaj Mandal IISER Pune | Probing the origin of self trapped excitons in 1D hybrid lead halide perovskites |
| IL-3 – 10:30 – 11:00 | Prof. Jyotishman Dasgupta TIFR, Mumbai | Tryptophan radical cation mediates charge transfer chemistry at the Cu-active site in Azurin |

11:00-11:20 – Tea Break

11:20-12:50 - Technical Session – 2

Intriguing Photoprocesses

Session Chair: Prof. Amitava Das, IISER Kolkata

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| IL-4 – 11:20 – 11:50 | Prof. Anshu Pandey IISc Bangalore | Optical studies of I-III-VI ₂ nanocrystals |
| IL-5 – 11:50 – 12:20 | Prof. Manik Pradhan SNBNCBS, Kolkata | Probing isotope-specific heavy and semi-heavy water by cavity ring-down spectroscopy |
| IL-6 – 12:20 – 12:50 | Prof. Chayan K. Nandi IIT Mandi | Dynamical exchange of protein corona improves cell internalization |

12:50-14:30 – Lunch Break

14:30-16:00 - Technical Session – 3

Essence of Physics

Session Chair: Prof. Dulal Senapati, SINP, Kolkata

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| IL-7 – 14:30 – 15:00 | Prof. Achanta Venugopal TIFR, Mumbai | Plasmon-exciton coupling in dispersionless plasmonic structures |
| IL-8 – 15:00 – 15:30 | Prof. Rangeet Bhattacharyya IISER Kolkata | Non-linearity and temperature dependence of light shifts in magnetic resonance and optical spectroscopy |
| IL-9 – 15:30 – 16:00 | Prof. Prasana Kumar Sahoo IIT Kharagpur | Emerging two-dimensional lateral heterostructures |

16:00-17:00 – Tea Break and Poster Session

17:00-18:30 - Technical Session – 4

Soft Matter and Biological Condiment

Session Chair: Prof. Arabinda Chaudhuri, IISER Kolkata

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| IL-10 – 17:00 – 17:30 | Prof. Surajit Dhara University of Hyderabad | Omnidirectional transport and navigation of Janus particles through a nematic liquid crystal film |
| IL-11 – 17:30 – 18:00 | Prof. Krishnananda Chattopadhyay IICB, Kolkata | Targeting the pathogenic fibrillation of α -synuclein using non-toxic and ultra-small luminescent gold nanoclusters |
| IL-12 – 18:00 – 18:30 | Prof. Ranabir Das NCBS, Bangalore | Inhibition of the host inflammatory response by bacterial deamidases |

18:30-18:40 – Concluding Session and Poster Awards