

Ph.D Degrees Awarded - 2022

Name of the PhD Scholar	Dept/Center	Name of the guide/s	Title of the thesis	Date of registration of the scholar	Degrees Awarded
Aastha Kumari	NCBS	Raghu Padinjat	Unique lipid kinase isoforms tune PI(4,5)P2 resynthesis during G-protein coupled PLC signaling in vivo	31/07/2017	2022
Abhishek Chaudhary	CAM	Ujjwal Koley	On kinetic and measure-valued solutions to fluid flow equations	20/08/2019	2022
Adwait Jayant Gaikwad	DTP	Gautam Madal	Non-Equilibrium Aspects of Quantum Systems and Black Holes with AdS ₂ /CFT ₁	04/05/2017	2022
Akhil Sivakumar	ICTS	Loganayagam Ramalingam	Effective theory of fluctuating hydrodynamics from holography	26/07/2018	2022
Amiya Mishra	DTP	Shiraz Minwalla	Aspects of Chern-Simons matter theories	30/08/2018	2022
Anamika Sharma	NCBS	Vatsala Thirumalai	Investigating the role of pre-synaptic IP3Rs in neuronal function	09/02/2018	2022
Anirban Das	DCS	Sudipta Maiti	Spectroscopically Guided Design of Peptide-Based Folding and Aggregation Modifiers	15/05/2017	2022
Anku Guha	TCIS	Narayanan T. N.	Electrode and Electrode-Electrolyte Interface Engineering for Heterogeneous Catalysis	27/02/2018	2022
Anupam Ray	DTP	Basudeb Dasgupta	Unravelling the Mystery of Dark Matter with Stars & Black Holes	29/01/2019	2022
Apurba Bera	NCRA	Jayaram Chengalur	THE EVOLUTION OF NEUTRAL ATOMIC GAS IN STAR-FORMING GALAXIES	26/07/2017	2022
Archit Bhardwaj	TCIS	Karthik V. Raman	A Study of the Electronic Transport Properties of 3D-Topological Insulators and Magnetic Proximity Effects	28/07/2017	2022
Aridni Shah	NCBS	Axel Brockmann	Egr-1, A Candidate Molecular Player Involved in Time-Related Learning and Memory Processes in Honey bees	31/07/2017	2022
Arindam Pramanik	DCMPMS	Kalobaran Maiti	Anomalies in the Dirac States - a high-resolution photoemission spectroscopic study	01/08/2017	2022
Ashutosh Shukla	NCBS	Sumantra Chatterjee	Stress, amygdala and innate responses to emotionally salient ultrasonic vocalization calls in rats	02/02/2017	2022
Avijit Das	ICTS	Abhishek Dhar	Transport and correlations in one-dimensional interacting particle systems	22/05/2017	2022
Barnali Das	NCRA	Poonam Chandra	Coherent radio emission from hot magnetic stars	04/05/2018	2022
Bhupendra Ramesh Dandekar	TCIS	Jagannath Mondal	Investigation of Protein Conformation and ligand-recognition using Computer Simulations	28/07/2017	2022
Chandan Dinesh Bagdia	DNAP	Lokesh Tribedi	Ion-atom collision processes in PAH and related molecules	27/07/2016	2022
Debankur Das	TCIS	Kabir Ramola	Displacements, deformation and response in systems of particles with strong two dimensional coupling	28/07/2017	2022

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Dibyendu Bala	DTP	Saumen Datta	Study of QCD at finite temperature using anisotropic lattice regularization: Finite temperature potential for the study of quarkonia in QGP	30/06/2017	2022
Durgaprasad Karnam	HBCSE	Aniket Sule / Sanjay Chandrasekharan	Touchy Feely Vectors: A design-based study examining the role of representational media in STEM cognition	26/12/2016	2022
Ganesh Kiran Vaidya	CAM	Shyam Sundar Ghoshal	Well-posedness and BV regularity for conservation laws with BV spatial flux in one and several space dimensions	10/09/2018	2022
Gunjan Kumar	STCS	Umang Bhaskar	Partial Function Extension with Applications to Learning and Property Testing	16/01/2017	2022
Joydeep Chakravarty	ICTS	Suvrat Raju	Quantum aspects of black holes: The bags of gold and monogamy paradoxes	24/07/2018	2022
Krishna Rani Sahoo	TCIS	T. N. Narayanan	Heterostructuring and Doping of Atomic Layers for Enhanced Magnetic Ordering, Spin-Orbit Coupling and Charge Transfer Properties	22/06/2018	2022
Krithika Badarinath	NCBS	Sudhir Krishna	Understanding the role of Snail in maintaining the stem/progenitor state of epithelial cells in cancer	07/07/2016	2022
Lankeswar Dey	DAA	A. Gopakumar	Massive black hole binaries: Observational and theoretical implications	15/03/2018	2022
Mahbub Alam	Maths-Mumbai	Anish Ghosh	Equidistribution on Homogeneous Spaces and Diophantine Approximation	05/04/2018	2022
Mandar Dattaram Bopardikar	DCS	ASR Koti / R. V. Hosur	Biophysical studies and NMR developments to understand inhibition of alpha-synuclein fibrillization by Triphala and its constituents	08/09/2016	2022
Meenakshi Gaira	DHEP	C. S. Unnikrishnan	Studies of High-Q Whispering Gallery Modes in dynamic liquid microsphere cavities coupled to sub-micron tapered fibers	21/06/2016	2022
Mona Gupta	DCS	A.S.R. Koti	Modulating Mechanical Properties of β -Rich Proteins	30/12/2016	2022
Namrata Shukla	DBS	Ullas Kolthur	Investigating molecular mechanisms that encode plasticity and memory in cellular and organismal physiology	13/03/2018	2022
Nikhita Pasnuri	TCIS	Aprotim Mazumder	Buffered EGFR signaling regulated by spitz to argos expression ratio is critical for patterning the Drosophila eye	28/07/2017	2022
Pavan Kumar Kaushik	NCBS	Shannon Olsson	Prakruti mayé : Using Virtual Reality to deconstruct insect ecology	31/07/2017	2022
Payel Chatterjee	NCBS	Sanjay Sane	Sensory feedback control of head stabilization in hawkmoths	28/01/2015	2022

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Prashant Shivaji Arote	Maths-Mumbai	Tanmay Deshpande	Cohomology of bimultiplicative local systems on unipotent groups and G-crossed Frobenius *-algebras	06/06/2018	2022
Prerona Chatterjee	STCS	Ramprasad Saptarishi	Hardness and Independence of Polynomials	29/01/2018	2022
Rahaman S. K. Minhajur	NCRA	Dipanjan Mitra	On the nature of radio emission mechanism in pulsars	4/6/2018	2022
Rahul Kumar Gupta	TCIS	Prasad Perlekar /Shrira Ramaswamy	Simulations and Theory in Active Granular Matter: Nonequilibrium Phase Transitions and Nonreciprocal Interactions	02/08/2016	2022
Rahul Kumar Singh	ICTS	Samridhhi Shankar Ray	Lagrangian Statistics in High and Low Re Number Flows: From Filaments in Fully Developed Turbulence to Tracers in Bacterial Suspensions	19/07/2018	2022
Rahul S. V.	TCIS	M. Krishnamurthy	High Field Science using not-so-intense Lasers	28/07/2017	2022
Rahul Sharma	TCIS	Narayanan T. N.	Studies on the Vapor Transport Assisted Growth of Two-Dimensional Atomic Layers and Their Heterostructures for Opto-Electronic Devices and Catalysis	30/01/2018	2022
Rashmi Ramaadugu	TCIS	Prasad Perlekar / Rama Govindarajan	Linear stability and numerical studies of interfacial and buoyancy-driven bubbly flows	07/03/2016	2022
Rohini Subrahmanyam	NCBS	Sumantra Chattarji	Effects of Fragile X Syndrome and Metabotropic Glutamate Receptors on Presynaptic Function	02/02/2017	2022
Sahana Sitaraman	NCBS	Vatsala Thirumalai	Regulation of Purkinje neuron dendritic arborisation by Gjd2b gap junction protein in larval zebrafish	02/02/2017	2022
Santhosh Ganapa	ICTS	Abhishek Dhar	Thermalization, chaos and hydrodynamics in classical Hamiltonian systems.	23/07/2018	2022
Satyaki Sasmal	TCIS	Kartik. V. Raman	Transport study of the localization behavior and magnetic proximity effect in three dimensional topological insulator Bi ₂ Se ₃	22/06/2018	2022
Saurabh Chaudhary	TCIS	Karthik V. Raman	Investigation of metal-molecule interface interactions at monolayer scale using novel experimental techniques	05/07/2016	2022
Sayantana Chakraborty	STCS	Pranab Sen	A Study of Information Transmission over Quantum Channels in the One Shot Setting	29/01/2018	2022
Shamasree Ghosh	TCIS	Kanchan Garai	Biophysical Characterization of the Interactions between Apolipoprotein E and Amyloid- β	12/06/2017	2022
Shilpi Nagpal	NCBS	Anjana Badrinarayan / Deepak Nair	Biochemical characterization of the X- family DNA polymerase from Staphylococcus aureus	28/01/2015	2022
Shirish R. Pathare	HBCSE	Savita Ladage	Investigating students' alternative conceptions in elementary thermodynamics and developing and testing activity-based modules to address them	05/09/2006	2022

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Shishu Pal Singh	NCBS	Axel Brockman / M. M.Panicker	Molecular promiscuity and serotonin receptors	31/01/2012	2022
Siddharth Bhandari	STCS	Prahladh Harsha	Exact Sampling & List-Decoding	30/01/2018	2022
Somnath Chakraborty	STCS	Hariharan Narayanan	FOURIER ANALYTIC TECHNIQUES IN MACHINE LEARNING	02/04/2018	2022
Souradeep Sarkar	NCBS	Sowdhamini R	DDX24, a D-E-A-D box RNA helicase, is required for muscle fiber organization, anterior pole determination, and positional information re-specification essential for head regeneration in planarians.	09/02/2018	2022
Souvik Manna	NCRA	Subhashis Roy	Low Radio Frequency Study of Local Volume Large Galaxies	12/10/2017	2022
Sreemantee Sen	NCBS	Jayant Udgaonkar	Folding and dynamics of intrinsically disordered and globular proteins	07/07/2016	2022
Subhrajyoti Dolai	TCIS	Kanchan Garai	Biophysical Characterization of Structure-Function Differences in the Apolipoprotein E Isoforms	19/08/2016	2022
Sucheta Kulkarni	NCBS	Sandhya Koushika	Identifying novel molecules which regulate the presynaptic vesicle transport pathway and role of UNC-16 in neuronal regeneration	04/02/2010	2022
Sumeru Hazra	DCMPMS	R. Vijayaraghavan	Enhancing qubit connectivity in superconducting quantum processors	23/03/2017	2022
Sumit Bawari	TCIS	T.N. Narayanan / Jagannath Mondal	Understanding the Structure - Catalytic and Electron Transport Property Correlations of Graphitic Nanostructures and Platinum Surfaces	04/04/2018	2022
Supriya Mandal	DCMPMS	Mandar Deshmukh	Study of magnon dynamics and magnon-photon coupling with van der Waals antiferromagnet	12/04/2018	2022
Surajit Dutta	DCMPMS	Pratap Raychaudhuri	Real Space Investigation of Vortex State in Two Dimensional Superconductors	02/05/2018	2022
Suvasis Swain	DNAP	Vaibhav Prabhudesai	Dynamics of hydride ion formation from electron collision with molecular hydrogen	24/07/2017	2022
Tathagata Nandi	DCS	A. S. R. Koti	Energy Landscapes of Ubiquitin and SUMO Proteins: Role of Protein Sequence and Salt Bridges in Folding Pathway	28/05/2018	2022
Upamanyu Moitra	DTP	Sandip Trivedi	Aspects of Quantum Gravity, Holography and Entanglement	16/03/2018	2022
Varun Narayanan	STCS	Vinod Prabhakaran	Secure Multiparty Computation with Limited Connectivity	16/01/2017	2022
Vedansh Arya	CAM	Agnid Banerjee	Some qualitative and quantitative properties of solutions to parabolic equations	29/07/2020	2022