

Degrees Awarded - 2016-17

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
Saumya Gupta	DBS	Himanshu Sinha	A study to identify Molecular Pathways Defining Genotype to Phenotype Relationships for Causal Variants	23-05-11	2016
Deepnarayan Biswas	DCMPMS	Kalobaran Maiti	Novel electronic structures at the surfaces	01-02-11	2016
Anirban Baral	NCBS	Mathew M. K.	Modulation of endocytic pathways in the Arabidopsis root by salinity stress	07-07-09	2016
Tarjani Agarwal	NCBS	Gaiti Hasan	Identification and characterisation of GPCRs functioning through intracellular calcium signalling in context of flight	01-07-11	2016
Arvind Maurya	DCMPMS	Dhar S. K. A. Thamizhavel	Single crystal growth and magnetic properties of some ternary and quaternary rare earth intermetallic compounds	23-05-12	2016
Gugan Thoppe	STCS	Borkar V. S. Vinod Prabhakaran	On Stochastic Approximation, Stochastic Algebraic Topology and Optimization in High Dimensions	17-09-12	2016
Mamta Raju Jotkar	TCIS	Rama Govindarajan	Effects of wall-geometry on the stability of channel flow, and of variable properties on film flow	04-03-15	2016
Ashim Rai	DBS	Roop Mallik	Mechanism of the switch from bidirectional to retrograde transport of phagosomes during phagosome maturation	27-05-11	2016
Gouranga Kole	DHEP	Gagan Mohanty	Search for a Light Charged Higgs Boson in the $H \rightarrow (\text{Arrow Symbol}) \text{CS}$ Decay with the CMS Detector	30-03-12	2016

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Himanshu Singh	DCS	Chary K.V. R.	Probing Plant Metabolism and Bio-molecular Interaction: Studies by NMR	08-02-12	2016
Rahul Gera	DCS	Jyotishman Dasgupta	Probing Excited State Redox Reactions Inside Molecular Containers	30-04-12	2016
Anupama Yadav	DBS	Himanshu Sinha	The Genetic basis of Regulation of Phenotypic Variability	12-08-13	2016
Suvrajit Saha	NCBS	Satyajit Mayor	Active Composite Cell Membrane: Scale-dependent patterning and dynamics of cell surface molecules	22-07-09	2016
Divyum Sharma	Maths-Mumbai	Saradha N.	Problems in Thue equations and Diophantine approximation	12-09-13	2016
Mohammed Mostafizur Rahman	NCBS	Sumantra Chattarji	Characterization of the effects of stress across brain regions and over time: Structure, function and behaviour	31-01-12	2016
Debabrata Sinha	TCIS	Surajit Sengupta	Effect of Topological Defects in Quantum Mesoscopic Systems and in Quantum Solids	08-12-14	2016
Arnab Khan	DNAP	Deepankar Misra	Decay Dynamics of molecular ions studied by coincident momentum imaging	25-04-12	2016
Debabrata Karmakar	CAM	Sandeep K.	Trudinger-Moser and Adams' inequalities on the hyperbolic space	08-11-13	2016
Avantika Lal	NCBS	Aswin Sai Narain Seshasayee	Gene Regulation in the stationary phase of Escherichia coli	09-07-12	2016
Ramya Purkanti	NCBS	Mukund Thattai	Role of gene duplication in evolution of eukaryotic organelles	31-01-12	2016
Parul Chachra	DBS	Vidita Vaidya	Behavioural and Molecular Effects of Early-life Fluoxetine Exposure	10-09-12	2016

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Charanya Ravi	Maths-Mumbai	Amalendu Krishna	Equivariant Vector Bundles and Their K-Theory on Schemes with Group Actions	19-08-13	2016
Anand K. Das	DBS	Vidita Vaidya Sudipta Maiti	Understanding the molecular mechanism of toxicity in neurodegenerative disorders	18-10-11	2016
Mohit Garg	STCS	Jaikumar Radhakrishnan	The bit-probe complexity of set membership	08-11-11	2016
Pankaj Kumar Dubey	DBS	Krishanu Ray	Cellular and Molecular analysis of spermatid release in Drosophila	05-05-10	2016
Tuhin Ghosh	CAM	Vanninathan M.	Homogenisation Issues in PDEs arising in applications	05-01-12	2016
Umesh V	DTP	Shiraz Minwalla	Studies in 3d QFT and 5d Gravity	16-11-11	2017
Urvashi Bhattacharyya	NCBS	Upinder Bhalla	Behavioral and physiological correlates of odor guided navigation in rats	15-02-08	2017
Anup Parchure	NCBS	Satyajit Mayor	Molecular Mechanisms underlying exovesicular release of Hedgehog	08-07-10	2017
Kuldeep Verma	DAA	Antia H. M.	Asteroseismology of sun-like main-sequence stars	20-03-13	2017
Priyanka Gupta	NCBS	Upinder Bhalla	Summation of odor inputs in the mammalian olfactory bulb	04-02-10	2017
John Philip Mathew	DCMPMS	Mandar Deshmukh	Tailored Tunability of Nanoelectromechanical Systems for Mode Coupling and Thermal Studies	22-04-13	2017
Visweshwar Ram Marthi	NCRA	Jayaram N. Chengalur	Towards detecting Redshifted HI with the Ooty Wide-Field Array	19-05-15	2017
Joe P. Ninan	DAA	Devendra Ojha	Episodic Accretion and Outflows in Young Stellar Objects & Near Infrared Instrumentation	23-08-12	2017

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Raghunath Ghara	NCRA	Tirthankar Roy Choudhury	21-cm signal from the cosmic dawn and epoch of reionization	27-11-12	2017
Pooja Malhotra	NCBS	Jayant Udgaonkar	Characterization and Modulation of Cooperativity in Protein Folding and Unfolding Transitions	01-07-11	2017
Amruta Hanmant Varudkar	NCBS	Uma Ramakrishnan	Evolutionary Consequences of Habitat Association: A comparative study in commensal and Non-commensal Rats	31-01-12	2017
Om Prakash	DCMPMS	Ramakrishnan S.	Superconductivity in Bismuth and ground state properties of quasi-skutterudites R ₃ T ₄ X ₁₃ (R=Y,Ce and Lu, T=Ru and Os, X=Ge)	25-05-12	2017
Aswathy A . K.	NCBS	Sudhir Krishna	Heterogeneous cellular subsets collectively mediate tumour progression in human cervical cancer	01-07-11	2017
Mugdha Kulashreshtha	DBS	Rao B. J.	Involvement of DNA double strand break repair machinery and nuclear myosin in chromosome territory dynamics	19-04-12	2017
Atreyee Sinha	DHEP	Varsha R. Chitnis	A Multiwavelength study of TeV blazars	26-02-13	2017
Somesh Chandra Ganguli	DCMPMS	Pratap Raychaudhuri	Real Space Investigation of order-disorder transition of vortex lattice in Co-intercalated 2H-NbSe ₂	21-01-13	2017
Mohini Sengupta	NCBS	Vatsala Tirumalai	Purkinje neurons in action: From single cells to ensembles	04-02-14	2017

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Ram Krishna Dewanjee	DHEP	Sudeshna Banerjee	Search for Neutral MSSM Higgs bosons and other exotic resonances in their decays involving 2 hadronically decaying τ leptons at CMS	13-07-12	2017
Durafshan Sakeena Syed	NCBS	VijayRaghavan K.	Mechanisms underlying the development of myotopic map for locomotion in <i>Drosophila melanogaster</i>	02-02-11	2017
Swagato Sanyal	STCS	Prahladh Harsha	Complexity Measures of Boolean Functions: Fourier Sparsity, Fourier Dimension and Query Complexity	02-01-13	2017
Indranil Chowdhury	CAM	Imran Habib Biswas	Studies of non-linear PDE's involving non-local operators.	08-11-13	2017
Nihit Saigal	DCMPMS	Sandip Ghosh	Aspects of electronic Structure of bulk and monolayer MoS ₂ studies using optical spectroscopy	30-04-12	2017
Mayuresh Surnis	NCRA	Bhal Chandra Joshi	Radio Pulsar Search and Timing	26-09-12	2017
Taruni Roy Khurana	NCBS	Sanjay Sane	Cross-Modal Speedometry in Flying Honeybees	08-07-10	2017
Pritha Ghosh	NCBS	Sowdhamini R.	Sequence and structural studies of RNA-binding proteins	04-02-14	2017
Renuka Raman	DBS	Mahendra Sonawane	Uncovering functions of cell polarity genes in the developing zebrafish epidermis	24-10-11	2017
Thangaselvam Muthusamy	NCBS	Panicker M. M.	Lipid droplet associated retinoids as a marker for primed pluripotent stem cells and the role of retinol in HPSC metabolism	09-07-12	2017
Shweta	NCBS	Raghu Padinjat	Understanding the role of RDGB in <i>Drosophila</i> phototransduction	28-01-13	2017

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Rakesh Venkat	STCS	Prahladh Harsha	On sparest cut and parallel repetition	18-03-11	2017
Venkata Jayasurya Yallapragada	DCMPMS	Achanta Venugopal	Optical phenomena at patterned metal-dielectric interfaces	25-03-13	2017