

### Degrees Awarded - 2017-18

Name of the PhD scholar	Name of the Department	Name of the guide/s	Title of the thesis	Year of registration of the scholar	Year of award of PhD
Hemanth Giri Rao Vantha	NCBS	Sachi Gosavi	Understanding Protein Structure and Function through Computational Folding of Coarse-Grained Protein Models	09/07/2012	2017
Arun Kumar Naidu	NCRA	Bhal Chandra Joshi	Single pulse studies of radio pulsars resulting from a newly developed pulsar instrument at the Ooty Radio Telescope	29/01/2014	2017
Roumita Moulick	NCBS	Jayant Udgaonkar	Characterizing the Nature of Energy Barriers in the Folding of the Prion protein	08/07/2010	2017
Aditya J.N.H.S.	NCRA	Nissim Kanekar	Cold gas in high redshift galaxies	27/02/2014	2017
Krishnendu Gope	DNAP	Vaibhav Prabhudesai	Structure and Dynamics of Excited States of Molecular Anions	08/11/2012	2017
Carina B. Maliakkal	DCMPMS	Arnab Bhattacharya	Synthesis and Characterization of Wurtzite III-V Semiconductor Nanowires	06/05/2013	2017
Deepshikha Verma	DCS	Chary K.V. R.	Structural and functional characterization of an unusual Ca <sup>2+</sup> -binding protein from <i>E. histolytica</i>	28/03/2013	2017
Deep Ray	CAM	Praveen Chandrashekarappa Siddharth Mishra(ETH Zurich)	Entropy-stable finite difference and finite volume schemes for compressible flows	08/11/2013	2017
Bhamidi Sai Somanjana S	Maths-Mumbai	Amalendu Krishna	K-Theory and Chow Groups of Quotient Deligne-Mumford Stacks	14/08/2013	2017
Radhika Sudhir Joshi	NCBS	M. M. Panicker	Understanding the role of 5-HT <sub>2A</sub> in the behavioral and biochemical effects of antipsychotics	01/07/2011	2017
Farhana Yasmin	NCBS	Sumantra Chattarji	Characterisation and reversal of the delayed synaptic effects of acute stress in the amygdala	29/07/2011	2017

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Varun Varma	NCBS	Mahesh Sankaran	Direct and indirect effects of atmospheric nutrient deposition on woody vegetation of tropical dry forests	01/07/2011	2017
Shubhadeep Biswas	DNAP	Lokesh Tribedi	Study of multi-electronic systems under heavy ion impact	20/05/2013	2017
Sabareesan A. T.	NCBS	Jayant Udgaonkar	Characterization of the Mechanism of Aggregation by the Prion Protein	02/07/2013	2017
Somya Mani	NCBS	Mukund Thattai	Uncovering the topology of eukaryotic vesicle traffic using Boolean models	28/01/2013	2017
Prabhat Kumar Tiwari	NCBS	VijayRaghavan K.	A study on myotendinous interactions and identification of novel candidates necessary for myotendinous development in Drosophila melanogaster	26/10/2007	2017
Sramana Kundu	DNAP	Krishnakumar E. Vaibhav Prabhudesai	Electron Induced Reactions in Condensed Molecules	30/07/2013	2017
Anindita Sarkar	DCS	Ankona Datta	Design of optical and MRI based probes for Manganese(II)	27/04/2012	2017
Sarat B. Moka	STCS	Sandeep Juneja	Invariant Measures for Queueing and Spatial Markov Processes: Algorithms and Analysis	29/04/2013	2017
Sanat Ghosh	DCS	Sanjay Wategaonkar	Spectroscopic and Ab-initio Studies of C-H...Y(Y+N, O, and S) and O-H...S Hydrogen Bonded Systems	02/04/2013	2017
Anupama H. L.	NCBS	Satyajit Mayor	Role of the Dynamin-independent CLIC/GEEC pathway in Wingless endocytosis and signalling	07/07/2009	2017
AalapBhalchandra Mogre	NCBS	Aswin Sai Narain Seshasayee	Evolving resistance to an aminoglycoside in E. Coli	02/07/2013	2017

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Arideep Saha	Maths-Mumbai	Indranil Biswas	Moduli space of bundles and connections	10/11/2014	2017
Rohit Kumar Mishra	CAM	Venkateswaran P. Krishnan	Some uniqueness results in tensor tomography	19/08/2014	2017
Chandan Ghosh	DNAP	Vandana Nanal	Hot Giant Dipole Resonance in A ~ 130-150 Nuclei	27/03/2014	2017
Ravichandran S	TCIS	Rama Govindarajan Roddam Narasimha	The Interlay of Buoyancy, Particle Inertia and Phase Change in Vortical Flows-Implications for Cloud-flows	11/03/2016	2017
Madhuresh	CAM	Sreekar Vadalamani Amit Apte	Bayesian Approach to Ill-Posed Inverse Problems	04/02/2014	2017
Sayani Biswas	DNAP	Rudrajyot Palit	Excitation modes in spherical and transitional nuclei in A~130 mass region	10/10/2013	2017
Lovy Singhal	Maths-Mumbai	Anish Ghosh	On distribution of orbits of group actions	13/02/2014	2017
Mahita Jarjapu	NCBS	Sowdhamini R.	Insights into Toll/interleukin -1 receptor (TIR) Domain-Mediated Protein-Protein Interactions Within the Toll-Like Receptor Signalling Pathway Through Computational Approaches	02/07/2013	2017
Rakesh Ratnakar Pawar	Maths-Mumbai	Srinivas V.	Action of Correspondences on Cohomology and 0-cycles	11/11/2014	2017
Ajith Padyana Ravishanka	DCMPMS	Achanta Venugopal	Optical Properties of Quasiperiodic Hole Arrays on Metal and Dielectric Surfaces	17/07/2013	2017
Arijit Ganguly	Maths-Mumbai	Anish Ghosh	Problems in Diophantine approximation and dynamical systems	14/05/2015	2017

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Swagatha Ghosh	NCBS	Satyajit Mayor S. Ramaswamy	A Red Fluorescent (Sander cyanin) from Blue Fish (Sander vitreus)	09/07/2012	2017
Sombuddha Bhattacharya	CAM	Venkateswaran P. Krishnan	Inverse Problems on Riemannian manifolds	19/08/2014	2018
Samsuzzoha Mondal	DCS	Ankona Datta	Design and development of optical probes for imaging signal mediating phospholipids	08/04/2013	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	10/05/2012	2018
Sameer Grover	DCMPMS	Mandar Deshmukh	Optoelectronic properties and photoresponse of graphene	03/07/2013	2018
Baljeet Singh	DCS	Vivek Polshettiwar	Fibrous Nanosilica: Tunable Synthesis, Its Applications and Novel Materials Design	04/09/2014	2018
Aswathy Raveendran	HBCSE	Sugra Chunawala	Conceptualising Critical Science Education using Socioscientific Issues	05/03/2010	2018
Bappaditya Chandra	DCS	Sudipta Maiti P. K. Madhu	Understanding amyloid aggregation in terms of its distal folding contacts	31/07/2013	2018
Vijaya Lakshmi K.	DCS	Jyotishman Dasgupta	Regulation of all-trans-lycopene in photosynthetic organisms. Role of light and Redox equivalents	09/05/2012	2018
Palas Roy	DCS	Jyotishman Dasgupta	Probing the Fate of Excitations in Organic Semiconductors	08/04/2013	2018
Sagnik Mukhopadhyay	STCS	Arkadev Chattopadhyay	Communication Complexity Amplification by Function Composition	26/07/2013	2018

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Anveshna Srivastava	HBCSE	Sanjay Chandrasekharan	The Cognitive role of external representations in students' understanding of DNA structure	20/07/2012	2018
Shlesha Rajesh Richhariya	NCBS	Gaiti Hasan	Investigating the role of store-operated calcium entry in neurons: Gene expression and physiological functions	28/01/2013	2018
Prakash Gaikwad	NCRA	Tirthankar Roy Choudhury	Efficient hydrodynamical simulations of the intergalactic medium and parameter estimation	28/08/2014	2018
Sharath K Jose	TCIS	Rama Govindarajan	Stratification and rotation effects on plane shear flow stability and transition	26/05/2016	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	07/06/2013	2018
Minal Jaggar	DBS	Vidita Vaidya	Neuronal Pathways mediating vulnerability/resilience in stress and antidepressant action	18/07/2014	2018
Debjyoti Bardhan	DTP	Sreerup Raychaudhuri	Probing New Physics in Weak Decays and Flavour Changing Processes	03/05/2013	2018
Swagata Dey	DBS	Krishanu Ray	Modalities of Kinesin-2 mediated axonal transport in Drosophila melanogaster and their implications	12/05/2010	2018
Bibhuprasad Mahakud	DHEP	Gagan Mohanty	Search for Supersymmetry, Leptoquarks and Study of Advanced Pileup Mitigation Techniques	30/07/2013	2018
Jacky Kumar	DHEP	Manoranjan Guchait	Phenomenology of NMSSM in the light of Higgs Discovery	05/09/2013	2018

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Bipan Kumar Deb	NCBS	Gaiti Hasan	Regulation of store-operated Ca <sup>2+</sup> entry by septins	02/07/2013	2018
Deepesh Kumar Data	STCS	Vinod M. Prabhakaran	Computational Complexity and Characterization Results in Secure Computation	28/01/2014	2018
Khadiza Ali	DCMPMS	Kalobaran Maiti	Role of magnetism and crystal structure in superconductivity	28/02/2013	2018
Farah Haque	NCBS	Sowdhamini R.	Studying primary Inherited Cardiomyopathies at Multiple levels of Organizations	28/01/2013	2018
Shuddhodan Kadattur Va	Maths-Mumbai	Srinivas V.	Self maps of Varieties over finite fields	29/09/2014	2018
Neha Nandwani	NCBS	Jayant Udgaonkar	Rational Design of Domain Swapping in Proteins	04/02/2014	2018
Shreya Ghosh	DBS	Vidita Vaidya	Regulation of Metabolism and Mood by Genetic and Environmental Factors	16/08/2013	2018
Sorokhaibam Nilakash Sir	DTP	Gautam Mandal	Quantum Dynamics, Thermalization and Black Holes	03/05/2013	2018