

**SUMMARY OF BEAM TIME/PROJECTS SANCTIONED DURING
ACCELERATOR USERS COMMITTEE (AUC-64) MEETING**

S.No	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
1	<p>Dr. Shubra Singh UGC-Assistant Professor, Crystal Growth Centre, Anna University, Guindy, Chennai, Tamil Nadu-600025 Phone: +91-44-22358351 (O) Mobile: +91-9840422496 shubra6@gmail.com</p>	<p>Ion beam induced tailoring of optical and electrical properties of brownmillerite structured $\text{Ca}_2\text{Fe}_2\text{O}_5$.</p>
2	<p>Dr. Goutami Bhattacharya Deputy Superintending Archaeologist, Archaeological Survey of India, Excavation Branch III, Block No.704, 7th Floor Lok Nayak Bhawan, Frazer Road, Dak Bungalow Chowk, Patna- 800001 (Bihar) Phone: 0612-2203275(O) Mobile: 08877850420/08210411619 bhattacharyaasi81@gmail.com</p>	<p>C14 dating of charcoal samples from Uren, District Lakhisarai, Bihar.</p>
3	<p>Dr. Rachna Raj Principal Investigator- DST-WOSA, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi-110067 Mobile: 9376220681 naveenrachna@gmail.com</p>	<p>Holocene climatic changes based on multiproxy data from fluvial and lacustrine archives of eastern margin of Little Rann of Kachchh, Western India.</p>
4	<p>Prof. Arup Kumar Raychaudhuri Distinguished Professor (Emeritus), S. N. Bose National Centre for Basic Sciences, JD Block, Sector-III, Salt Lake, Kolkata-700106 Phone: +91-33-2335-5709 (O) Fax: +91-33-2335-2733 arup@bose.res.in</p>	<p>Formation of GeO_2 buried layer in Ge wafers through Oxygen Ion implantation.</p>
5	<p>Dr. Yekkoni L. Jeyachandran Assistant Professor (UGC-FRP) Department of Physics, Bharathiar University, Marudhamalai Road, Coimbatore, Pin Code: 641046 Phone: 0422-2428543 (O) Mobile: 9629883882 jeyachandranyekkoni@gmail.com</p>	<p>Investigation of ion irradiation induced structural modifications in pure and Aluminum doped Zinc Tin Nitride thin films.</p>

6	<p>Dr. Dibishada B. Garnayak Superintending Archaeologist (i/c), Archaeological Survey of India, Excavation Branch-IV, Puratattva Bhawan (Ground Floor), Samantarapur, Bhubaneshwar, Odisha, Pin Code: 751002 Phone: 0674-2341081(O) Mobile: +91-9437919887, +91-9337034084 dibishada@gmail.com</p>	<p>C¹⁴ dating Charcoal samples from Bharati Huda (Neo-Chalcolithic Site), district Cuttack, Odisha.</p>
7	<p>Dr. Tathagata Banerjee Visiting Fellow , Saha Institute of Nuclear Physics , 1/AF, Bidhannagar, Kolkata- 700064 Mobile: +91 9643261268 he.tatha@gmail.com</p>	<p>An attempt to resolve the discrepancy between measured and calculated pre-scission neutron multiplicity.</p>
8	<p>Prof. S. S. Islam Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia, Jamia Nagar, New Delhi -110025 Phone: 01126987153 (O) Mobile: 9818424557 sislam@jmi.ac.in</p>	<p>Radiation mediated defect creation on carbon nanomaterials and its effects on their optical and electrical properties.</p>
9	<p>Dr. Feroz Ahmad Mir Assistant Professor, Department of Physics, Baba Gulam Shah Badshah University, Rajouri, Jammu and Kashmir- 185231 Mobile: 07780887961 famirnit@gmail.com</p>	<p>Controlled Ion implantation on the dielectric (polymer) base of some microstrip antenna's for RF applications.</p>
10	<p>Dr. Bhas Bapat Associate Professor (Physics), Indian Institute of Science Education and Research, Pashan,Pune- 411008 Mobile: +91-8237099039 bhas.bapat@iiserpune.ac.in</p>	<p>Interaction strength dependence orientation effect in multiple ionization of CO molecule.</p>
11	<p>Dr. Navjeet Kaur Assistant Professor (Physics), PG Department of Physics, Mata Gujri College, Sri Fatehgarh Sahib-140406, Mobile: 9914138644 navjeetphy@gmail.com</p>	<p>Synthesis and characterization of rare earth doped glasses/phosphors for ion beam dosimetry.</p>
12	<p>Dr. Neelratan Singh Young Scientist /P.I SERB DST , School of Environmental Sciences, JNU New Delhi , PIN Code: 110067 Phone: 91- 9650411528 (O) neelratan.geol@gmail.com</p>	<p>Estimation of erosion rates and exposure ages by using ¹⁰Be in Nubra & Shyok Valleys, Ladakh Himalaya .</p>

13	<p>Prof. Vijay Sathe Department of Ancient Indian History, Culture and Archaeology, Deccan College Postgraduate & Research Institute, Deemed to be University, Pune, Phone: 020-26513235/47 (O) Mobile: 9850036208 vijay.sathe@dcpune.ac.in vijay19sathe@gmail.com</p>	<p>Taphonomy, Palaeoecology and Chronology of large mammalian fossil record in the Manjra valley, Dist. Latur, Maharashtra.</p>
14	<p>Dr. Gopal Mukherjee Scientific Officer (F) , Variable Energy Cyclotron Centre, 1/AF Bidhan Nagar, Kolkata , Pin Code: 700064 Phone: (033)23182321 (O) Fax: 033- 2334-6871 Mobile: 9231615164 gopal@vecc.gov.in</p>	<p>High-spin spectroscopy of ¹⁹⁰Tl and the study of shape evolution in Tl isotopes .</p>
15	<p>Dr. Goutam Sheet Assistant Professor, Indian Institute of Science Education and Research Mohali, Academic Block -1, Sec-81, SAS Nagar, Knowledge City, PO-Manauli, IISER Mohali, Punjab, Phone: 9876489881 (O) goutam@iisermohali.ac.in</p>	<p>Role of extrinsic disorder on the physics of (doped) topological semimetals.</p>
16	<p>Prof. Naresh Chandra Mishra Visiting Professor, Department of Physics, Utkal University, Bhubaneswar, Pin Code: 751004 Phone: 0674-2300766 Mobile: 9437889778 nareshcmishra@gmail.com</p>	<p>Electric Field induced mass transport in the wake of ion beams.</p>
17	<p>Prof. D. K. Avasthi Amity Institute of Nanotechnology, Noida, Pin Code: 201313 Mobile: 9818038430 dka4444@gmail.com</p>	<p>Studies on electronic excitation induced effects by ion beams on Graphene oxide-Pd nanocomposite for H storage .</p>
18	<p>Dr. Shashank Shekhar Assistant Professor, Room No.-121, Department of Geology, University of Delhi, Delhi-110007 Mobile: +91-9212600385 shashankshekhar01@gmail.com</p>	<p>Appraisal of regional and local groundwater-surface water dynamics and residence time using ages determined by Carbon 14 dating in parts of North-Western India.</p>

BTR-2: Thesis Proposals

S.No	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
19	<p>Mr. Akash Padmalal C/o. Prof. D. M. Maurya Department of Geology, Faculty of Science, The M. S. University of Baroda, Vadodara-390002, Gujarat Mobile: 09526364733, 08320104049 (Mr. Padmalal) akash.padmalal47@gmail.com Mobile: 09824438424 (Prof. Maurya) dmmaurya@yahoo.com</p>	<p>Reconstructing tectonic evolution of fault scarps using terrestrial cosmogenic radionuclide (TCN) dating Kachchh, Western India.</p>
20	<p>Ms. Priyanka C/o. Dr. Himani Sharma, School of Physical Sciences, Doon University Dehradun-248012 Mobile: 08954851436 (Ms. Priyanka) bamolapriyanka@gmail.com Mobile: 08979853808 (Dr. Sharma) hsharma.ph@doonuniversity.ac.in</p>	<p>Structure and properties of one dimensional titanium dioxide nanotubes based hybrid structures for light harvesting photocatalytic application .</p>
21	<p>Mr. Rinku Kumar Prajapat C/o. Dr. Moumita Maiti , Department of Physics, IIT Roorkee , Roorkee- 247667 Uttrakhand Mobile: 91-7895111069 (Mr. Prajapat) phy.rinku@gmail.com Mobile: 7579200711(Dr. Maiti) moumifph@gmail.com, moumifph@iitr.ac.in</p>	<p>Study of multi nucleon transfer and fusion reaction dynamics around the coulomb barrier .</p>
22	<p>Ms. Uzma Parveen C/o. Dr. S. Sreekesh, Centre for the Study of Regional Development, School of Social Sciences, Jawaharlal Nehru University, ND-110067 Mobile: 8010788774 (Ms. Parveen) parveen.uzma5@gmail.com Phone: 011-26704574(Dr. Sreekesh) sreekesh@mail.jnu.ac.in</p>	<p>Reconstructing palaeoclimate of Lower Baitarani Basin, Odisha.</p>
23	<p>Ms. Anshu Singh C/o. Dr. Richa Saini , Department of Physics , Gurukul Kangri University, Haridwar-249404 Mobile: 9675147945 (Ms. Singh) anshu.singh2105@gmail.com Mobile: 9412072017 (Dr. Saini) kushwaha.richa@yahoo.in</p>	<p>Synthesis & Characterization of TiO₂:SnO₂ nanocomposites for heterojunction organic solar cell .</p>

24	<p>Mr. Vishal Sharma C/o. Dr. Sunil Kumar Arora Centre for Nanoscience & Nanotechnology, Block II, South Campus, Panjab University, Chandigarh - 160014 Mobile: 9464258045 (Mr. Sharma) contact2008vishu@gmail.com Mobile: 07696265266 (Dr. Arora) aroras@pu.ac.in</p>	<p>Influence of swift heavy ion irradiation on the resistive switching behavior in epitaxial transition metal oxide based heterostructures.</p>
25	<p>Ms. Satabdi Mohanty C/o. Dr. Ajoy Kumar Bhaumik, Applied Geology, IIT (ISM) Dhanbad, Pin Code: 826004 (Jharkhand) Mobile: 7004331123 (Ms. Mohanty) satabdi.mohanty111@gmail.com Phone: 3262235684 ajoy@iitism.ac.in</p>	<p>Holocene climatic and monsoonal variations: Benthic foraminiferal records from Krishna-Godavari and Mahanadi Basins, Bay of Bengal.</p>
26	<p>Ms. Puneet Kuar C/o. Prof. Devinder Paul Singh, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab-143005 Mobile: 9815177521 (Ms. Kaur) puneetphy.rsh@gmail.com Phone: 0183-2258802-09, Ext. 3479 (Prof. Singh) dpsingh.phy@gndu.ac.in</p>	<p>Tuning luminescence in transition metal/ rare earth doped and co-doped semiconductors for optoelectronic applications.</p>
27	<p>Mr. Preetam Singh C/o. Prof. Pankaj Srivastava Department of Physics, IIT Delhi, Hauz Khas, New Delhi-110016 Mobile: 9026729490 (Mr. Singh) prisin204@gmail.com Phone: +91-11-26596558 (O) (Prof. Srivastava) pankajs@physics.iitd.ac.in</p>	<p>Triggering ferromagnetism in pure ZnO by H ion irradiation.</p>
28	<p>Mr. Vishnu Chauhan C/o. Dr. Rajesh Kumar, Assistant Professor of Physics, University School of Basic and Applied Sciences, Guru Gobind Singh Indraprastha University, Dwarka Sector-16-C, New Delhi-110078 Mobile:9718876101 (Mr. Chauhan) kumarrpi@gmail.com Phone: 011-25302966 (Dr. Kumar) Mobile: 9718876101 rajeshkumaripu@gmail.com</p>	<p>Effect of SHI irradiation on CdS based TFTs using ZrO₂ as gate dielectric.</p>

29	<p>Mr. V. Sai Krishna C/o. Dr. Raavi Sai Santosh Kumar, Indian Institute of Technology, Hyderabad (IIT-H), Kandi, Sangareddy, Medak Dist., Telangana, Pin Code: 502285 Mobile: 8333004924 (Mr. Krishna) krishvem@isac.gov.in Phone: 914023018450 (O) (Dr. Kumar) Mobile +91-850006129,+91-7331103902 sskraavi@iith.ac.in</p>	<p>Ion implantation mediated electron dynamics studies for solar cell applications.</p>
30	<p>Mr. Raseel Rahman M K C/o. Prof. Lekha Nair Department of Physics , Jamia Millia Islamia, New Delhi-110025 Mobile: 9496344070 (Mr. Rahman MK) mkraseelrahman@gmail.com Mobile: 9810032194 lnair@jmi.ac.in</p>	<p>Structural, optical, mechanical and electrical analyses of technologically important nonlinear optical single crystals.</p>
31	<p>Mr. Akkanaboina Mangababu C/o. Prof. S. V. S. Nageswara Rao, School of Physics , University of Hyderabad, Hyderabad-500046 Mobile: 9441270010 (Mr. Mangababu) mangababuind@gmail.com Mobile: 9441173473 (Prof. Rao) nageshphysics@gmail.com</p>	<p>Pulsed ion implantation in semiconductors: A study of defect dynamics by ion channeling and coherent acoustic phonon spectroscopy .</p>
32	<p>Mr. Chetan Sharma C/o. Dr. Ashok Kumar Department of Physics, Panjab University, Chandigarh- 160014 Mobile: 9149406396 (Mr. Sharma) chetan1994s@gmail.com Mobile: 9041908468 (Dr. Kumar) ashok@pu.ac.in</p>	<p>Study of the entrance channel effect in fission reaction dynamics measuring the light particle multiplicities.</p>
33	<p>Mr. Depanshu Varshney C/o. Dr. Jai Prakash, Department of Physics, Aligarh Muslim University (AMU), Aligarh (UP), Pin Code: 202002 Mobile: +91 8881470048 (Mr. Varshney) deepanshuk.l.j1993@gmail.com Mobile: 09023440170 (Dr. Prakash) jpsphysics@gmail.com</p>	<p>Memory effect of electron/ proton beam irradiated ferroelectric liquid crystals and its applications.</p>

34	<p>Mr. Nitin Agarwal C/o. Prof. D. Senthil Nathan Department of Earth Sciences, Pondicherry University, Pondicherry-605014 Mobile: 7598403633 (Mr. Agarwal) agarwalnitin5@gmail.com Phone: 9443069430 (Prof. Nathan) senthilom@gmail.com</p>	<p>Palaeoclimate study from the Southern Bay of Bengal using forams as a proxy.</p>
35	<p>Ms. Kajol Chakraborty C/o. Prof. Samit Kr. Mandal Department of Physics and Astrophysics, University of Delhi, Delhi-110007 Mobile: 7835883729 (Ms. Chakraborty) kajolchakraborty.du@gmail.com Phone: +91-11-27662534, +91-9868789924, 9582068428 (Prof. Mandal) smandal.du@gmail.com</p>	<p>Fission time scale measurements around mass ~ 200 region.</p>
36	<p>Ms. Malika Kaushik C/o. Dr. Pushpendra P. Singh, Asst. Professor , Department of Physics , Indian Institute of Technology Ropar , Rupnagar- 140001, Punjab Mobile: +91-9468222077 (Ms. Kaushik), +91-9517729241 , malika.kaushik@iitrpr.ac.in Phone: +91-1881-242122 (Office) (Dr. Singh), +91 – 8283834321 (Mobile) pps@iitrpr.ac.in</p>	<p>Understanding the interplay of different nuclear reactions at low incident energies .</p>
37	<p>Mr. Rais Ahmad Dar C/o. Prof. G. R. Khan Department of Physics, NIT Srinagar, Jammu and Kashmir-190006 Mobile: +919797783162 (Mr. Dar) rayeesdar@gmail.com Mobile: 09419007168 (Prof. Khan) gr_khan@rediffmail.com</p>	<p>Nanocomposites of ZnO thin films.</p>
38	<p>Mr. Suhail Iqbal Malik C/o. Dr. G. R. Khan, Department of Physics, NIT Srinagar, Jammu and Kashmir-190006 Mobile: 09419524175 (Mr. Malik) suhailiqbal3704@gmail.com Mobile:09419007168 gr_khan@rediffmail.com</p>	<p>Nano-composites of TiO₂ thin films.</p>

39	Mr. Saurabh Kumar Singh C/o. Prof. Jayant K Tripathi ,Lab No. 013, School of Environmental Sciences , Jawaharlal Nehru University, New Delhi-110067 Phone: 7065216967 (Mr. Singh) saurabhjnu2012@gmail.com	Geochemistry of late holocene lake sediments of Bundelkhand craton.
40	Mr. Sahil C/o. Prof. Pratik Kumar Medical Physics Unit, IRCH, AIIMS, New Delhi-29 Mobile: 09871576797 (Mr. Sahil) sonu04rajput@gmail.com Mobile: 09810197511(Mr. Sahil) drpratikkumar@gmail.com	Synthesis and characterization of optically stimulated luminescent materials under the plasmon resonance condition for their medical dosimetry applications.

BTR-3: UFR Proposals

S.No	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
41	Dr. E. Prasad Assistant Professor, Dept. of Physics, School of Physical Sciences, Central University of Kerala, Thejaswini Hills, Periye, Pin Code: 671316 Mobile: +91-8589994389 (O) prasadcukerala@gmail.com	Systematic investigation of the effect of neutron excess in ER survival probability against fission in heavy ion fusion reactions.
42	Dr. Abhinav Pratap Singh Assistant Professor, Physics Department, Dr. B. R. Ambedkar National Institute of Technology, Bypass G T Road, Jalandhar, Pin Code: 144011 Phone: +91-181-2690-301,3250 (O) Mobile: 9915240730 abhi.pr.s@gmail.com , jaiswarsinghap@nitj.ac.in	Study of evolution of ZnSnO ₃ phase in pure and doped Zinc Stannate thin films with swift heavy ion irradiation.
43	Prof. Bijoy Kumar Kuanr, Professor & Chairperson, Special Center for Nanoscience, Jawaharlal Nehru University, Delhi-110067 Phone: 011-26738784 (O) Mobile: 9810697415 bijoykuanr@mail.jnu.ac.in , bkkuanr@gmail.com	Selective ion implantation in layered magnetic nanostructures for spintronics devices.
44	Prof. Sanjiv Puri Department of Basic and Applied Sciences, Punjabi University, Patiala, Pin Code: 147002 Phone: 0175-3046336 (O) Mobile: 09815603759 sanjivpurichd@yahoo.com	Investigation of projectile-energy and -Z dependence of cross sections for production of M X rays of some heavy elements by low velocity ion beams.

45	<p>Prof. Sanjay J. Dhoble Department of Physics, Rashtrasant Tukadoji Maharaj(RTM) Nagpur University, Nagpur-440033, (Maharashtra) Phone:0712-2500083(O) 0712-2251361,0712-2250180(R) Mobile: 09822710204 sjdhoble@rediffmail.com</p>	<p>Tailoring the luminescence properties of color-tunable phosphors using swift heavy ion beam .</p>
46	<p>Prof. Sunita Keshri Head, Dept. of Physics, Birla Institute of Technology, Mesra, Ranchi, Jharkhand, Pin Code: 835215 Phone: 0651-2275522 (O) Mobile: 09431105821 Fax: 0651-2275401 s_keshri@bitmesra.ac.in</p>	<p>Effect of Ion beam irradiation on the dielectric, ferroelectric and optical properties of (K, Na) NbO₃ films.</p>
47	<p>Prof. N. A. Shah Department of Physics, Saurashtra Univeristy, Rajkot, Gujarat Pin Code- 360005 Telephone: +91-281-2588428 (O) Mobile: +91-9099939450 Fax: +91-281-2586983 snikesh@yahoo.com</p>	<p>Anisotropic magnetoelecric and magnetotransport properties of manganite based thin films.</p>
48	<p>Dr. Pawan Kumar HOD & Associate Professor, Dept. of Physics & Astronomy, NIT Rourkela , Pin Code: 769008 Phone: 0661-2462726 (O) 0661-2463726 ® Mobile: 9338717846 Fax: 916612462739 pvn772004@yahoo.co.in, pawankumar@nitrkl.ac.in</p>	<p>Effect of Swift heavy ion irradiation on dielectric, ferroelectric and leakage current properties of SBT based bulk and thin films .</p>
49	<p>Dr. R. T. Rajendrakumar Associate Professor , Department of Nanoscience and Technology, Bharathiar University, Coimbatore, Tamil Nadu - 641046 Phone: 04222428446 (O) 0422 2344780 (R) Mobile: +91-9789757888 rtrkumar@buc.edu.in</p>	<p>Swift heavy ion irradiation effects on the texture, microstructural and piezoelectric properties of reactivel sputtered, aluminium nitride thin films.</p>
50	<p>Prof. Sujit Tandel UGC Associate Professor , UM-DAE Centre for Excellence in Basic Sciences, University of Mumbai, Kalina, Santacruz(East), Mumbai - 400098 Phone: 022 26530224 (O) Mobile: 09619595271 sujit.tandel@cbs.ac.in sktandel@gmail.com</p>	<p>Competition between intrinsic and non-axial collective states in Au isotopes .</p>

51	<p>Prof. Bivash Ranjan Behera Professor of Physics , Department of Physics, Centre for Advanced study in Physics, Panjab University, Sector-14, Chandigarh 160014 Phone: 917202534460 (Office); 9815324956 (Residence) Mobile: 9815324956 Fax: 91-172-2783336 bivash@pu.ac.in, bivashbehera@yahoo.co.in</p>	<p>Search for anomalous particle spectra in heavy ion induced fusion reaction.</p>
52	<p>Dr. Pradip Das Assistant Professor, Department of Pure and Applied Physics, Guru Ghasidas University, Koni, Bilaspur, Pin Code: 495009 Phone: 07752-260477 (O) Mobile: 9407734453 pradipd.iitb@gmail.com</p>	<p>Weak anti-localization and quantum oscillations in topological insulator using ion irradiation.</p>
53	<p>Dr. Prakash Nath Vishwakarma Associate Professor, Department of Physics and Astronomy, National Institute of technology Rourkela, Dist.-Sundargarh, Odisha-769008 Phone: 0661-2462728 (O) 0661-2463728 @ Mobile: 9437140165 Fax: 0661-2462022, 0661-2472926 prakashn@nitrkl.ac.in; pnviisc@gmail.com</p>	<p>Irradiation effect on the magnetoelectricity of multifunctional materials.</p>
54	<p>Dr. Ashish R. Tanna Associate Professor, Department of Physics, School of Science, RK University, Kasturbadham (Tramba) Rajkot - 360020 Gujarat Phone: +91-9909952030 Ext-312(Off.) Mobile:+91-9427550255 ashishrtanna@mail.com</p>	<p>To study the effect of swift heavy ion irradiation on the structural and magnetic properties of bulk and nano $\text{Co}_{0.5}\text{Mn}_{0.5}\text{R}_x\text{Fe}_{2-x}\text{O}_4$ ($\text{R}=\text{Al}^{3+}$ & Cr^{3+}) ferrites.</p>
55	<p>Dr. Rajeev K. Gupta Sr. Associate Professor, Department of Physics, University of Petroleum and Energy Studies, via Prem Nagar, Bidholi, Dehradun-248001, Uttarakhand Phone: 0135 - 2770137 (Extn 1414) Mobile: (+91), 9897716629 rajeevguptaupes@gmail.com; rajeev@ddn.upes.ac.in</p>	<p>Ion beam induced modification in polymer to develop antimicrobial coating for medical applications.</p>

56	<p>Dr. Balaprasad G. Ankamwar, Associate Professor, Dept. of Chemistry, SP Pune University, Ganeshkhind, Pin Code: 411007 Phone: 020-25601367 (O), 09823109308 ® Mobile: 09765296665 Fax: 020-25691728 sb180305@gmail.com</p>	<p>Investigation on rapid detection of bacteria using nanoparticles and radiation biology beam lines: A comparative study with low and high linear energy transfer.</p>
57	<p>Prof. A M Vinodkumar Department of Physics, Calicut University , Kerala -673635 Phone: 04942407415 (O) Mobile: 09645078924 attukalathil@gmail.com</p>	<p>Neutron multiplicity measurements for Md (Z=101) isotopes and their relevance to super heavy element production.</p>
58	<p>Dr. Rahul Singhal Assistant Professor , Department of Physics , JLN Marg, Malviya Nagar, Jaipur –302017 Phone: 0141-2713152 (O) Mobile: 9549654378 rsinghal.phy@mnit.ac.in</p>	<p>Fullerene based nanostructures by low energy ion bombardment .</p>
59	<p>Prof. P. D. Sahare Professor of Physics , Department of Physics & Astrophysics, University of Delhi, Delhi – 110 007 Phone: 011-27666161 (O) Mobile: +91-9811438818 Fax: 011-27667061 pdsahare@yahoo.co.in ; pdsahare@physics.du.ac.in</p>	<p>Dosimetry of different swift ion beams of different energies: effect of fluence and energy.</p>
60	<p>Dr. Manoj Kumar Assistant Professor, High Pressure Physics Lab., Department of Physics, Malaviya National Institute of Technology(MNIT) Jaipur- 302017 Phone: 0141-2713496 Mobile: +91-9549659761 Mkumar.phy@mnit.ac.in kmanujk@gmail.com</p>	<p>Tuning the properties of topological insulators by ion implantation.</p>
61	<p>Dr. Kamalendra Awasthi Assistant Professor , Department of Physics, Malaviya National Institute of Technology, JLN Road, Jaipur- 302017, Rajasthan Phone: 0141-2713441 (O) 0141-2713541 ® Mobile: 09414406599 kamalendra.awasthi@gmail.com</p>	<p>Optical and structural properties of defects in rare earth ion implanted ZnO nanostructures.</p>

62	<p>Dr. Srinivasa Rao Nelamarri Assistant Professor, Department of Physics, Malaviya National Institute of Technology Jaipur JLN Marg, Jaipur - 302017, Rajasthan Phone: 0141-2713433 (O) 0141-2713133 (R) Mobile: 09549654851 / 09636337638 srnelamarri.phy@mnit.ac.in, srinivashcu@gmail.com</p>	<p>Effect of low energy ion implantation on the structural and optical properties of $K_xNa_{1-x}NbO_3$ thin films .</p>
63	<p>Prof. P. K. Bajpai Professor & Head Department of Pure & Applied Physics, Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur (C.G.)-495009 Phone: 91-7752-260159 (O) 91-7752258828 (R) Mobile: 09424154024 Fax: 91-7752-260148 bajpai.pk1@gmail.com</p>	<p>Probing synergistic effects of ion beam irradiation in synergistic and swift heavy ion regimes in BiFeO₃ based room temperature multiferroics.</p>
64	<p>Dr. Manika Khanuja Assitant Professor , Jamia Millia Islamia University, New Delhi – 110025 Mobile: 9810076796 manikakhanuja@gmail.com</p>	<p>Effect of ion beam irradiation to create Sulphur vacancy for high photoresponsivity & Gas sensitivity in MS₂ (M= Mo, W) films.</p>
65	<p>Prof. Pramod Singh Department of Earth Sciences, School of Physical, Chemical and Applied Sciences, Pondicherry University Kalapet, Pondicherry- 605014 Phone: 0413-2654489 (O) Mobile: 9442625562 pramods@yahoo.com</p>	<p>¹⁴C dating of sediment core from Ponnaiyar River Basin implication to understanding the temporal variation in organic matter source.</p>
66	<p>Dr. Feroz Ahmad Mir Assistant Professor, Department of Physics, Baba Gulam Shah Badshah University, Rajouri, Jammu and Kashmir-185231 Mobile: 07780887961 famirnit@gmail.com</p>	<p>Modulations of physical properties of some substrates of microstrip antena's by SHI irradiations.</p>
67	<p>Prof. Ratnesh Gupta School of Instrumentation, Devi Ahilya Vishwavidyalaya, Khandwa Road, Indore, Pin Code: 452001 Phone: 0731-2462228 (O) 0731-2795552 (R) Mobile: 09165360552 gratnesh_oi@yahoo.com</p>	<p>Modifications of exchange bias and training effects in FeCo/CoO and FeCo/NiO bilayers .</p>

BTR-5: LOW ENERGY ION BEAM FACILITY

S.No	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
1	Dr. K. Rawat DST-INSPIRE Faculty, IUAC & SCNS, JNU, New Delhi Mailing Address: Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi-110067 Phone:27604699(O) Mobile: 9013461490 kamla.jnu@gmail.com , krawat.iuac@gmail.com	Impact of ion beam- irradiation on the low dimensional materials.
2	Dr. V. V. Siva Kumar Scientist 'F' Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi-110067 Phone: 011-26893955(O) Mobile: 09312032452 vvsk@iuac.res.in	Plasmonic ZnO nanocomposites for ultraviolet light photosensing.
3	Mr. Afroz Khan C/o. Dr. Faiyazur Rahman, (Associate Professor), Department of Physics, Aligarh Muslim University, Aligarh-202002 Mobile: 8267929202 (Mr. Khan) afrozkhanged4711@gmail.com Mobile : 9897269108 (Dr. Rahman) faiziphys@gmail.com	Synthesis and characterization of doped and undoped indium oxide thin film.
4	Dr. Yekkoni L. Jeyachandran Assistant Professor (UGC-FRP) Department of Physics, Bharathiar University, Marudhamalai Road, Coimbatore, Pin Code: 641046 Phone: 0422-2428543 (O) Mobile: 9629883882 jeyachandranyekkoni@gmail.com	Effect of Aluminum ion implantation on the structure and properties of Zinc Tin Nitride thin films.
5	Prof. M Junaid Bushiri Department of Physics, Cochin University of Science and Technology , Kochi-22, Kerala - 682022 Phone: 0484 2577404 (O) Mobile: 9495348631 Fax. 0484-2577595 junaidbushiri@gmail.com	Tuning of photoluminescence emission in PANI and tea tree oil thin films by low energy ion implantation.
6	Prof. Sanjiv Puri Department of Basic and Applied Sciences, Punjabi University, Patiala- 147002 Phone: 0175-3046336 (O) Mobile: 09815603759 sanjivpurichd@yahoo.com	Investigation of projectile-energy and -Z dependence of cross sections for production of M X rays of some heavy elements by low velocity ion beams.

7	<p>Prof. Sankar Dhar Head , Dept. of Physics , School of Natural Sciences , Shiv Nadar University , Dadri, Gautam Budh Nagar , Pin Code: 201314 Phone: 9123300977 (O) Mobile: 8750464017 sankar.dhar@snu.edu.in</p>	<p>Synthesis of anatase and rutile TiO₂ nanoparticle interfaces or junctions by ion beam for anti-biofouling & energy applications .</p>
8	<p>Prof. Debnarayan Jana Department of Physics, University of Calcutta , 92, A.P.C Road, Kolkata Phone: 91-33-2350 8386 , Extn. 413(O) 09830549937 ® Mobile: 09830549937 djphy@caluniv.ac.in</p>	<p>Study of evolution of defects in Nitrogen (N), Phosphorus (P), (P-N) Co-Implanted ZnO and their recovery.</p>
9	<p>Prof. S. S. Islam Centre for Nanoscience and Nanotechnology , Jamia Millia Islamia , Jamia Nagar, New Delhi -110025 Phone: 01126987153 (O) Mobile: 9818424557 sislam@jmi.ac.in</p>	<p>Optical and electrical properties of Ion implanted CNT and Graphene.</p>
10	<p>Dr. Aditya H. Kelkar Assistant Professor, Dept. of Physics, Indian Institute of Technology Kanpur-208016 Phone: 0512-2597985 (O) Mobile: 08452872078 akelkar@iitk.ac.in</p>	<p>Study of molecular fragmentation dynamics using recoil ion momentum spectrometer.</p>
11	<p>Dr. Raavi Sai Santosh Kumar Assistant Professor, Indian Institute of Technology, Hyderabad (IIT-H), Kandi, Sangareddy, Medak Dist., Telangana - 502285 Phone: 914023018450 (O) Mobile: +91-850006129,+91-7331103902 sskraavi@iith.ac.in</p>	<p>Effect of low energy Ag/Au/Ag- Au (co-doped) ion implantation mediated electron transfer dynamics studies for solar cell applications.</p>
12	<p>Dr. Chetan Prakash Saini Research Associate, Materials Science Division, Inter-University Accelerator Centre (IUAC), Aruna Asaf Ali Marg, New Delhi- 110067 Mobile: 91-8826678750 cs810@snu.edu.in</p>	<p>The role of ion-beam-induced defects on HfO₂-based resistive switching devices.</p>
13	<p>Dr. Utkarsh Jain Assistant Professor , Amity Institute of Nanotechnology (AINT) , J2, Room No-308, 3rd Floor, Amity University, Noida-201313 Phone : 0120-4392130 (O) Mobile : 7042663347 utkarshmicromvp@gmail.com</p>	<p>Ion irradiated zinc oxide tetrapods based biohybrid interface for improved voltammetric sensing .</p>

14	Dr. Srimanta Middey Assistant Professor , Department of Physics , Indian Institute of Science , Bengaluru Phone : 080-22932861 (O) 080-23609152 (R) Fax : 080-23602602 smiddey@iisc.ac.in	Investigation of single terminated oxide substrates using ion beam .
15	Prof. D. K. Avasthi Amity Institute of Nanotechnology, Noida , Pin Code: 201313 Mobile: 9818038430 dka4444@gmail.com	Irradiation studies (in elastic collision regime) of Graphene oxide-Pd nanocomposite for H storage.
16	Dr. Sarvesh Kumar Scientist, IUAC, Post Box-10502, Aruna Asaf Ali Marg, New Delhi-110067 Phone: 9910955649 (O) Mobile: 9910955649 sariuac@gmail.com	Drift wave instabilities and other collective instabilities in ECR ion sources.
17	Dr. Garima Vashisht Room No. 78, Department of Physics and Astrophysics, University of Delhi, Pin Code: 110007 Mobile: 9871744027 garimavashisht7@gmail.com	Ion beam induced controlled diffusion in magnetic multilayers.
18	Dr. Kamalendra Awasthi Assistant Professor , Department of Physics, Malaviya National Institute of Technology, JLN Road, Jaipur- 302017, Phone: 0141-2713441 (O) 0141-2713541 ® Mobile: 09414406599 kamlendra.awasthi@gmail.com	Optical and structural properties of defects in rare earth ion implanted ZnO nanostructures .
19	Mr. Pankaj Singh Rawat C/o. Prof. R. C. Srivastava Department of Physics, CBS&H, G. B. Pant University of Ag. & Tech. Pantnagar, Uttarakhand, Pin Code: 263145 Phone: 9760482044 (Mr. Rawat) Mobile : 8958673241 Mobile: 9410173061 (Prof. Srivastava) rksrivastava123@gmail.com	Study of low energy ion beam irradiation induced effect in ferrite based graphitic nanocomposites and thin films.
20	Dr. Rajendra S Dhaka Assistant Professor , IIT Delhi , Hauz Khas , New Delhi -110016 Phone: 011-2659-1439 (O) rsdhaka@physics.iitd.ac.in	Irradiation induced effects on the structural, electronic and magnetic properties of $\text{Co}_2\text{Cr}_{1-x}\text{Ni}_x\text{Al}$ Heusler alloys
21	Dr. P. Matheswaran Assistant Professor, Department of Physics, Kongunadu Arts and Science College, Coimbatore-641029 Mobile: 8489622002 mathesphy@gmail.com	Electrical switching properties of low ion beam irradiated indium chalcogenide.

22	<p>Mr. Munish Kumar C/o. Dr. Ramesh Kumar Department of Physics, Guru Jambheshwar University of Science & Technology Hisar Haryana-125001 Mobile: 09416146064 (Mr. Kumar) munishsodhi85@gmail.com Mobile: 08053040247 (Dr. Ramesh Kumar) Rameshkumar.bibiyana@gmail.com</p>	<p>Synthesis of noble metal nanostructures by ion beam irradiation and their characterization.</p>
23	<p>Mr. Sahil C/o. Prof. Pratik Kumar Medical Physics Unit, IRCH, AIIMS, New Delhi-29 Mobile: 09871576797 (Mr. Sahil) sonu04rajput@gmail.com Mobile: 09810197511 (Mr. Sahil) drpratikkumar@gmail.com</p>	<p>Synthesis and characterization of optically stimulated luminescent materials under the plasmon resonance condition for their medical dosimetry applications.</p>
24	<p>Dr. Abhinav Pratap Singh Assistant Professor, Physics Department, Dr. B. R. Ambedkar National Institute of Technology, Bypass G T Road, Jalandhar, Pin Code: 144011 Phone: +91-181-2690-301,3250 (O) Mobile: 9915240730 abhi.pr.s@gmail.com, jaiswarsinghap@nitj.ac.in</p>	<p>Study of evolution of ZnSnO₃ phase in pure and doped Zinc Stannate thin films with swift heavy ion irradiation.</p>
25	<p>Mr. Akkanaboina Mangababu C/o. Prof. S. V. S. Nageswara Rao, School of Physics , University of Hyderabad, Hyderabad-500046 Mobile: 9441270010 (Mr. Mangababu) mangababuind@gmail.com Mobile: 9441173473 (Prof. Rao) nageshphysics@gmail.com</p>	<p>Pulsed ion implantation in semiconductors: A study of defect dynamics by ion channeling and coherent acoustic phonon spectroscopy .</p>
26	<p>Prof. Tapobrata Som Institute of Physics (IOP), Sachivalaya Marg, Bhubaneswar, Pin Code: 751005 Phone: 0674-230-6483 (O) Mobile: +91-9437010830 Fax: 0674-2300142 tsom@iopb.res.in/ tsomiop@gmail.com</p>	<p>Ion-beam fabrication of extremely regular grating-like nanostructures on Ge.</p>
27	<p>Ms. Dilruba Hasina Research Scholar, C/o. Prof. T. Som, Institute of Physics, Sachivalaya Marg, Bhubaneswar, Phone: 0674-230-6483 (O) Mobile: 83250833769 Fax: 0674-2300142 dilruba@iopb.res.in</p>	<p>Ion implantation induced tunable resistive switching property of HfO₂ thin films.</p>

28	Dr. Anindya Sarkar Assistant Professor In Physics , Bangabasi Morning College (Under University of Calcutta), Mailing Address: 19, Rajkumar Chakraborty Sarani, Kolkata, Phone: 033-2350 9210 (O) sarkarcal@gmail.com	Effect of low energy sulphur and nitrogen implantation in ZnO.
29	Prof. Arup Kumar Raychaudhuri Distinguished Professor (Emeritus), S. N. Bose National Centre for Basic Sciences, JD Block, Sector-III, Salt Lake, Kolkata-700106 Phone: +91-33-2335-5709 (O) Fax: +91-33-2335-2733 arup@bose.res.in	Formation of GeO ₂ buried layer in Ge wafers through Oxygen Ion implantation.
30	Mr. Raja Saifu Rahman C/o. Prof. Mohammad Zulfequar, Department of Physics, Jamia Millia Islamia (A Central University), New Delhi-110025 Mobile: 7290971058 (Mr. Rahman) sairaja7@gmail.com Mobile: 9811222035 (Prof. Zulfequar)	Study of the physical properties of nanostructured chalcogenide based compound semiconductors.
31	Ms. Priyanka C/o. Dr. Himani Sharma, School of Physical Sciences, Doon University Dehradun, Mobile: 08954851436 (Ms. Priyanka) bamolapriyanka@gmail.com Mobile: 08979853808 (Dr. Sharma) hsharma.ph@doonuniversity.ac.in	Structure and properties of one dimensional titanium dioxide nanotubes based hybrid structures for light harvesting photocatalytic application .
32	Ms. Anshu Singh C/o. Dr. Richa Saini , Department of Physics , Gurukul Kangri University, Haridwar-249404 Mobile: 9675147945 (Ms. Singh) anshu.singh2105@gmail.com Mobile: 9412072017 (Dr. Saini) kushwaha.richa@yahoo.in	Synthesis & Characterization of TiO ₂ :SnO ₂ nanocomposites for heterojunction organic solar cell .
33	Ms. Puneet Kuar C/o. Prof. Devinder Paul Singh, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab Mobile: 9815177521 (Ms. Kaur) puneetphy.rsh@gmail.com Phone: 0183-2258802-09, Ext. 3479 (Prof. Singh) dpsingh.phy@gndu.ac.in	Tuning luminescence in transition metal/ rare earth doped and co-doped semiconductors for optoelectronic applications.

34	Dr. Pradip Das Assistant Professor, Department of Pure and Applied Physics, Guru Ghasidas University, Koni, Bilaspur, Phone: 07752-260477 (O) Mobile: 9407734453 pradipd.iitb@gmail.com	Weak anti-localization and quantum oscillations in topological insulator using ion irradiation.
35	Dr. Manoj Kumar Assistant Professor, High Pressure Physics Lab., Department of Physics, Malaviya National Institute of Technology(MNIT) Jaipur- 302017 Phone: 0141-2713496 Mobile: +91-9549659761 Mkumar.phy@mnit.ac.in kmanujk@gmail.com	Tuning the properties of topological insulators by ion implantation.
36	Dr. Srinivasa Rao Nelamarri Assistant Professor, Department of Physics, Malaviya National Institute of Technology Jaipur JLN Marg, Jaipur - 302017, Rajasthan Phone: 0141-2713433 (O) 0141-2713133 (R) Mobile: 09549654851 / 09636337638 srnelamarri.phy@mnit.ac.in , srinivashcu@gmail.com	Effect of low energy ion implantation on the structural and optical properties of $K_xNa_{1-x}NbO_3$ thin films .
37	Prof. P. K. Bajpai Professor & Head Department of Pure & Applied Physics, Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur (C.G.)-495009 Phone: 91-7752-260159 (O) 91-7752258828 ® Mobile: 09424154024 bajpai.pk1@gmail.com	Probing synergistic effects of ion beam irradiation in synergistic and swift heavy ion regimes in BiFeO ₃ based room temperature multiferroics.
38	Prof. Sanjay J. Dhoble Department of Physics, Rashtrasant Tukadoji Maharaj(RTM) Nagpur University, Nagpur-440033 (Maharashtra) Phone:0712-2500083(O) 0712-2251361,0712-2250180(R) Mobile: 09822710204 sjdhoble@rediffmail.com	Analysis of the structural and morphological modification of rare earth (RE=Eu;Dy;Ce) activated phosphate phosphors using swift heavy ion beams and ion sputtering (Ar; Ne).
39	Dr. Prakash Nath Vishwakarma Associate Professor, Department of Physics and Astronomy, National Institute of technology Rourkela, Dist.-Sundargarh, Odisha-769008 Phone: 0661-2462728 (O) 0661-2463728 ® Mobile: 9437140165 prakashn@nitrkl.ac.in ; pnviisc@gmail.com	Irradiation effect on the magnetoelectricity of multifunctional materials.

40	<p>Dr. Rahul Singhal Assistant Professor , Department of Physics , JLN Marg, Malviya Nagar, Jaipur – 302017, Rajasthan Phone: 0141-2713152 (O) Mob.: 9549654378 rsinghal.phy@mnit.ac.in</p>	Fullerene based nanostructures by low energy ion bombardment .
41	<p>Dr. R. T. Rajendrakumar Associate Professor , Department of Nanoscience and Technology, Bharathiar University, Coimbatore, Tamil Nadu Phone: 04222428446 (O) 0422 2344780 (R) Mobile: +91-9789757888 rtrkumar@buc.edu.in</p>	Swift heavy ion irradiation effects on the texture, microstructural and piezoelectric properties of reactive sputtered, aluminium nitride thin films.
42	<p>Dr. Shubra Singh UGC-Assistant Professor, Crystal Growth Centre, Anna University, Guindy, Chennai, Tamil Nadu-600025 Phone: +91-44-22358351 (O) Mobile: +91-9840422496 shubra6@gmail.com</p>	Ion beam induced tailoring of optical and electrical properties of brownmillerite structured $\text{Ca}_2\text{Fe}_2\text{O}_5$.