

**S. N BOSE NATIONAL CENTRE FOR BASIC SCIENCES**  
**PROFILE ON Ph.D SUBMISSION & AWARD – FROM INCEPTION AS ON 22.04.2010**

<b>Srl.</b>	<b>Title</b>	<b>Author</b>	<b>Batch</b>	<b>Guide</b>	<b>Affiliated University</b>	<b>Submitted on</b>	<b>Ph.D Award</b>
1		Chaitali Basu	PMSC-1990	Abhijit Mookerjee	J.U.	1994	
2		Indra Dasgupta		Abhijit Mookerjee	C.U.	1995	
3	Transport, phase formation and statistical physics in disordered systems	Tanusri Saha	PMSC-1991	Abhijit Mookerjee	C.U.	1994	
4		Subhradip Ghosh	PMSC-1996	Abhijit Mookerjee	J.U.	2000	
5		Partha Pratim Biswas	PMSC-1996	Abhijit Mookerjee	J.U.	1999	
6	Multicomponent Random Alloys - A Theoretical Study	Biplab Sanyal	PMSC-1997	Abhijit Mookerjee	J.U.	1999	
7	Exact vibration control and boundary stabilization of a hybrid internally damped elastic structure	Ganesh Chandra Gorain		Sujit K. Bose	J.U.	1999	
8	Investigations in three dimensional field theories	Pradip Mukherjee		Rabin Banerjee	J.U.	1999	
9	Interaction of charged fluid with the astrophysical black holes	Banibrata Mukhopadhyay		Sandip K. Chakrabarti	J.U.	2000	
10	Modelling the origin of astrophysical outflows from galactic and extra-galactic sources powered by accreting compact objects	Tapas Kumar Das		Sandip K. Chakrabarti	J.U.	2000	

11		Indranil Chattapadhyay	PMSC-1997	Sandip Chakrabarti	J.U.	2003	
12		S. G Manickam	PMSC-1998	Sandip Chakrabarti	J.U.	2004	
13		Nityananda Das			J.U.	2001	
14	Collective Effects of Particle	Abhijit Bhattacharya		Sandip K. Chakrabarti & A. M. Basu	J.U.	2001	
15	Quantum Transmittance	Tapas Mitra		Abhijit Mookherjee	J.U.	2002	
16	Structural and Electronic Properties of bulk materials and transition metal alloys	Chhanda Basu Chaudhury		Abhijit Mookherjee	J.U.	2003	
17	Studies in Certain Planar	Tomy Scaria	PMSC-1997	Rabin Banerjee and Biswajit Chakraborty	J.U.	2003	
18		Abhijit Datta		Abhijit Mookherjee	J.U.	1996	
19	Formation, Electronic and Magnetic Properties of Rough Overlayers	Ain-Ul Huda	PMSC-2000	Abhijit Mookherjee	J.U.	2004	
20		Rajsekhar Bhattacharya			J.U.		
21	Electronic, magnetic structure and phase stability in substitutional binary alloys : a theoretical study	Durga Paudyal	PMSC-1999	Abhijit Mookherjee & Tanusri Saha Dasgupta	J.U.	2004	
22	Optical Properties of compounds and disordered alloys	Kamal Krishna Saha	PMSC-1999	Abhijit Mookherjee	J.U.	2004	

23	Spectral and timing properties of accretion flows around black holes from observational data	Anuj Nandi	PMSC-1999	Sandip K. Chakrabarti	J.U.	2005	
24	Study of Scale-free correlated clusters in the non-equilibrium and equilibrium critical phenomena	Rumani Karmakar	PMSC-1999	Subhragshu Sekhar Manna	J.U.	2005	
25	Analytical Studies of standing shocks in accretion flows around compact objects	Santabrata Das	PMSC-1999	Sandip K. Chakrabarti	J.U.	2005	
26	Quantum transport in Mesoscopic system	Swarnali Bandopadhyay	PMSC-1999	Prosenjit Singha Deo	J.U.	2005	
27	Statics and Dynamics of Fluctuations in Interfaces Driven by Non-uniform Fields	Abhishek Chaudhuri	PMSC-2000	Surajit Sengupta	J.U.	2006	
28	Vibrational Properties of Disordered systems	Aftab Alam	PMSC-2001	Abhijit Mookerjee	J.U.	2006	
29	Theoretical study of disordered alloys	Atish Dipankar Chakraborty		Abhijit Mookerjee	C.U.	2006	
30	Equilibrium and transport properties of constrained systems	Debasish Chaudhuri	PMSC-2001	Surajit Sengupta	J.U.	2006	
31	Arrival times of Quantum Wave Packets	Md. Manirul Ali	PMSC-2000	Archan S. Majumdar	J.U.	2006	
32	Electronic and Magnetic properties of metallic and alloy surfaces	Monodeep Chakraborty	PMSC-2001	Abhijit Mookerjee	WBUT	2006	
33	Theoretical Spectroscopic studies on model molecular systems	Sumana Banerjee	PMSC-1999	Gautam Gangopadhyay	J.U.	2005	
34	Time-dependent effects magnetic nano particles	Suvankar Chakraverty	PMSC-2000	Sushanta Dattagupta	J.U.	2006	

35	Structure and relaxation of disordered systems	Ankush Sengupta	PMSC-2001	Surajit Sengupta	J.U.	2007	
36	On the Brownian motion: from classical to quantal	Malay Bandyopadhyay	PMSC-2002	Sushanta Dattagupta	J.U.	2007	
37	Electronic and Magnetic Properties of Quantum Spin Systems	Badiur Rahaman	PMSC-2003	Tanusri Saha Dasgupta	J.U.	2008	2009
38	Electronic and Magnetic Properties of Metal Clusters	Mukul Kabir	PMSC-2001	Abhijit Mookerjee	J.U.	2006	2008
39	Aspects of Noncummunitivity in Field theory, strings and membranes	Kuldeep Kumar	PMSC-2001	Rabin Banerjee	J.U.	2007	2008
40	Accretion processes around kerr black holes	Soumen Mandal	PMSC-2001	Sandip K. Chakrabarti	J.U.	2007	2008
41	Study of Magnetic Nanomaterials	Subarna Mitra	PMSC-2002	Kalyan Mandal	J.U.	2007	2008
42	Studies of Ultrafast dynamics in biologically important environments	Rupa Sarkar	PMSC-2004	Samir Kumar Pal	JU	2007	2008
43	Study of quantum entanglement in atom –photon interactions	Biplab Ghosh	PMSC-2002	Archan S. Majumdar	J.U.	2007	2008
44	The role of environmental dynamics and biomolecular structure in the process of molecular recognition	Ajay Kumar Shaw	PMSC-2005	Samir Kumar Pal	J.U.	2007	2008
45	Some studies in Noncommutative quantum field theories	Sunandan Gangopadhyay	PBIR-2001	Biswajit Chakraborty	W.B.U.T.	2008	2008
46	Studies of boundary conditions and noncommutativity in string theory	Arindam Ghosh Hazra	PMSC-2003	Biswajit Chakraborty	JU	2008	2009
47	Theories on Noncommutative spaces and deformed symmetries	Saurav Samanta	PMSC-2003	Rabin Banerjee	JU	2008	2009
48	Aspects of Squeezing in Atomic States	Ram Narayan Deb	PMSC-2000	Nilkantha Nayak	JU	2008	2008

49	Ultrafast Spectroscopy and biocompatibility of Nano-Crystals	S Shankara Narayanan	PMSC-2005	Samir K Pal	JU	2008	2009
50	Bifurcations in Maps with memory and predator prey models	Debabrata Dutta	PBIR-2001	Jayanta K Bhattacharjee	WBUT	2008	
51	Electronic Structure and Optical response in disordered alloys	Kartick Tarafdar	PMSC-2003	Abhijit Mookerjee	JU	2008	2009
52	Turbulence in Rotating Fluids	Sagar Chakraborty	PBIR-2003	Jayanta K Bhattacharjee & Partha Guha	WBUT	2008	2009
53	Photophysical Studies of Small lizards and their interactions with Biological Macromolecules	Debapriya Banerjee	PMSC-2005	Samir K Pal	JU	2008	2009
54	Optical Properties of ZnO based Nanostructures	Manoranjan Ghosh	PMSC-2003	Arup K Raychaudhuri	JU	2008	
55	Electronic Structure and Transport Properties of Nano-Materials	Soumendu Dutta	PMSC-2004	Abhijit Mookerjee & Tanusri Saha Dasgupta	JU	2008	
56	Theoretical Studies of Structures and Energetics of DNA under different conditions	Sudipta Samanta	PMSC-2003	Jaydeb Chakraborty & Dhananjay Bhattacharya	WBUT	2008	
57	Studying Statistical Physics of some Complex Systems	Kunal Bhattacharya	PMSC-2003	S. S. Manna	JU	2009	
58	Medium effects on chemical reactions in electrolyte solutions, binary mixtures and confined environments : a spectroscopic study	Tuhin Pradhan	PMSC-2004	Jaydeb Chakrabarti & Ranjit Biswas	JU	2009	2009

59	Structural, Electronic and Magnetic Properties of Doped Wide Band Gap Semiconductors	Manoj Kumar Yadav	PMSC-2003	Abhijit Mookerjee	JU	2009	
60	Synthesis, characterization and investigation of electrical transport in metal nanowires and nanotubes	M Venkata Kamalakar	PBIR-2001	Arup Kumar Raychaudhuri	JU	2009	
61	Understanding the cantilever dynamics of Atomic Force Microscope and its application to nanomanipulation	Soma Das	PBIR-2002	Arup Kumar Raychaudhuri	JU	2009	
62	Tuning of ground state and phase transition in complex oxide nanomaterials	Tapati Sarkar	PBIR-2002	Arup Kumar Raychaudhuri	JU	2009	
63	Growth, Structure and Properties of Ultra-Thin	Mrinal Kanti Bera	PBIR-2001	M K Sanyal (SINP) & S Dattagupta (IISERK)	WBUT	2009	
64	Study of low frequency conduction fluctuations in Perovskite Manganites	Sudeshna Samanta	PMSC-2002	Arup Kumar Raychaudhuri	JU	2009	
65	Structural and Electronic properties of Semi-conductors: Bulk and Nanoscale	Roby Cherian	PMSC-2005	Priya Mahadevan	JU	2009	
66	Magnetic, transport and electronic properties of inter-metallic perovskite compounds	Abhishek Pandey	PBIR-2001	R Ranganathan (SINP) & S Dattagupta (IISER)	WBUT	2009	
67	Field theory aspects of cosmology and black holes	Shailesh Kulkarni	PMSC-2004	Rabin Banerjee	JU	2009	
68	Complex Networks embedded in Euclidean Space	Anjan Kr. Nandi	PMSC-2003	S. S. Manna	JU	2009	

69	Theoretical and Computer simulation studies of Chemical events in solutions	Hemant Kumar Kashyap	PMSC-2004	Ranjit Biswas		2009	
70	Equilibrium and Dynamics of Structural Transitions	Jayee Bhattacharya	PMSC-2002	Surajit Sengupta	JU	2009	
71	Some aspects of magnetic properties of amorphous magnetic materials	Suman Sinha	PMSC-2002	Kalyan Mandal	JU	2010	
72	Energy and electron transfer in complex molecular systems	Dipankar Rana	PMSC-1999	Gautam Gangopadhyay	JU	2009	