

### Degrees Awarded - 2018-19

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
Kamalesh Kumari	DBS	Shobona Sharma Raghu Padinjat (Co-Guide)	Regulation of endocytic transport by phosphatidylinositol 5 phosphate 40kinase (PIP4K) in Drosophila	17/05/2010	2018
Pranjal Nayak	DTP	Gautam Mandal	Aspects of Quantum Gravity and strongly coupled field theories	15/06/2015	2018
Mandira Mondal	Maths-Mumbai	Vijaylaxmi Trivedi	Hilbert Kunz density function and Asymptotic Hilbert-Kunz Multiplicity	24/07/2014	2018
Chaitali Khan	DBS	Rao B. J.	DNA damage response and Tissue homeostasis in Drosophila wing imaginal disc: a mechanistic study	04/09/2013	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	15/10/2013	2018
Rini Ganguly	DCMPMS	Pratap Raychaudhuri	Experimental investigations on disordered and low dimensional Superconductors	04/07/2014	2018
Kabir Bazmi Husain	NCBS	Satyajit Mayor	The mechanics of cell surface clusters and their role in signalling	07/07/2014	2018
Rama Reddy Goluguri	NCBS	Jayant Udgaonkar	Role of Sub-millisecond dynamics in protein folding and misfolding	02/07/2013	2018
Subhrangsu Sarkar	DCMPMS	Pushan Ayyub	Finite size effect in metal nanoparticles: complex interplay of quantum size, surface and lattice deformation effects	08/08/2012	2018
Randhir Kumar	DNAP	Sushil Majumdar	Localization and Amplification of Light in Low-dimensional Disordered Systems	10/09/2013	2018

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Kritika Sadh	DBS	Roop Mallik	Metabolic control of association of raftophilic and motor proteins with lipid droplets in liver.	15/05/2012	2018
Anshul Deep Singh Parmar	TCIS	Smarajit Karmakar Srikanth Sastry	Fragility and heterogeneity in glass forming liquid and characterization of yield transition under oscillatory shear	05/07/2016	2018
Vinutha H.A.	TCIS	Smarajit Karmakar	Shear Induced geometry and jamming in sphere packings	27/01/2016	2018
Prajakt P. Pande	HBCSE	Sanjay Chandrasekharan	Rethinking Representational Competence: Cognitive mechanisms, empirical studies and the design of a new media intervention	25/02/2013	2018
Ruchi S. Kumar	HBCSE	Subramaniam K.	Supporting in-service professional development of mathematics teachers: The role of beliefs and knowledge	06/04/2009	2018
Samir Gupta	DBS	Krishanu Ray	Molecular characterization of somatic control of germline proliferation in adult Drosophila testis	12/08/2013	2018
Lena Mareike Josefine Rode	NCBS	Vatsala Thirumalai	Characterization and perturbation of Darpp-32 in zebrafish	07/07/2014	2018
Nitesh Saxena	NCBS	Sanjay Sane	Role of Multiple sensory cues in odor localization by fruit flies	04/02/2010	2018
Mangesh M. Mandlik	DTP	Shiraz Minwalla	Scattering in Chern-Simons Theories and Black Holes in Large D	03/06/2013	2018
Rickmoy Samanta	DTP	Sandip Trivedi	Anisotropic Black Branes, Shear Viscosity and possible experimental implications	24/07/2013	2018

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Abhishek Johri	NCRA	Manoharan P. K.	Acceleration and Evolution of Solar Energetic Particle Events in the Sun-Earth Distance	23/11/2012	2018
Arka Mallick	CAM	Sandeep K.	Inequalities with singular weights in the Euclidean space and the Heisenberg group	14/09/2015	2018
Arnab Roy	CAM	Mythily Ramaswamy	Existence, Controlability and stabilization of fluid models	08/09/2015	2018
Manmohan Vashisth	CAM	Venkateswaran P. Krishnan	Some Inverse problems in hyperbolic Partial differential equations	11/08/2015	2018
Arjun Paul	Maths-Mumbai	Indranil Biswas	On equivalent bundles, logarithmic connections and moduli of principal bundles	19/08/2015	2018
Mugdha Sathe	NCBS	Satyajit Mayor Mukund Thattai	Understanding events leading up to CLIC/GEEC endocytic vehicle formation using BAR domains and actin machinery	31/01/2012	2018
Ankit Sood	DBS	Vidita Vaidya	Sexually Dimorphic effects of acute stress on neural activation patterns and neuroimmune signalling	03/08/2012	2018
Shitapranjya Pati	DBS	Vidita Vaidya	Effects of Gq-driven signaling on the regulation of mood related behaviour	28/08/2013	2018
Aliasgar Bohra	NCBS	Vijayaraghavan K.	Organizational and developmental Analysis of Gustatory motor neurons birth order, lineage and targeting.	18/07/2013	2018
Rahul Gupta	Maths-Mumbai	Amalendu Krishna	K-Theory and O-cycles on schemes	26/08/2015	2018
Ronak M. Soni	DTP	Sandip Trivedi	Entanglement in Gauge Theories	24/07/2015	2019
Archak Purkayastha	ICTS	Abhishek Dhar	Transport in open quantum systems	27/03/2015	2019

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Jishnu Bhattacharya	DAA	Shravan Hanasoge	Consistent Seismic Imaging of Flows in the sun	01/05/2015	2019
Tanay Roy	DCMPMS	Vijayaraghavan R.	Multimode superconducting circuits as building blocks for a programmable quantum processor	01/10/2013	2019
Anju Yadav	DCS	Koti A. S. R.	Mechanistic insights into the protein-metal and protein-protein interactions of B(Beta) rich globular proteins	04/04/2014	2019
Moniruzzaman Shaikh	DNAP	Ravindrakumar G.	Dynamics of intense, ultrashort, relativistic electron pulses in a solid	15/01/2015	2019
Amit R. Dhakulkar	HBCSE	Nagarjuna G.	Graphicacy issues in school textbooks and designing learning contexts to address them	05/05/2009	2019
Rohit Sharma	NCRA	Divya Oberoi	Study of weak solar emission features at low radio frequencies	03/02/2015	2019
Vishvesh Tadsare	DNAP	Krishnakumar E. Vaibhav Prabhudesai	Dissociative Electron attachment to organic molecules	22/11/2012	2019
Rohit Chandrakant Surate	NCBS	Sandeep Krishna	Understanding structure and dynamics of the Drosophila PI(4,5)P2 cycle using mathematical models	07/07/2014	2019
Ashish Shukla	DTP	Sandip Trivedi	Symmetry constraints in single field models of inflation	26/08/2014	2019
Snehal Dilip Karpe	NCBS	Sowdhamini R.	Deciphering of or affinities of olfactory receptors through genome-wide survey, molecular modeling and docking studies	04/02/2014	2019
Ritam Sinha	DTP	Gautam Mandal	Thermalization in pure states and black holes	30/04/2014	2019

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Prashantkumar Navalbha	NCBS	Jayant Udgaonkar	Modulation of Protein Stability and Folding Cooperativity by Cosolvents	07/07/2014	2019
Giselle Maria Fernandes	NCBS	Sumantra Chattarji	Synaptic defects and their reversal in the amygdala: implications for stress and autism spectrum disorders	09/07/2012	2019
Nikhil S. Mande	STCS	Arkadev Chattopadhyay	Communication Complexity of Xor Functions	27/03/2015	2019
Sarath Sankar	DTP	Vikram Tripathi	Studies of number-phase fluctuations effects in strongly correlated inhomogenous conductors	31/07/2015	2019
Rustam Singh	DCS	Vivek Polshettiwar	Dendritic Fibrous Nono-Silica coated Titanium Dioxide for Morphology controlled photocatalysis	08/05/2014	2019
Amit K. Singh	NCBS	Madan Rao	Fluctuation, Confinement and Hydrodynamic Interactions: Stochastic Dynamics of Inclusions in Cells and tissues	07/07/2014	2019
Shreya Banerjee	DAA	Singh T. P.	Cosmic Acceleration : Problems and possible solutions	01/05/2015	2019
Shamik Bhattacharjee	DNAP	Lokesh Tribedi	Ionization in HCl collisions with molecules of biological relevance including water and adenine	27/01/2015	2019
Abhirup Ghosh	ICTS	Ajith Parameswaran	Testing general relativity using observations of gravitational waves from the inspiral, merger and ringdown of binary black holes	21/07/2015	2019

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Manibrata Sen	DTP	Amol Dighe Basudeb Dasgupta	New Aspects of Supernova Neutrino Flavor Conversions: In the standard Model and Beyond	15/04/2015	2019
Meenakshi Shankar Iyer	NCBS	Sowdhamini R.	Systematic accumulation of homologues of protein structural domains and analysis of protein domain architecture and taxonomic distribution	10/02/2016	2019
Shaunak Deota	DBS	Ullas Kolthur	Role of NAD <sup>+</sup> dependent deacetylase SIRT1 in regulating physiology and cell cycle progression	27/08/2015	2019
Ananya Rakshit	DCS	Ankona Datta	Development of Mixed N, O Donor Ligands for In Vivo Metal Ion Chelation and Sensing	08/05/2014	2019