

Ph.D Degrees Awarded - 2021

Name of the PhD Scholar	Dept/Center	Name of the guide/s	Title of the thesis	Date of registration of the scholar	Degrees Awarded
Abhimanyu S	DAA	Gopakumar A.	Perspectives in nanohertz gravitational wave astronomy	01/09/2017	2021
Abhishek Das	CAM	K. T. Joseph Agnid Banerjee	Analysis of the initial value problem for two specific non-strictly hyperbolic systems	28/08/2017	2021
Abhishek Khetan	Maths-Mumbai	Mahan MJ	Geometric and Analytical Methods in Combinatorial Problems	18/05/2018	2021
Abhishek Kumar Singh	STCS	Raja N.	Formalizing Finite Set Combinatorics in Type Theory	10/03/2015	2021
Aditya Nema	STCS	Pranab Sen	Some Derandomised Constructions in Quantum Information Processing	28/01/2016	2021
Amit Sharma	HBCSE	Sugra Chunawala	Inclusive Science Education in Elementary and Secondary Schools With a Focus on Strategies for Teaching Science to Students With Visual Impairments	18/02/2011	2021
Amritendu Mukhopadhyay	NCBS	Mahesh Sankaran	The ecology and evolution of floral strategies of Clerodendrum infortunatum	01/07/2011	2021
Anamay Gurunath Tengse	STCS	Ramprasad Saptarishi	Hitting Sets for Algebraic Models: Constructions and Consequences	16/01/2017	2021
Anand Avinash Deo	STCS	Sandeep Juneja	An Asymptotic Study of Risk in Financial Systems – Algorithms and Analysis	16/01/2017	2021
Anubhab Khan	NCBS	Uma Ramakrishnan	The population genomics of isolated tigers in the wild	07/07/2016	2021
Anugu Sumith Reddy	ICTS	Amit Apte	Asymptotic Properties of Non-linear Filters	17/05/2017	2021
Arkadipta Sarkar	DHEP	Varsha Chitnis	Geometric Origin of Blazar Variability	24/07/2017	2021
Arunabha Sarkar	NCBS	Sandeep Krishna	A neurotransmitter metabolism and modification critical in naria (Schmidtea mediterranea) organ re-gensis	03/07/2015	2021
Avijit Maiti	TCIS	Anukul Jana	Synthesis and Characterization of Rationally Designed Carbene-Based Kekulé and non-Kekulé Diradicals	20/03/2017	2021
Avishek Ghosh	NCBS	Raghu Padinjat	Identifying the biochemical messenger for Phosphatidylinositol 5-phosphate 4-kinase (PIP4K) function in Drosophila	28/01/2015	2021
Ayan Maity	DCS	Vivek Polshettiwar	Dendritic Fibrous Nanomaterials (DFNMs): Synthesis, Formation Mechanism and Catalysis	15/02/2016	2021
Banoj Kumar Nayak	DCMPMS	Achanta Venugopal	Light-Matter Interaction in Plasmonic and Photonic Structures	21/06/2016	2021
Biny Sebastian	NCRA	Priti Kharb	Understanding Radio Outflows in Seyfert Galaxies	08/11/2016	2021
Bishal Basak	NCBS	Raghu Padinjat	Regulation of multi-domain Phosphatidylinositol transfer proteins (PITPs) in vivo	02/02/2017	2021
Chandan Kumar Jana	ICTS	Loganayagam Ramalingam	Aspects of open quantum field theories	21/04/2017	2021

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Dattaraj Bhalchandra Dhuri	DAA	Shravan Hanasoge	Machine Learning Studies of Pre-flare and Pre-emergence Magnetic Fields in Solar Active Regions	04/04/2016	2021
Dheeraj Prakashchand Dube	TCIS	Surajit Sengupta/ Jagannath Mondal	Exploring Protein Dynamics: Conformational Heterogeneity and Collective Variables	28/07/2017	2021
Farhan Sabir Babra	DNAP	Rudrajyot Palit	High spin structures of neutron-deficient nuclei in A [?] 130 mass region	06/03/2017	2021
Imon Mandal	DCS	Ravindra Venkatramani	Discovery and Characterization of New charge Transfer Transitions in Optical UV-Vis Spectra of Proteins Rich in Charged Amino Acids	08/06/2015	2021
Indranil Halder	DTP	Shiraz Minwalla	Aspects of Matter Chern-Simons Theories: Phases, Response and Duality	16/11/2017	2021
Jaya Krishna	TCIS	Jagannath Mondal	Understanding Bio-molecular Recognition of Various Biological Systems	30/12/2016	2021
Kaivalya Sudesh Walawalkar	NCBS	Dimple Notani	Rare genetic variation in an enhancer confers Prostate cancer susceptibility by activation of a lncRNA hub at 8q24 locus	09/02/2018	2021
Kanika Gupta	NCBS	Sumantra Chattarji	Spatio-temporal Features of Stress-induced Plasticity Across Biological Scales	31/07/2017	2021
Kasi Jaswin	ICTS	Loganayagam Ramalingam/ Pallab Basu	Aspects of Conformal and Thermal Field Theories	23/11/2015	2021
Kiran Sankar Chatterjee	NCBS	Ranabir Das	On the Structure to Function Relation of SUMO Folds	02/02/2017	2021
Kuldeep	NCBS	Varadharajan Sundaramurthy	Role of the macrophage endo-lysosomal system in shaping the outcome of intracellular Mycobacterium tuberculosis infection	02/02/2017	2021
Lalitha Krishnan	NCBS	Mahesh Sankaran	The effects of pulsed rainfall on the growth and survival of dry forest tree seedlings	09/07/2012	2021
Lokrshi Prawar Dhadichi	TCIS	Surajit Sengupta/ Sriram Ramaswamy	Active Matter: fundamentals, non-mutual interactions and anomalous hydrodynamics	01/08/2017	2021
Mainak Ghosh	Maths-Mumbai	Amalendu Krishna	Bertini Theorems, Class Field Theory and Roitman Torsion for Open Varieties	01/03/2019	2021
Md Sazedur Rahaman Laskar	DNAP	Rudrajyot Palit	Nuclear structure of Lanthanum isotopes approaching N=82 shell gap using lifetime and moment measurements	06/03/2017	2021
Mukul G Jain	TCIS	P. K. Madhu/ Vipin Agarwal	Novel and Augmented Methods for Distance Estimation with Magic-Angle Spinning Solid-State NMR	07/04/2016	2021
Nairit Sur	DHEP	Tariq Aziz /Shashi Dugad	Search for Charged Charmonium-like Z (Tetraquark) States with the CMS Experiment at LHC	26/06/2013	2021
Navdeep Rana	TCIS	Prasad Perlekar	Incompressible Polar Active Matter: Defects, Coarsening and Turbulence	28/07/2017	2021

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Neeraj Singh Bhauryal	CAM	Ujjwal Koley	On a fractional conservation laws with noise	14/09/2017	2021
Nihav Dhawale	NCBS	Mukund Thattai/ Madhusudhan Venkadesan	How to run on uneven terrain	02/07/2013	2021
Pabitra Nandy	NCBS	Aswin Sai Narain Seshasayee	Study of slow growth as a repeatable strategy to gain transient fitness during evolution in long term stationary phase	02/02/2017	2021
Pappu Acharya	TCIS	Surajit Sengupta/ Kabir Ramola	Fluctuations and Defect Interactions in Athermal Crystals	04/08/2016	2021
Parijat Sil	NCBS	Satyajit Mayor	Actomyosin driven organization of plasma membrane proteins at multiple spatial scales	04/02/2014	2021
Prasuna Bandi	Maths-Mumbai	Anish Ghosh	Ergodic Theory and Quadratic Forms	06/04/2018	2021
Pritam Majumder	Maths-Mumbai	Amitava Bhattacharya	Two problems in combinatorics	20/09/2016	2021
Priyesh Mohanty	NCBS	Ranabir Das	Inhibition of the Ubiquitin pathway by Glutamine Deamidation: Insights from Molecular Dynamics simulations	07/07/2016	2021
Purna Sham Gadre	DBS	Krishanu Ray	Regulation of stem cell proliferation and that of its progeny in the Drosophila testis	30/11/2016	2021
Pushkal Shrivastava	ICTS	Suvrat Raju	Black Holes And Holography	27/04/2017	2021
Rahul Chajwa	ICTS	Govindaarajan R/Sriram Ramaswamy /Narayan Menon	Driven Stokesian Suspensions: Particle Anisotropy, Effective Inertia and Transient Growth	13/10/2016	2021
Riddhi Madhav Deshmukh	NCBS	Krushnamegh Kunte	Genetic and developmental bases of wing patterns in Papilio swallowtail butterflies	07/07/2016	2021
Ritabrata Thakur	ICTS	Rama Govindarajan	Nonlinear Instability and Turbulence Suppression in Stratified Flows	19/08/2016	2021
Rossi D'souza	HBCSE	K. Subramaniam	Exploring Implications of the Social Model of Disability for Mathematics Education	11/03/2015	2021
Saibal Khan	CAM	Imran Biswas	Hyperbolic conservation laws with noise: regularity and stability of sample paths of stochastic entropy solutions	28/08/2017	2021
Saikatul Haque	CAM	Sandeep K	Some Results on Schrödinger Equation	28/08/2017	2021
Sandeep Kumar Acharya	DTP	Rishi Khatri	Cosmological probes of electromagnetic and neutrino energy injection at high redshifts	27/07/2017	2021
Sandhya Bhatia	NCBS	Jayant Udgaonkar	Resolving Site-Specific Structural Heterogeneity in Protein Folding and Unfolding Reactions	10/02/2016	2021
Sanjoy Paul	DCS	Ravindra Venkatramani	Quantitative Energy Landscape Sensitive Metrics for Assessment of Sampling and Protein Dynamics in Computer Simulations	08/02/2017	2021
Saurabh Kishore Mahajan	NCBS	Deepa Agashe	Microevolutionary forces and the macroevolution of bacterial genome sequence properties	07/07/2016	2021

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Sayani Das	DCS	Ankona Datta	Design and Development of Optical Probes for Tracking Essential and Toxic Metal Ions	18/08/2015	2021
Shikha Takker	HBCSE	Subramaniam K.	Investigating and Supporting Teachers' Knowledge of and Responses to Students' Mathematical Thinking	04/10/2011	2021
Shivani Ashwin Upadhyay	DBS	Rao B. J. Ullas Kolthur	Regulation of Photosynthesis and Respiration by TOR kinase in <i>Chlamydomonas reinhardtii</i>	05/08/2016	2021
Shreyasi Datta	Maths-Mumbai	Anish Ghosh	S-Arithmetic Diophantine Approximation on Manifolds	13/06/2017	2021
Soham Bhattacharya	DHEP	Manoranjan Guhait	Top squark search in a ditau final state with the CMS detector and a study of the impact of using the HO calorimeter for the CMS Level-1 muon trigger	06/03/2017	2021
Srishti Tiwari	DAA	A. Gopakumar	Gravitational waves from inspiraling eccentric binaries: Modeling and Data analysis	19/06/2017	2021
Subhajit Ghosh	DTP	Tuhin S. Roy	Higgsed effective operators for model building and phenomenology in particle physics and cosmology	17/07/2017	2021
Suhail Sherif	STCS	Arkadev Chattopadhyay	Communication Complexity and Quantum Optimization Lower Bounds via Query Complexity	06/01/2017	2021
Sujoy Chakraborty	Maths-Mumbai	Indranil Biswas	On Chow Group Of 1-cycles And Abel-Jacobi Maps On The Moduli Space Of Parabolic Bundles Over A Curve	17/08/2017	2021
Suman Kumar Sahoo	CAM	Venkateswaran P. Krishnan	Inverse problems related to integral geometry and a parabolic partial differential equation	28/08/2017	2021
Sumit Roy	Maths-Mumbai	Indranil Biswas	Geometry of the moduli space of symplectic and orthogonal parabolic Higgs bundles	10/07/2018	2021
Surajit Mondal	NCRA	Divya Oberoi	Studying the extremes of solar activity using high dynamic range low frequency solar images	28/07/2017	2021
Sushma Kurapati	NCRA	Jayaram N. Chengalur	Angular momentum and dark matter in void dwarf galaxies	05/08/2016	2021
Tanay Nitinkumar Bhatt	NCBS	Sudhir Krishna	Understanding the Regulation of Caspase-8 during Wound-healing	07/07/2014	2021
Teerna Bhattacharya	NCBS	Sowdhamini R.	Sequence and Structural Analyses of Tyrosine Phosphatases	31/07/2017	2021
Tushna Kapoor	DBS	Krishanu Ray	Cell Biology of Spermatid Maturation in <i>Drosophila</i>	04/12/2017	2021
Urbashi Basu	NCBS	Raghu Padinjat	Phosphoinositides: Potential regulators of wing venation patterning in <i>Drosophila melanogaster</i>	02/07/2013	2021
Uttiya Sarkar	DHEP	Gagan Mohanty	Search for new Physics in the final state of High-Momentum Z Bosons and missing transverse momentum at CMS	17/07/2017	2021

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Vasvi Tripathi	NCBS	Ranbir Das	Interaction between Human Cytomegalovirus Immediate Early Proteins and Host SUMOylation Pathway	31/07/2017	2021
Vikash Pandey	TCIS	Prasad Perlekar	Statistical Studies of particles in turbulence at high mass loadings	28/07/2017	2021
Vishal M. V.	DTP	Sandip Trivedi	Aspects of Near-Extremal Black Holes	11/11/2016	2021
Vrinda Ravi Kumar	NCBS	Deepa Agashe	Adjust and Adapt : Behavioural and Evolutionary Responses of a Generalist to Novel Environments	02/02/2017	2021
Zoheb Ahmed	DBS	Krishanu Ray	Structural characteristics of the heterotrimeric kinesin-2 stalk and its functional significance	09/10/2015	2021