

S. N. Bose National Centre for Basic Sciences

Externally Funded Projects as on 25 April 2012

Project Title	PI / Co – PI	Funding Agency	Total Sanctioned
" Understanding Physics and Chemistry of novel material using NMTO Wannier Functions "	Dr. T. Saha Dasgupta	Indo-German FP/2004(40)	56,60,000/-
"Advanced Materials Research Unit" (AMRU)	Dr. T. Saha Dasgupta	DST IR/S2/PU-09/2006	2,18,63,000/-
"J.C. Bose Fellowship"	Prof. A.K. Raychaudhuri	DST SR/S2/JCB-17/2006	40,00,000/- 68,00,000/- in 2nd phase
" Development of cryostats and electronic measurement units for physical properties measurements using a zero-loss dewar"	Prof. A.K. Raychaudhuri	DST IR/S2/PU-03/2006	1,43,37,000/-
" Utilization of Synchrotron Radiation Sources and Neutron Sources abroad"	Prof A.K. Raychaudhuri	DST SR/S9/Z-18/2007	1,35,00,000/- Additional 9,45,000/- sanctioned. 26,00,000/- requested in 2nd phase
"Study of Biomolecular recognition with Time-resolved Optical Spectroscopy	Dr. Samir Kr. Pal	DST SR/SO/BB-15/2007	26,92,066/-
"Growth, characterization and study of resistive switching in multifunctional perovskite oxide systems"	Dr. Barnali Ghosh Saha	DST (WOS-A) SR/WOS-A/PS- 15/2008	12,48,000/-
"Astrophysical and cosmological implication of noncumulative space time"	Dr. Biswajit Chakraborty	DST (Indo SA Jt. Proj) INT/SAFR/P3(11)/200 9	8,76,000/-
"Quasistatic and Ultrafast Magnetization Dynamics in Nanomagnet Arrays"	Dr. Anjan Barman	DST SR/NM/NS-09/2007	93,00,000/-
"DYNAMAG: Advanced Computational Studies of Dynamic Phenomena in Magnetic Nano-Materials"	Dr. Anjan Barman	DST & European Commission INT/EC/CMS(24/2335 52) /2008(i)	1,69,20,800/-

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"Fundamental Aspects of Quantum Theory and Quantum information: A Multidisciplinary Approach"	Dr. Archan S. Majumdar	DST IR/S2/PU-16/2007	52,24,400/-
"Synthesis of DNA and Micelles Templated Magnetic Nanoparticles and their Necessary Surface Functionalization for Bio – Medical Applications"	Dr. Madhuri Mandal	DST (SERC Fast Track) SR/FT/CS-090/2009	18,20,000/-
"ATHENA – Advanced Theories for Functional Oxides: New Routes to Handle the Devices of the Future" (India European Union Research Project)	Dr. Priya Mahadevan	DST INT/EC/ATHENA (3) / 233553/2008 (i)	1,26,06,560/-
"Study of magneto caloric effect"	Dr. Kalyan Mandal	DRDO ERIPR/ER/0902182/M/ 01/1296	19,83,000/-
"Preparation and study of nanostructured dilute magnetic semiconductors"	Dr. Kalyan Mandal	CSIR 03(1178)/10/EMR-II	12,63,000/-
"Generativity in Cognitive Networks"	Prof. Anita Mehta (From SNBNCBS)	DST SR/CSI/44/2008(11)	25,14,800/-
"Magnonic Crystals: New paradigm towards microwave communications"	Dr. Anjan Barman	DST (DST-JST Prog) INT/JP/JST/P.23/2009	58,83,680/-
"Preparation and study of magnetic nanowires"	Dr. Kalyan Mandal	BRNS (DAE) 2009/37/16/BRNS	29,05,400/-
"MONAMI – Modeling of NANO – Scaled Advanced Materials Intelligently"	Dr. Tanusri Saha Dasgupta	DST (Int Div) INT/EC/MONAMI (25/233513)/2008 (i)	4,23,17,400/-
"Magnetism in organic materials"	Dr. Tanusri Saha Dasgupta	Swedish Research Council (SRC)	Year 2010– 95,000 SEK Year 2011– 1,05,000 SEK Year 2012– 1,05,000 SEK
"Neutron diffraction studies of collapse of charge ordering in narrow band half-doped manganite $Y_{0.5}Ca_{0.5}MnO_3$ nanoparticles "	Prof. A.K. Raychaudhuri	UGC DAE CSR CSR/AO/MUM/CRS- M-154	35,000/- (Fund for 2012)
EICOON – Euro Indo forum for nano materials research coordination & cooperation of researchers in sustainable energy technologies	Prof. A.K. Raychaudhuri Dr. Sugata Mukherjee	University of Twente	8,36,139/-

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"Unit on Nanoscience at SNBNCBS, Kolkata (UNANST – II)	Prof. A.K. Raychaudhuri	DST SR/NM/NS-53/2010	4,61,02,340/-
"Electronic and structural properties of semiconductors at the nanoscale"	Dr. Priya Mahadevan	DST (Nano Mission) SR/NM/NS-91/2010(G)	43,62,000/-
"The study of photo-desorption and photo-ionization of Complex Molecules in Star Forming Regions"	Dr. Kinsuk Acharyya	DST (SERC Fast Track) SR/FTP/PS-075/2010(G)	18,80,000/-
"Advanced Computational Study of Magnonic crystals"	Dr. Saswati Barman	DST (Women Scientist Scheme – A) SR/WOS-A/PS-27/2010(G)	16,92,000/-
"Development of GHz Frequency Filters and Attenuators using Nanoscale Magnonic Crystals"	Dr. Anjan Barman	DIT 1(7)/2010/M&C	1,06,30,000/-
"Investigation of strain-dependent magnetization dynamics and electronic transport in magnetic oxides for spintronics and signal processing applications"	Prof. A.K. Raychaudhuri	DST-DAAD (Indo-German) INT/FRG/DAAD/P-210/2011 dated 9-7-2011	3,93,750/-
"Electroresistance in single crystals and thin films of mixed valence manganites"	Prof. A.K. Raychaudhuri	DST (DST-RFBR) INT/RFBR/P-110	16,35,500/-
"Goelectrical Methods: Theory and Application"	Prof. Bimalendu B. Bhattacharya	DST (SERB) HR/UR/09/2011 dated 13-2-2012	9,66,000/-
"Thematic Unit for Excellence on Nanodevice Technology"	Prof. A.K. Raychaudhuri / Dr. Anjan Barman (Coordinator)	DST SR/NM/NS-09/2011	8,34,53,388/-
"Nano Breath App"	Prof. A.K. Raychaudhuri	UKIERI IND/CONT/E/11-12/086	8,21,000/- (1st Installment) 3,28,440/- (Next installment)