

## SUMMARY OF BEAM TIME/PROJECTS SANCTIONED DURING ACCELERATOR USERS COMMITTEE (AUC-67<sup>th</sup>) MEETING

### BTR-1: Fresh proposals

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
1.	<p>Dr. Pratima M. Kessarkar Senior Scientist, CSIR-National Institute of Oceanography, Dona Paula Goa-403004</p> <p>Contact Details: 9922854476(Mobile), pratimak@nio.org</p>	Changes in intensity of the Arabian Sea Oxygen minimum zone during the late Quaternary.
2.	<p>Mr. Mohd Arif Dar Research Scholar, Department of Physics Annamalai University, Annamalai Nagar, Tamil Nadu-608002</p> <p>Contact Details: 7006342131(Mobile), 7006342131(Office), 7006342131(Home), dararifphy@gmail.com</p>	Synthesis of tin sulphide nanomaterials as photocatalytic and energy storage devices.
3.	<p>Dr. Sanjay Kumar Chamoli Assistant Professor, Department of Physics &amp; Astrophysics, University of Delhi, Delhi 110007</p> <p>Contact Details: 9999062324(Mobile), 1127667155(Office), 1127662087(Home), SKCHAMOLI@PHYSICS.DU.AC.IN</p>	Exploring 2-octupole phonon collectivity through gamma – ray spectroscopy and lifetime measurements in <sup>146</sup> Gd nucleus.
4.	<p>Prof. Sanjiv Puri Department of Basic and Applied Sciences, Punjabi University, Patiala- 147002</p> <p>Contact Details: 9815603759(Mobile), sanjivpurichd@yahoo.com</p>	Study of projectile Z and energy dependence of line resolved M XRP cross sections for some heavy elements by high energy He, Li and B ion impact.

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
5.	<p>Dr. Amardeep Bharti Research Associate, Inter-University Accelerator Center, Aruna Asaf Ali Marg, Vasant Kunj, New Delhi-110067</p> <p>Contact Details: 9501900277(Mobile), 9501900277(Office), abharti_phy@yahoo.com</p>	SHI-induced in-situ resistivity and XRD study of perovskite thin-films for solar cell application.
6.	<p>Dr. Sweta Sanguri Research Associate, IUAC, Room Number 225, New Delhi- 110067</p> <p>Contact Details: 9650063388(Mobile), 1124126024(Office), sanguri.shveta@gmail.com</p>	Differential cellular response to carbon beam in normal versus transformed cells with special reference to mitochondria.
7.	<p>Dr. Mitu Lal Research Associate (RA), IUAC, Delhi-110067</p> <p>Contact Details: 9718653438(Mobile), 1124126024(Office), lalmitu@yahoo.in</p>	Role of autophagy in High Linear Energy Transfer (LET) radiation induced cell death in normal vs. transformed cells.
8.	<p>Dr. Jasmeet Kaur DSKPDF, Physics Department, GNDU, Amritsar -143005</p> <p>Contact Details: 7009023310(Mobile), Jasmeet48@gmail.com</p>	Nuclear electromagnetic moment measurements in A ~130 Mass region.
9.	<p>Dr. Karthick Balasubramanian Scientist-D, Agharkar Research Institute, Gopal Ganesh Agarkar Road, Pune – Maharashtra-411004</p> <p>Contact Details: 7744841981(Mobile), 020- 25325053(Office), karthickbala@aripune.org</p>	Deciphering the past environmental conditions of freshwater Myristica swamps of Western Ghats using diatom assemblages.

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
10.	<p>Dr. Charu Lata Dube Assistant Professor, Room No. 6, Faculty Block, Central University of Gujarat, Gandhinagar- 382030</p> <p>Contact Details: 8264269023(Mobile), charulata.dube@cug.ac.in</p>	<p>Radiation damage study in nanocrystalline tungsten based alloy and fiber reinforced tungsten nanocomposites.</p>
11.	<p>Dr. Damodar Gupta Scientist F, Division of CEPIN, INMAS, DRDO Timarpur, Delhi 110054</p> <p>Contact Details: 9811057634(Mobile), 1123905370(Office), damodar.gupta@gmail.com</p>	<p>Studies on TLR agonist (mannan) mediated modification in biological radiation response(s) in vitro after carbon beam exposure.</p>
12.	<p>Dr. Anjum Farooqui Scientist F, Birbal Sahni Institute Of Palaeosciences, Quaternary Lab, BSIP, 53, University Road, Lucknow- 226007</p> <p>Contact Details: 9451914082(Mobile), 5222742942(Office), afarooqui_2001@ymail.com</p>	<p>Measurements of <sup>10</sup>Be Isotope using AMS to date Fluvial and Lithified Sediments deposited during Early Pleistocene in Karewa Formation, Kashmir.</p>
13.	<p>Dr. Arun Aravind Assistant Professor, University Of Kerala, Bishop Moore College, Kallumala P O, Mavelikara, Kerala, 690110</p> <p>Contact Details: 9447946947(Mobile), 4762685761(Office), bmcarrun@gmail.com</p>	<p>Investigations of swift heavy ion irradiation on structural, electrical and optical properties of RF-Magnetron Co-sputtered transition metal oxide thin films.</p>

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
14.	<p>Dr. Bhalamurugan Associate Professor, Physical Research Laboratory (PRL), Ahmedabad, Gujarat, Pin Code: 380009</p> <p>Contact Details: 9638847656(Mobile), 7926314936(Office), Bhala@prl.res.in</p>	Ion irradiation of astrochemical ices.
15.	<p>Dr. Gopal Mukherjee Scientific Officer(F), Variable Energy Cyclotron Centre, 1/AF Bidhan Nagar, Kolkata 700064</p> <p>Contact Details: 9231615164(Mobile), 3323182321(Office), gopal@vecc.gov.in</p>	Search of Wobbling band in $^{185}\text{Au}$ .
16.	<p>Dr. Pawel J Napiorkowski Sr. Scientific &amp; Tech. Specialist and Scientist-F, HIL – Warsaw Address: Ludwika Pasteura 5A, 02- 093 Warszawa, Poland (Co-PI Dr. Rakesh Kumar, IUAC - New Delhi)</p> <p>Contact Details: 9868207046(Mobile), pjn@slcj.uw.edu.pl</p>	Structure of collective states in $^{130}\text{Barium}$ .
17.	<p>Dr. Pankaj Mohanty Lecturer, C1Lab, Department of Physics, University of Johannesburg (APK Campus), 5 Kingsway Ave, Rossmore, Johannesburg, 2092, South Africa,</p> <p>Contact Details: 744633714(Mobile), 844348133(Office), pankaj22.mohanty@gmail.com</p>	SHI induced change in valency state of Cr leading to decomposition of $\text{RCrO}_4$ to $\text{RCrO}_3$ (R = Gd and Dy).

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
18.	<p>Dr. Neelratan Singh Scientist, IUAC New Delhi-110067 Residential Address: 352 E 4 E Munirka Village, Near Pal Dairy, Near JNU Main Gate New Delhi-110067</p> <p>Contact Details: 9650411528(Mobile), 9650411528(Office), neelratan.geol@gmail.com</p>	Chronology of Terraces along Sutlej River Valley (N-W Himalaya).
19.	<p>Dr. Anupam Sharma Scientist F, Birbal Sahni Institute of Palaeosciences, 53 University road, Lucknow -226 007</p> <p>Contact Details: 9451307713(Mobile), 0522- 2742974(Office), anupam110367@gmail.com</p>	Role of vegetation-environment interaction in tracing anthropogenic impact in urbanized sectors of Ganga Plain: a geochemical, Metagenomics and palynological approach.
20.	<p>Dr. Saikat Chakraborty Research Associate, Inter-University Accelerator Centre, New Delhi- 110067</p> <p>Contact Details: 9452800966(Mobile), chakraborty.saikat98@gmail.com</p>	Search for antimagnetic rotation and octupole correlation in $^{125}\text{Xe}$ .
21.	<p>Dr. Meenakshi Research Scholar, Inter-University Accelerator Center, Vasant Kunj, New Delhi-110067</p> <p>Contact Details: 9717966442(Mobile), 9717966442(Office), geology.meenakshi@gmail.com</p>	Palaeoclimatic reconstruction and climatic variability over the latitudinal change and the time lapses in Pleistocene glacial-interglacial episodes in India.

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
22.	<p>Dr. Dhiman Mallick Assistant Professor, Department of Electrical Engineering, IIT Delhi, Hauz Khas, New Delhi-110016</p> <p>Contact Details: 8420517310(Mobile), 911126591102(Office), dhiman.mallick@ee.iitd.ac.in</p>	<p>Deposition and study of ion irradiation on multi-layered FeGaB/Al<sub>2</sub>O<sub>3</sub> magnetostrictive films for applications in magnetoelectric heterostructure based devices.</p>
23.	<p>Dr. (Mrs.) Chandana Rath Associate Professor, Indian Institute of Technology (BHU), School of Materials Science and Technology, Banaras Hindu University, Varanasi-221005</p> <p>Contact Details: 9451058153(Mobile), chandana_rath@yahoo.com</p>	<p>Effect of SHI irradiation on phase and electrochemical performance of MnO<sub>2</sub>.</p>
24.	<p>Dr.(Mrs.) Chandana Rath Associate Professor, Indian School of Materials Science and Technology, Indian Institute of Technology(BHU), Varanasi-221005 (UP)</p> <p>Contact Details: 9451058153(Mobile), chandana_rath@yahoo.com</p>	<p>Thickness dependent phase transformation in pure and Dy doped HfO<sub>2</sub> through SHI irradiation.</p>
25.	<p>Mr. Atul Kumar Singh Scientist-B, IUAC, Aruna Asaf Ali Marg, New Delhi-110067</p> <p>Contact Details: 9415092558(Mobile), aksingh21sep@gmail.com</p>	<p>Late quaternary evolution of fluvial terraces in Darjeeling Sikkim Himalayas: Role of climate and tectonics.</p>

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26.	<p>Dr. (Mrs.) Chandana Rath Associate Professor, School of Materials Science and Technology, Indian Institute of Technology (BHU), Varanasi-221005 (UP)</p> <p>Contact Details: 9451058153(Mobile), chandananarath@yahoo.com</p>	Tuning of optical and photocatalytic properties of glass under Ag ion irradiation.
27.	<p>Mr. Sunil Kumar Research Associates, IUAC, New Delhi, NGH-25, Aruna Asaf Ali marg, Vasant kunj, New Delhi-110067</p> <p>Contact Details: 7487071060(Mobile), 343(Office), 8525(Home), kumar.sunil092@gmail.com</p>	Study of surface plasmon resonance in Gold-MoS2 hybrid structure by swift heavy ion irradiation: Improving biosensing ability of Gold-MoS2 hybrid system.

### BTR-2: Thesis Proposals

<b>S. No.</b>	<b>PRINCIPAL INVESTIGATOR</b>	<b>TITLE OF THE PROJECT</b>
28.	<p>Ms. Sonia Das C/o. Dr. M. B. Rajani School of Humanities, National Institute of Advanced Studies(NIAS), IISC campus,, Bengaluru 560012</p> <p>Contact Details: (Dr. Rajani) 9343835535(Mobile) <a href="mailto:Mbrajani@nias.res.in">Mbrajani@nias.res.in</a></p> <p>Ms. Das: 9916128434, 7903740038 <a href="mailto:sonia.civil@gmail.com">sonia.civil@gmail.com</a></p>	A study of built heritage in unprotected environs of Nalanda.

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
29.	<p>Ms. Arshiya Anjum C/o. Prof. A. P. Gnana Prakash DoS in Physics, University of Mysore, Manasagangotri, Mysore - 570006, Karnataka.</p> <p>Contact Details: (Prof. Prakash) 9590583920(Mobile) 821241960(Office), <a href="mailto:gnanaprakash@physics.uni-mysore.ac.in">gnanaprakash@physics.uni-mysore.ac.in</a></p> <p>Ms. Anjum: 916386741 <a href="mailto:arshphysics@gmail.com">arshphysics@gmail.com</a></p>	Reliability study of N-channel MOSFETs for extreme environment applications.
30.	<p>Ms. Rashmi Kajal JRF, C/o. Prof.Devendra Mohan Department of Applied Physics G. J. U. S.&amp; T Hisar (Haryana), Vill- jurola Gurugram (Haryana)- 125001</p> <p>Contact Details: (Prof. Mohan) 9588172792(Mobile), 9588172792(Office), 9588172792(Home), <a href="mailto:rashmikajal25@gmail.com">rashmikajal25@gmail.com</a></p> <p>Ms. Kajal: 9588172792 <a href="mailto:rashmikajal25@gmail.com">rashmikajal25@gmail.com</a></p>	Study of the optical and electrical transport properties of irradiated composite metal oxides based photoanodes.

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
31.	<p>Mr. Vijayananda Sarangi Senior Research Fellow, C/o. Dr. Prasanta Sanyal Department of Earth Sciences, Research Complex, IISER Kolkata Mohanpur Campus, Nadia-741246, West Bengal</p> <p>Contact Details: Dr. Sanyal: 9051688004(Mobile), 7063402431(Home), <a href="mailto:sarangi99vijay@gmail.com">sarangi99vijay@gmail.com</a></p> <p>Mr. Sarangi: 9051688004, 7063402431 <a href="mailto:sarangi99vijay@gmail.com">sarangi99vijay@gmail.com</a></p>	<p>Effect of monsoonal rainfall variations on vegetation and river during the Quaternary period: A multi-proxy study from western India.</p>
32.	<p>Mr. Anuj Research Scholar, C/o. Dr. Suresh Kumar University of Delhi, Dept. of Physics &amp; Astrophysics, University of Delhi, Delhi-110007,</p> <p>Contact Details: Dr. Suresh Kumar: 9991961666(Mobile), <a href="mailto:anujasih10@gmail.com">anujasih10@gmail.com</a></p> <p>Mr. Anuj: 9991961666 <a href="mailto:anujasih10@gmail.com">anujasih10@gmail.com</a></p>	<p>Nuclear structure studies of transitional nuclei in Mass <math>A \approx 85</math> region.</p>

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
33.	<p>Ms. Swetha Rachamalla  Research Scholar,  C/o. Dr. P. V. Lakshmi Narayana  Andhra University, Nuclear Physics  Department, Andhra University,  Visakhapatnam-530003, Andhra  Pradesh.</p> <p>Contact Details:  Dr. Nayayana:  9291400345  pvl.nuclearphysics@gmail.com  Ms. Rachamalla  8108450840(Mobile),  <a href="mailto:swetha.rachamalla@yahoo.com">swetha.rachamalla@yahoo.com</a></p>	<p>Investigation of radiation damage affects on  Zirconolite glass–ceramic composite material.</p>
34.	<p>Mr. Hemant Jatav  Ph.D Scholar,  C/o. Dr. Debdulal Kabiraj  Dept. Of Material science  IUAC, Aruna Asif Ali Marg, Near  Vasant Kunj, New Delhi- 110067</p> <p>Contact Details  Dr. Kabiraj:  9953533204  d.kabiraj@gmail.com  Mr. Jatav:  7000744113(Mobile),  hemantphy95@gmail.com</p>	<p>Study of ion beam interaction in Nano-materials.</p>

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
35.	<p>Ms. Nisha Kumari Junior Research Fellow, C/o. Dr. Sushant S. Naik Dept. of School of Earth, Ocean and Atmospheric Sciences, Goa University, CSIR- National Institute of Oceanography Dona Paula, Goa- 403 004,</p> <p>Contact Details: Dr. Naik: 9423312269 <a href="mailto:sushant@nio.org">sushant@nio.org</a></p> <p>Ms. Kumari 9326068809(Mobile), <a href="mailto:nisha.121kumari@gmail.com">nisha.121kumari@gmail.com</a></p>	Ventilation of the Northern Indian Ocean during the last glacial-interglacial cycle.
36.	<p>Mr. Ankit Tyagi C/o. Prof. Qasim Murtaza Dept of Mechanical Engineering Delhi Technological University (DTU), Shahbad Daultapur, Main Bawana Road, Delhi-110042</p> <p>Contact Details: (Prof. Murtaza) 8750111166(Mobile), <a href="mailto:qasimmurtaza@dce.ac.in">qasimmurtaza@dce.ac.in</a></p> <p>Mr. Tyagi: 9654370479, 9818224550 <a href="mailto:tyagiankit10506@yahoo.com">tyagiankit10506@yahoo.com</a></p>	Development and Characterization of carbon based composite coating for piston ring application.

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
37.	<p>Ms. Kalpana Gupta C/o. Prof. Qasim Murtaza Dept of Mech Engineering, Delhi Technological University (DTU), Shahbad Daulatpur, Main Bawana Road, Delhi-110042</p> <p>Contact Details: (Prof. Murtaza) 8750111166(Mobile), <a href="mailto:qasimmurtaza@dce.ac.in">qasimmurtaza@dce.ac.in</a></p> <p>Ms. Gupta: 8447893925 <a href="mailto:imsec.kalpana@gmail.com">imsec.kalpana@gmail.com</a>, <a href="mailto:kalpana.gupta26@gmail.com">kalpana.gupta26@gmail.com</a></p>	Synsthesis and characterization of Mo-C based composite coating.
38.	<p>Mr. Arvind Shukla Junior Research Fellow, C/o. Prof. Sunil Kumar Singh Geological Oceanography Division, CSIR-National Institute Of Oceanography (NIO), Dona-Paula, Goa -403004</p> <p>Contact Details: Prof. Singh: 9607017855 <a href="mailto:sunil@nio.org">sunil@nio.org</a></p> <p>Mr. Shukla: 7844968014, 7844968014(Mobile), 8322450371(Office), <a href="mailto:arvindshukla.au@gmail.com">arvindshukla.au@gmail.com</a></p>	Tracing paleo-ocean circulation in Northern and Eastern Indian Ocean.
39.	<p>Ms. Amninderjeet Kaur C/o. Dr. Ashok Kumar Department of Physics, Panjab University, Chandigarh-160014</p> <p>Contact Details: Dr. Kumar: 9041908468(Mobile), <a href="mailto:ashok@pu.ac.in">ashok@pu.ac.in</a></p> <p>Ms. Kaur: 9888285684 <a href="mailto:amninderjeetk@gmail.com">amninderjeetk@gmail.com</a></p>	To investigate the sensitivity of fission cross sections as a probe of fusion dynamics at high angular momentum.

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
40.	<p>Mr. Rakhil Dev Junior Research Fellow, C/o. Prof. Sunil Kumar Singh Geological Oceanography Division CSIR-National Institute Of Oceanography (NIO), Dona-Paula, Goa, India, 403004</p> <p>Contact Details: Prof. Singh: 9607017855 <a href="mailto:sunil@nio.org">sunil@nio.org</a></p> <p>Mr. Dev: 9496980343(Mobile), <a href="mailto:RAKHILDEV2011@GMAIL.COM">RAKHILDEV2011@GMAIL.COM</a></p>	Isotopic and geochemical studies to constrain the input of Himalayan orogeny on cenozoic cooling.
41.	<p>Ms. Beant Kaur C/o. Dr. Sunil Devi Dept. Of School of Physics and Materail Science, Thapar Institute of Engineering and Technology, Patiala- 147004, Punjab</p> <p>Contact Details: Dr. Devi: 7087937045(Mobile), <a href="mailto:Sunil.devi@thapar.edu">Sunil.devi@thapar.edu</a></p> <p>Ms. Kaur 9915509301 <a href="mailto:beantkaurguron@hotmail.com">beantkaurguron@hotmail.com</a></p>	Heavy ion reactions around the coulomb barrier.

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
42.	<p>Ms. Collin B Nettar Ph.D Research Scholar, C/o. Dr. Rabindra Nath Bhowmik, Department of Physics, Pondicherry University, R.V. Nagar, Kalapet, Pondicherry-605014</p> <p>Contact Details: Dr. Bhowmik: 9944064547 <a href="mailto:rnbhowmik.phy@pondiuni.edu.in">rnbhowmik.phy@pondiuni.edu.in</a></p> <p>Ms. Nettar: 8848971893(Mobile), 4132654636(Office), 8848971893(Home), <a href="mailto:collinbnettar@gmail.com">collinbnettar@gmail.com</a></p>	Control of defect induced structure, magnetism, electrical and optical properties in Ga doped Al <sub>2</sub> O <sub>3</sub> Wide Band gap semiconductor by Ion irradiation and Implantation.
43.	<p>Ms. Geerthana M Research Scholar, C/o. Dr. R. Ramesh Department of Physics, Periyar University Periyar Palkalai Nagar, Salem-636011</p> <p>Contact Details: Dr. Ramesh: 8825605822 <a href="mailto:rameshphys@gmail.com">rameshphys@gmail.com</a></p> <p>Ms. Geerthana M 9578427773(Mobile),, <a href="mailto:geerthanaphysics@gmail.com">geerthanaphysics@gmail.com</a></p>	Iron oxide based nanocomposite for photoelectrochemical energy conversion.
44.	<p>Ms. Jisna Rahman Research Scholar, C/o. Dr. N. E.Rajeevan Department of Physics Zamorin's Guruvayurappan College (Affiliated to University of Calicut), Kerala-673014</p> <p>Contact Details: Dr. Rajeevan: 9447415585 <a href="mailto:rajeevneclt@gmail.com">rajeevneclt@gmail.com</a></p> <p>Ms. Rahman 9846503299(Mobile), <a href="mailto:jisnajisna@gmail.com">jisnajisna@gmail.com</a></p>	Swift heavy ion induced enhancement of magnetoelectric coupling in rare earth doped multiferroic films.

### BTR-3: UFR Proposals

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
45.	Dr. Kushal Kalita Associate Professor, Gauhati University, Physics Department, Gauhati University, Guwahati-781014, Contact Details: 8638262040(Mobile), 9859936869(Office), 8638262040(Home), kkalita@gauhati.ac.in	Studies on fusion inhibition by measurements of complete, incomplete and fission fragment cross-sections.
46.	Dr. Shubra Singh Assistant Professor, Crystal Growth Centre, Anna University, Chennai, Tamil Nadu -600025 Contact Details: 9840422496(Mobile), 4422358351(Office), 9600018197(Home), shubra6@gmail.com	Tuning of photoactivity of efficient modified Brownmillerites by swift heavy ion irradiation for energy and environmental applications.
47.	Prof. B. N. Dole Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 431004, drbndole.phy@gmail.com, Contact Details: 8237006572(Mobile), 240240338(Office), (Home), drbndole.phy@gmail.com	Exploring the swift heavy ion Irradiation effect on the properties of GO based Ni doped Cobalt Oxide Nanocomposites for Supercapacitor Applications.
48.	Dr. Rabindra Nath Bhowmik Associate Professor, Department of Physics, Pondicherry University, R.V. Nagar, Kalapet, Pondicherry-605014, Contact Details: 9944064547(Mobile), 4132654636(Office), 9944064547(Home), rnbhowmik.phy@pondiuni.edu.in	Ion irradiation and implantation effects on structure, magnetism and electronic properties in corundum structured oxide thin films.

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
49.	Prof. R. G. Sonkawade Department of Physics, Shivaji University, Kolhapur, Maharashtra-416004 Contact Details: 9763041193(Mobile), Sonkawade@gmail.com	Effect of high energy irradiation on supercapacitive properties of Cu/Polyaniline nanocomposite thin films.
50.	Dr. Buddhadev Mukherjee Assistant Professor III, Physics Department, Visva-Bharati P.O. Santiniketan, District Birbhum West Bengal- 731235, Contact Details: 9735893022(Mobile), buddhadev.mukherjee@visva- bharati.ac.in	Lifetime measurements of excited states in $^{66}\text{Zn}$ and $^{66}\text{Ga}$ .
51.	Prof. Anup K. Ghosh Department of Physics, Banaras Hindu University, Varanasi- 221005, Contact Details: 9935118021(Mobile), akghosh@bhu.ac.in	Effect of swift heavy ions on optical, electrical and electro-luminescent properties of MoS <sub>2</sub> monolayer and multilayer films.
52.	Dr. Rajesha Nairy K Assistant Professor, K.L.E. Society's P.C. Jabin Science College, Vidya nagar, Hubballi – 580031, Karnataka Contact Details: 998654596(Mobile), 9986545906(Office), 998545906(Home), rajesh.nairy@gmail.com	Studies on 2-Deoxy-D-glucose capped Gold-coated magnetic nanoparticles (Au@MFe <sub>2</sub> O <sub>4</sub> ) for transonic and cancer therapy application.
53.	Dr. K. Sethuraman Assistant Professor, School of Physics, Kamaraj University, Palkalai Nagar, Madurai - 625 021 Tamilnadu Contact Details: 9445252309(Mobile), sethuraman_33@yahoo.com	Effect of swift heavy ion irradiation on chalcopyrite absorber and kesterite counter electrode for efficient solar cell applications.

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
54.	Prof. Atul Khanna Department of Physics, Guru Nanak Dev University Amritsar, Punjab-143005 Contact Details: 7973668032(Mobile), 2258802(Office), 7973668032(Home), atul.phy@gndu.ac.in	Synthesis and characterization of hydrophobic functional coatings with ion beams.
55.	Dr. Akash Katoch UGC-Assistant Professor, Centre for Nanoscience & Nanotechnology, Panjab University, Sector 14, Chandigarh-160014 Contact Details: 9459631073(Mobile), katochakash16@gmail.com	Effect of ion implantation on gas sensing capabilities metal oxide nanostructures.
56.	Dr. Shidaling Matteppanavar Assistant Professor, Department of Physics, KLE's, B. K. Degree College Chikodi-591201 Karnataka Contact Details: 9480406917(Mobile), Siddutifr@gmail.com	Ion beam induced off-centred ferroelectricity in RMn <sub>2</sub> O <sub>5</sub> thin film and bulk.
57.	Dr. Udai Bhan Singh Assistant Professor, Department of Physics, DDU Gorakhpur University, Civil Lines, Gorakhpur 273009 Contact Details: 8586867589(Mobile), udaibhansingh123@gmail.com	Synthesis of Ag plasmonics and study of electronic sputtering by ion irradiation on thin films.

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
58.	<p>Dr. Anant Pandey  Assistant Professor of Physics,  Department of Physics,  Sri Venkateswara College,  University of Delhi,  Benito Juarez Road, Dhaula Kuan,  New Delhi-110021  Contact Details:  9811720585(Mobile),  24112196(Office),  22773398(Home),  apandey@svc.ac.in</p>	<p>Synthesis of nanophosphor dosimeters for ion beams.</p>
59.	<p>Dr. Nikhil Kumar  Assistant Professor,  Department Of Physics,  DDU Gorakhpur University,  Civil Lines, Gorakhpur,  Uttar Pradesh-273009  Contact Details:  8369608918(Mobile),  8369608918(Office),  nik.jnu@gmail.com</p>	<p>Effect of ion beam on the properties of high Tc superconducting thin films, sensors and ferromagnetic nano-structures used for Cancer Therapy.</p>
60.	<p>Dr. Jagadeesha Angadi V  Assistant Professor,  Department of Physics,  P. C. Jabin Science College,  Hubballi, Karnataka, Karnataka-  580031  Contact Details:  9980735605(Mobile),  jagadeeshbub@gmail.com</p>	<p>Effect of ion irradiation on the structural, electrical, and magnetic properties of Ho (1-X) R x FeO 3 (R= Ni,Co, Mg) solid solutions for magnetoelectric applications.</p>

#### BTR-4: Ongoing Proposals

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
61.	<p>Dr. Ningombam Linthoingambi Devi Assistant Professor, Central University of South Bihar, SH-7, Gaya-Panchanpur Road District-Gaya-824236, Bihar, India,</p> <p>Contact Details: 9431693017(Mobile), Nldevi@cub.ac.in</p>	Source apportionment of carbonaceous aerosols in Indo-Gangetic region Patna, Bihar using radiocarbon (14C).
62.	<p>Dr. Kaushik Gangopadhyay, Assistant Professor &amp; Head, Department of Archaeology, University of Calcutta, Alipur Campus 1, Reformatory Street, Kolkata-700027</p>	Absolute age determination of Archaeological sites from the palaeodeltaic region of the West Bengal Coast.

#### BTR-5: Low Energy Ion Beam Facility

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
63.	<p>Dr. Rabindra Nath Bhowmik Associate Professor, Department of Physics, Pondicherry University, R.V. Nagar, Pondicherry-605014,</p> <p>Contact Details: 9944064547(Mobile), 4132654636(Office), 9944064547(Home), rnbhowmik.phy@pondiuni.edu.in</p>	Ion implantation effects on magnetism and electronic properties in corundum structured oxide thin films.
64.	<p>Prof. Udai Pratap Singh Kalinga Institute of Industrial Technology, Deemed to be University, Thin Film Photovoltaic Lab (A003), KIIT Univ., Kathjodi Campus, Campus 3, Patia, Bhubaneswar- 751024</p> <p>Contact Details: 9437164748(Mobile), Singhup@kiit.ac.in</p>	Tailoring of hafnium oxide as a material for non-volatile memory by ion beam (Implantation and Irradiation)

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
65.	<p>Dr. Amardeep Bharti Research Associate, Inter-University Accelerator Center, Aruna Asaf Ali Marg, Vasant Kunj New Delhi-110067</p> <p>Contact Details: 9501900277(Mobile), 9501900277(Office), abharti_phy@yahoo.com</p>	<p>Ion Implanted metallic nanoparticles (pure and Co-doped) for plasmonic effects in Perovskite Solar Cells.</p>
66.	<p>Dr. Charu Lata Dube Assistant Professor, Room no. 6, faculty block, Central University of Gujarat, Gandhinagar-382030</p> <p>Contact Details: 8264269023(Mobile), (Office), charulata.dube@cug.ac.in</p>	<p>Radiation damage study in nanocrystalline tungsten based alloy and fiber reinforced tungsten nanocomposites.</p>
67.	<p>Ms. Rashmi Kajal JRF, G.J.U. S.&amp; T Hisar (Haryana), Vill-Jurola, Gurugram-125001</p> <p>Contact Details: 9588172792(Mobile), 9588172792(Office), 9588172792(Home), rashmikajal25@gmail.com</p>	<p>Study of the optical and electrical transport properties of ion implanted composite metal oxides based photoanodes.</p>
68.	<p>Dr. Pankaj Mohanty Lecturer, Department of Physics, University of Johannesburg, PO Box 524 Auckland Park 2006, South Africa</p> <p>Contact Details: 744633714(Mobile), 744633714(Office), pankaj22.mohanty@gmail.com</p>	<p>Low energy ion beam induced modification of structural, magnetic and electronic properties of RCrO<sub>4</sub> and RCrO<sub>3</sub> (R = Gd and Dy) nanostructured material.</p>
69.	<p>Dr. Debasish Datta Assistant Professor, Department of Physics, Presidency University, Kolkata, 86/1, College Street, Kolkata - 700 073.</p> <p>Contact Details: 9433462745(Mobile), <a href="mailto:debasish.physics@presiuniv.ac.in">debasish.physics@presiuniv.ac.in</a></p>	<p>Synthesis and study of Dilute Ferromagnetic Semiconductor materials through ion beam irradiation.</p>

S. No.	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
70.	<p>Mr. Hemant Jatav Ph.D. Scholar, IUAC, New Delhi-110067</p> <p>Contact Details: 7000744113(Mobile), hemantphy95@gmail.com</p>	Study of ion beam interaction in Nano-materials.
71.	<p>Ms. Swetha Rachamalla Research Scholar, Nuclear Physics Department, Andhra University, Visakhapatnam-530003,</p> <p>Contact Details: 8108450840(Mobile), <a href="mailto:swetha.rachamalla@yahoo.com">swetha.rachamalla@yahoo.com</a></p>	Investigation of radiation damage affects on Zirconolite glass–ceramic composite material.
72.	<p>Prof. Shyama Rath Department of Physics &amp; Astrophysics, University of Delhi, Delhi-110007</p> <p>Contact Details: 9811287568(Mobile), Srath@physics.du.ac.in</p>	Defect assessment in implanted 4H-SiC crystals and detectors using optical and ion-beam techniques.