

Ph.D Degrees Awarded - 2018

Name of the PhD Scholar	Dept/ Center	Name of the guide/s	Title of the thesis	Date of registration of the scholar	Degrees Awarded
Abhishek Johri	NCRA	Manoharan P. K.	Acceleration and Evolution of Solar Energetic Particle Events in the Sun-Earth Distance	21/07/2015	2018
Aliasgar Bohra	NCBS	Vijayaraghavan K.	Motor neuron and interneuron architecture, function and connectivity reveal a new circuit component in the <i>Drosophila gustatory</i> system	28/01/2015	2018
Ankit Sood	DBS	Vidita Vaidya	Sexually Dimorphic Effects of Acute Stress on Neural Activation Patterns and Neuroimmune Signalling	03/07/2015	2018
Anshul Deep Singh Parmar	TCIS	Smarajit Karmakar Srikanth Sastry	Fragility and Heterogeneity in Glass Forming Liquids and Characterization of the Yield Transition Under Oscillatory Shear	07/07/2014	2018
Anveshna Srivastava	HBCSE	Sanjay Chandrasekharan	The cognitive role of external representations in understanding DNA structure	05/05/2009	2018
Arjun Paul	Maths-Mumbai	Indranil Biswas	On Equivariant Bundles, Logarithmic Connections and Moduli of Principal Bundles	08/05/2014	2018
Arka Mallick	CAM	Sandeep K.	Inequalities with singular weights in the Euclidean space and the Heisenberg group	04/04/2014	2018
Arnab Roy	CAM	Mythily Ramaswamy	Existence, Controllability and Stabilization of fluid models	05/01/2015	2018
Aswathy Raveendran	HBCSE	Sugra Chunawala	Conceptualizing Critical Science Education through Socioscientific Issues	23/07/2015	2018
Baljeet Singh	DCS	Vivek Polshettiwar	Fibrous Nanosilica: Tunable Synthesis, Its Applications and Novel Materials Design	27/03/2015	2018
Bappaditya Chandra	DCS	Sudipta Maiti /P. K. Madhu	Understanding amyloid aggregation in terms of its distal folding contacts	27/03/2015	2018
Bibhuprasad Mahakud	DHEP	Gagan Mohanty	Search for Supersymmetry, Leptoquarks and Study of Advanced Pileup Mitigation Techniques	26/08/2014	2018
Bipan Kumar Deb	NCBS	Gaiti Hasan	Regulation of store-operated Ca ²⁺ entry by Septins	29/05/2015	2018
Chaitali Khan	DBS	Rao B. J.	DNA damage response and Tissue homeostasis in <i>Drosophila</i> wing imaginal disc: a mechanistic study	28/01/2015	2018
Debjyoti Bardhan	DTP	Sreerup Raychaudhuri	Probing New Physics in Weak Decays and Flavour-Changing Processes	05/12/2016	2018
Deepesh Kumar Data	STCS	Vinod M. Prabhakaran	Communication Complexity and Characterization Results in Secure Computation	08/07/2015	2018
Dwaipayan D. Gupta	DCS	Shyamalava Mazumdar	Mononuclear copper(II) complexes with the residues in the metal ion binding peptide loop of the CuA center of cytochrome oxidase	08/08/2013	2018
Farah Haque	NCBS	Sowdhamini R.	Studying primary inherited cardiomyopathies at multiple levels of organization	12/06/2015	2018

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Jacky Kumar	DHEP	Manoranjan Guchait	Phenomenology of Next-to-Minimal Supersymmetric Standard Model in the light of Higgs discovery	12/06/2015	2018
Kabir Bazmi Husain	NCBS	Satyajit Mayor	The Mechanics of Cell Surface Clusters and Their Role in Signalling	10/06/2015	2018
Kamalesh Kumari	DBS	Shobona Sharma /Raghu Padinjat	Regulation of endocytic transport by phosphatidylinositol 5 phosphate 4-kinase (PIP4K) in Drosophila	23/06/2014	2018
Khadiza Ali	DCMPMS	Kalobaran Maiti	Role of Magnetism and Crystal Structure in Superconductivity	05/08/2015	2018
Kritika Sadh	DBS	Roop Mallik	Metabolic control of association of raftophilic and motor proteins with lipid droplets in liver	02/09/2015	2018
Lena Mareike Josefine Robra	NCBS	VatsalaThirumalai	Characterization and perturbation of Darpp-32 in zebrafish	26/12/2014	2018
Mandira Mondal	Maths-Mumbai	Vijaylaxmi Trivedi	Hilbert-Kunz Density Function and Asymptotic Hilbert-Kunz Multiplicity	09/07/2012	2018
Mangesh M. Mandlik	DTP	Shiraz Minwalla	Scattering in Chern-Simons Theories and Black Holes in Large D	01/05/2015	2018
Manmohan Vashisth	CAM	Venkateswaran P. Krishnan	Some Inverse Problems in Hyperbolic Partial Differential Equations	07/07/2014	2018
Minal Jaggar	DBS	Vidita Vaidya	Neuronal pathways mediating vulnerability/resilience in stress and antidepressant action	11/08/2016	2018
Mugdha Sathe	NCBS	Satyajit Mayor Mukund Thattai	Understanding events leading up to CLIC/GEEC endocytic vesicle formation using BAR domains and actin machinery	28/10/2015	2018
Neha Nandwani	NCBS	Jayant Udgaonkar	Rational Design of Domain Swapping in Proteins	15/04/2015	2018
Nitesh Saxena	NCBS	Sanjay Sane	Role of multiple sensory cues in odor localization by fruit flies	10/02/2016	2018
Palas Roy	DCS	Jyotishman Dasgupta	Probing the Fate of Excitons in Organic Semiconductors	15/01/2015	2018
Prajakt P. Pande	HBCSE	Sanjay Chandrasekharan	Rethinking Representational Competence: Cognitive mechanisms, empirical studies, and the design of a new media intervention	28/01/2015	2018
Prakash Gaikwad	NCRA	Tirthankar Roy Choudhury	Efficient hydrodynamical simulations of the intergalactic medium and parameter estimation	27/03/2015	2018
Pranjal Nayak	DTP	Gautam Mandal	Aspects of Quantum Gravity & Strongly Coupled Field Theories	26/03/2015	2018
Rahul Gupta	Maths-Mumbai	Amalendu Krishna	K-theory and 0-cycles on schemes	07/07/2014	2018
Rama Reddy Goluguri	NCBS	Jayant Udgaonkar	Role of sub-millisecond dynamics in protein folding and misfolding	07/07/2014	2018

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Randhir Kumar	DNAP	Sushil Majumdar	Localization and Amplification of Light in Low-dimensional Disordered Systems	18/07/2013	2018
Rickmoy Samanta	DTP	Sandip Trivedi	Anisotropic Black Branes, Shear Viscosity and possible experimental implications	30/04/2014	2018
Rini Ganguly	DCMPMS	Pratap Raychaudhuri	Experimental investigations on disordered and low dimensional Superconductors	03/02/2015	2018
Ruchi S. Kumar	HBCSE	Subramaniam K.	Supporting In-service Professional Development of Mathematics Teachers: The Role of Beliefs and Knowledge	07/07/2014	2018
Sagnik Mukhopadhyay	STCS	Arkadev Chattopadhyay	Communication Complexity Amplification by Function Composition	24/07/2015	2018
Sameer Grover	DCMPMS	Mandar Deshmukh	Optoelectronic properties and photoresponse of graphene	08/05/2014	2018
Samir Gupta	DBS	Krishanu Ray	Molecular characterization of somatic control of germline proliferation in adult Drosophila testis	29/07/2016	2018
Samsuzzoha Mondal	DCS	Ankona Datta	Design and Development of Optical Probes for Imaging Signal Mediating Phospholipids	31/07/2015	2018
Sharath K Jose	TCIS	Rama Govindarajan	Stratification and rotation effects on plane shear flow stability and transition	01/05/2015	2018
Shlesha Rajesh Richhariya	NCBS	Gaiti Hasan	Investigating the role of store-operated calcium entry in neurons : Gene expression and physiological functions	27/01/2015	2018
Shreya Ghosh	DBS	Vidita Vaidya	Regulation of Metabolism and Mood by Genetic and Environmental Factors	27/08/2015	2018
Shuddhodan Kadattur Vasudevan	Maths-Mumbai	Srinivas V.	Self maps of varieties over finite fields	08/07/2014	2018
Sombuddha Bhattacharya	CAM	Venkateswaran P. Krishnan	Inverse problems on Riemannian manifolds	01/05/2015	2018
Sorokhaibam Nilakash Singh	DTP	Gautam Mandal	Quantum Dynamics, Thermalization and Black Holes	04/02/2014	2018
Soureek Mitra	DHEP	Tariq Aziz Gagan B. Mohanty	Measurement of single top t-channel production cross-section and top quark mass in single top events using CMS detector	10/02/2016	2018
Sthitapranjya Pati	DBS	Vidita Vaidya	Effects of Gq-driven signaling on the regulation of mood related behavior	18/07/2014	2018
Subhrangsu Sarkar	DCMPMS	Pushan Ayyub	Finite size effect in metal nanoparticles: Complex interplay of quantum size, surface and lattice deformation effects	28/06/2016	2018
Swagata Dey	DBS	Krishanu Ray	Modalities of Kinesin-2 mediated axonal transport in Drosophila melanogaster and their implications	31/08/2015	2018
Varghese Babu	DHEP	Tariq Aziz /Gagan B. Mohanty	Search for CP Violation in the Charmed Meson Sector and Assembly of the Silicon Vertex Detector Modules of the Belle II Experiment	01/10/2013	2018

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Vijaya Lakshmi K.	DCS	Jyotishman Dasgupta	Regulation of all-trans-lycopene in Photosynthetic Organisms: Role of Light and Redox Equivalents	22/04/2015	2018
Vinutha H.A.	TCIS	Smarajit Karmakar	Shear induced geometry and jamming in sphere packings	28/08/2015	2018