

**SUMMARY OF BEAM TIME/PROJECTS SANCTIONED DURING
ACCELERATOR USERS COMMITTEE (AUC-62) MEETING**

S.No	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
1	<p>Prof. Priti J. Mehta Institute of Pharmacy, Nirma University, Sarkhej-Gandhinagar Highway, Chandlodia, Gota, Ahmedabad, Gujarat- 382481 Phone: 079-30642724 (O) Mobile: 9898335567 drpritimehta@nirmauni.ac.in</p>	<p>Impact of ionizing radiation on stability of selected medicines and their formulations.</p>
2	<p>Dr. Umakanta Mishra Assistant Professor, Dept. of History, Ravenshaw University, Cuttack-753003 Mobile: 9938002373 umajnu@gmail.com</p>	<p>The chronology of the chalcolithic site of the excavated site of Deltihuda Mounds, Talagarh, Cuttack Dist.</p>
3	<p>Dr. Narendra K. Meena Scientis- "C" Wadia Institute of Himalayan Geology, 33 GMS Road, Dehradun – 248001 Phone: 01352525365 Mobile: 8171360700 naren@wihg.res.in narendes@gmail.com</p>	<p>Late-Quaternary paleomonsoon study in Ladakh, North Western Himalaya and Indo- Gangetic plain, India.</p>
4	<p>Dr. N. Manikanthababu SERB- National Post-Doctoral Fellow, Indira Gandhi Centre for Atomic Research (IGCAR), Room No.194 A/B, 17th Avenue JRF Enclave, DAE Township Kalpakkam-603102 Phone: 040-27480500;22125(O) 040-27488710 (R) Mobile: 07598697840/09441268840 maniphysics07@gmail.com</p>	<p>Fabrication and swift heavy ion engineering of Ga₂O₃ based new generation devices for high power applications.</p>
5	<p>Dr. Daniel Doherty Lecturer in Experimental Nuclear Physics, Department of Physics, University of Surrey, Guildford- GU2 7XH, United Kingdom Phone: +44 01483 68 6802 (O) Mobile: +44 07920 017191 d.t.doherty@surrey.ac.uk</p>	<p>Gamma-ray spectroscopy of ³⁹Ca – the end point of nova nucleosynthesis.</p>

6	<p>Dr. Satish S. Naik Research Assistant, Palaeobotany Lab, Dept. of Archaeology, Deccan College Post-Graduate and Research Institute, Deemed University, Pune- 411006 Phone: 020-26513257 (O) Mobile: +91-9850127591 (R) Fax: 020-26513284 satish.naik@dcpune.ac.in</p>	AMS dating of archaeobotanical samples from Vidarbha, Maharashtra.
7	<p>Dr. Sujit Tandel UGC Associate Professor , UM-DAE Centre for Excellence in Basic Sciences (CEBS) , Mumbai-400098 Mailing Address: University of Mumbai, Kalina, Santacruz (East), Mumbai , Pin Code: 400098 Phone: 022-26530224 (O) Mobile: 09619595271 sujit.tandel@cbs.ac.in sktandel@gmail.com</p>	K isomers and rotation alignments in Am isotopes.
8	<p>Prof. H. P. Sharma Department of Physics, Banaras Hindu University, Varanasi , Pin Code: 221005 Mobile: 09336063074 hpsharma_07@yahoo.com</p>	Lifetime measurements of levels of ^{135}Pm with DSAM technique using INGA facility.
9	<p>Prof. H. P. Sharma Department of Physics, Banaras Hindu University, Varanasi, Pin Code: 221005 Mobile: 09336063074 hpsharma_07@yahoo.com</p>	Search for magnetic and anti-magnetic rotation in $^{139,141}\text{Eu}$.
10	<p>Ms. Rubiya Samad Women Scientist-A Fellow Solid State Research Lab., Department of Physics, University of Kashmir, Srinagar, Pin Code: 190006 Mobile: 09622851266 rubiyasamad007@gmail.com</p>	Study of properties of ferrite-ferroelectric composites before and after SHI irradiation.
11	<p>Dr. Manoj Kumar Jaiswal Assistant Professor, Department of Earth Sciences, IISER Kolkata, Mohanpur campus, 741246- Nadia (West Bengal) Phone: 033-6634-0000 (O) Mobile: 09874811800 mkjosl@gmail.com</p>	Late Holocene climate from the Central Ganga Plain, Sultanpur, Uttar Pradesh.

12	<p>Dr. Supriyo Chakraborty Scientist – E Indian Institute of Tropical Meteorology Mailing Address: Dr. Homi Bhabha Road, Pashan, Pune 411008, Maharashtra Phone: +91-20-2590-4427 (O) supriyo@tropmet.res.in</p>	<p>Radiocarbon dating of soil from Kaziranga National Park, India.</p>
13	<p>Dr. Sanjay Kumar Manjul Director, Institute of Archaeology, Archaeological Survey of India, Institute of Archaeology, Red Fort Complex, Delhi-110006 Phone: 011-23277107 (O) Mobile: 8826353635 dirins.asi@gmail.com</p>	<p>C¹⁴ AMS dating and elementary analysis of excavated samples from Binjor (4MSR) and other nearby site i.e. 43GB, 68/2GB, 72 GB.</p>
14	<p>Dr. S. B. Ota Joint Director General (Archaeology), Archaeological Survey of India, Janpath, New Delhi-110011 Mobile: 08447605003 simadriota@gmail.com</p>	<p>C14 dating of charcoal samples from Choskar and wood samples from Tirisha Stupa, Ladakh, J.&K.</p>
15	<p>Dr. Chinmaya Maharana DST-SERB /NPDF AMS Group, IUAC, Aruna Asaf Ali Marg, New Delhi-110067 Mailing Address: C/o. Bhagwan Singh, M 51, Nivedita Kunj, RK Puram, Sec-10, New Delhi-110022 Mobile: 7289927246 chinmaya.maharana25@gmail.com</p>	<p>Carbon dynamics in the Ganga basin: implication to sources, processes and carbon reservoirs.</p>
16	<p>Dr. Abhijit Bisoi Assistant Professor, Indian Institute of Engineering Science and Technology, Shibpur, Department of Physics, IEST Shibpur, Shibpur, Howrah – 711103 Mobile: 09830629051 abhijitbisoi@gmail.com</p>	<p>Search for negative parity partner band in ³⁶Ar.</p>

17	<p>Dr. Sheeja Krishnan Assistant Professor & Head, Visvesvaraya Technological University (VTU), Belagavi, Karnataka (State) Mailing Address: Dr. Sheeja Krishnan Assistant Professor & Head, Department of Physics, SDIT, Kenjar, Mangaluru-574142 Pin Code: 574142 Phone: 0824-2254104 (O) Mobile: 9448623548 Fax: +91-8242254119 sheejakrishnan@gmail.com</p>	<p>A comparative study of the effect of irradiation on polycrystalline solar cells.</p>
18	<p>Dr. Soumya Prakash Dhal Research Associate AMS Group, Inter-University Accelerator Centre (IUAC), Aruna Asaf Ali Marg, Vasant Kunj, New Delhi-110067 Phone: +91-11-26893955 (O) Mobile: +91-9560564046 soumya.dhal@gmail.com</p>	<p>Estimation of present denudation rates of Periyar and Pamba river (Kerala) catchment using $^{10}\text{Be}/^9\text{Be}$ AMS measurements.</p>
19	<p>Dr. Buddha Rashmi Mani Director General National Museum, Janpath, New Delhi-110011 Phone: 23018159,23018046 (O) 0120-4340724 (R) Mobile: 9810528069 Fax: 011-23019821 dgnationalmuseum11@gmail.com</p>	<p>C14 dating of the Charcoal samples from Kunal Excavation, Fatehabad District, Haryana.</p>
20	<p>Dr. V. Selvakumar Assitant Professor, Departemento of Epigraphy and Archaeology, Tamil University, Thanjavur-613010 Phone: 91-9940946086 (O) Mobile: 9442112601, 9940946086 selvakumarodi@gmail.com</p>	<p>Beginning of agriculture and the Iron Age in the lower Kaveri Valley and South India.</p>
21	<p>Dr. Neera Sen Sarkar Assistant Professor, Phycology Section, Department of Botany, University of Kalyani, West Bengal- 741235 Phone: 03325951526 (R) Mobile: +91-9830545889 Fax: 03325828282 neerashen@yahoo.co.in</p>	<p>Diatom assemblages in sediment cores of the deltaic island of the Indian Sundarbans and their palaeoecological significance.</p>

22	Dr. Navneet Kaur Assistant Professor, S. D. College Ambala Cantt. (Kurukshetra University) Mailing Address: #7678/4, Nadi Mohalla, Ambala City- 134003 Mobile: 8901189205 nvneet86@gmail.com	The incomplete fusion in $^{14}\text{N}+^{159}\text{Tb}$ system at IUAC pelletron energies.
23	Dr. Bhuvan Vikrama Superintending Archaeologist, Agra Circle, Archaeological Survey of India, 22 the Mall, Agra, Pin Code: 282001 Phone: 0562-227261,62,63 (O) Mobile: 8392920505 circleagra.asi@gov.in , bhushri007@gmail.com	AMS dating of samples from the excavated site of Ahichhatra, Teh. Aonla, Dist. Barreilly, UP.
24	Dr. Manju Bala Post-Doctorate Fellow Department of Physics and Astrophysics, University of Delhi, Delhi Pin Code: 110007 Mobile: 8745037342 manjubala474@gmail.com	Ion beam induced modifications in magnetic properties of soft ferromagnetic thin films.
25	Dr. C. Shivakumara Principal Research Scientist , Solid state and Structural Chemistry Unit, Indian Institute of Science, Bangalore, Pin Code: 560012 Phone: 08022932951 (O) Mobile: 9448480684 shiva@sscu.iisc.ernet.in	Effect of Ion beam irradiation on Bismuth-Oxy halides for enhanced photocatalytic activity.
26	Dr. S. Krishnaveni Assistant professor, DOS in Physics, University of Mysore, Manasagangotri, Mysuru-06 Pin Code: 570006 Mobile: 09844023568 sk@physics.uni-mysore.ac.in	Studies on ion beams induced defects in GaN Schottky Interface.
27	Ms. Golda K.S. Scientist IUAC, Aruna Asaf Ali Marg, New Delhi-110067 goldaks@gmail.com	Study of reaction mechanism in actinide nuclei.

28	<p>Dr. (Ms.) Compesh Pannu Research Associate , Indian Institute of Technology Delhi Mailing Address: C/o Prof. Santanu Ghosh, Department of Physics, Indian Institute of Technology Delhi, Hauz Khas, New Delhi -110016 Phone: +91-11-26591348 (O) Mobile: 8860995372 compesh@gmail.com</p>	<p>Investigation of metal concentration dependent field emission studies of ion beam irradiated FeCo-silica nanocomposite thin films.</p>
29	<p>Mr. Deepak Kumar Swami Scientist-C Inter University Accelerator Centre, Aruna Asaf Ali Marg, Vasant Kunj, New Delhi-110067 Phone: 26893955 (Extn. 8207) Mobile: 9555638289 Deepak37swami@gmail.com</p>	<p>Investigating the role of the surface electron capture processes in the charge state distributions.</p>
30	<p>Dr. Suresh Kumar Assistant Professor and RSO, Department of Physics and Astrophysics, University of Delhi (North Campus), New Delhi-110007 Phone: 011-27667796, 7155 (O) 011-27608044 (R) Mobile: 09599762352 sursvmk123@gmail.com</p>	<p>Search for large octopole collectivity and high spin isomers in $^{215,217,219}\text{Ac}$ near N=126 shell closure .</p>
31	<p>Prof. Satyabrata Patnaik At, Condense Matter Physics Lab-119, School of Physical Sciences(SPS), Jawaharlal Nehru University, New Delhi- 110067 Phone: 011-26704783 (O) Mobile: 09013965119 spatnaikjnu@gmail.com, spatnaik@mail.ac.in</p>	<p>Effect of Ion beam irradiation on superconducting properties of novel superconductors $\text{Sr}_{0.1}\text{Bi}_2\text{Se}_3$ and endohedral binary intermetallic $\text{Mo}_8\text{Ga}_{41}$.</p>
32	<p>Dr. Hari Pratap Bhasker SERB-National Postdoctoral Fellow, Department of Physics, Motilal Nehru National Institute of Technology, Teliarganj, Allahabad-211004 Mobile: +91-9769892513 hpb.bhu@gmail.com</p>	<p>Engineering structural, optical and transport properties of GaN nanostructured thin films induced by Swift Heavy Ion irradiation.</p>

33	<p>Dr. Rajeev Saraswat Senior Scientist National Institute of Oceanography, Geological Oceanography Division, Dona Paula, Goa, Pin Code: 403004 Phone: 0832-2450622/489 (O) Mobile: 9421249860 rsaraswat@nio.org</p>	Reconstructing Holocene sea level changes from the western margin of India.
34	<p>Dr. V. S. Vendamani National Postdoc Fellow (N-PDF) , Inter-University Accelerator Centre , Aruna Asaf Ali Marg , Near Vasanth Kunj , New Delhi -110067 Mobile: +91-8328393668 manishavsv@gmail.com</p>	Ion beam assisted fabrication of metal nanoparticles embedded Si/TiO ₂ composite nanostructures .
35	<p>Mr. Sunil Prajapati C/o. Dr. Avinash Agarwal Department of Physics, Bareilly College, Bareilly (M. J. P. Rohilkhand University Bareilly) Pin Code-243005 Mobile: 8750987341 (Mr. Sunil) meet2sprajapati@gmail.com Mobile: 9359118621 (Dr. Agarwal) avibcb@gmail.com</p>	Study of some heavy ion induced reactions at pelletron energies.
36	<p>Mr. Mushtaq Ahmad Magray C/o. Dr. M. Ikram, Associate Professor, Department of Physics, National Institute Of Technology Hazratbal, Srinagar - 190006 Kashmir (J&K) Phone: 9697064560 (Mr. Magray) Mobile: 7006951393 mushtaqmagray87@gmail.com Phone: +91-8717000375, +91-9796773912 (Dr. Ikram) mohd_ikram1@rediffmail.com, ikram@nitsri.net</p>	Synthesis, characterization of some rare earth transition metal oxides and their Irradiation study.
37	<p>Mr. Sai Krishna E C/o. Prof. P. D. Sabale, Department of Ancient Indian History, Culture & Archaeology, Deccan College, P. G. R. I. (Deemed University), Pune-411006 Mobile: 7769980776 (Mr. Sai Krishna) sai.arch45@gmail.com Mobile: 09822418696 pandurang.sabale@dcpune.ac.in,</p>	Causes for the decline of Indus Valley civilization and displacement in the period of 2350 BC- 1500 BC and those impacts.

	sabalepd@yahoo.com	
38	<p>Ms. Devalina Sarmah C/o. Prof. Ashok Kumar, Department of Physics, Tezpur University, Napaam, Assam, Pin: 784028 Mobile: 8876453186 (Ms. Sarmah) deva_16@tezu.ernet.in Mobile: 09401620770 (Prof. Kumar) Phone: (03712)267008 (Extn. 5553), 267169(R) ask@tezu.ernet.in</p>	Synthesis and characterization of Transition Metal Polymer Dichalcogenides (TMDCs) and graphne based conducting nanocomposites for electrochemical supercapacitors and swift heavy ion irradiation effects.
39	<p>Mr. Gurupada Maity C/o. Dr. Shiv Poojan Patel Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya (A Central University), Koni, Bilaspur-495009 (C.G.) Mobile: 09144927126 (Mr. Maity) gurupada.phy@gmail.com Mobile: +91-9479246120 (Dr. Patel) shivpoojanbhola@gmail.com</p>	Ion beam assisted and thermally mediated recrystallization of amorphous semiconductors thin films.
40	<p>Mr. Navneet Kumar C/o. Prof. Fakir Chand, Department of Physics, Kurukshetra University, Kurukshetra, Haryana Pin Code- 136119 Mobile: 9467719492,9560562604 (Mr. Navneet Kumar) nkataria1312@gmail.com Mobile: 09466481420 (Dr. Chand) fchand@kuk.ac.in</p>	Investigation of surface/interface properties of gallium nitride and modification using passivation and irradiation techniques.
41	<p>Mr. Amit Kumar Chauhan C/o. Dr. Moumita Maiti, Assistant Professor , Department of Physics , Indian Institute of Technology, Roorkee , Roorkee-247667 (UK) Mobile: 9720065787 (Mr. Chauhan) amitkumarchauhan777@gmail.com Phone: 01332-285454 (O) moumifph@gmail.com</p>	Production of neutron deficient radionuclides of noble metals in low energy reaction.
42	<p>Ms. Monika Saini C/o. Prof. Rajni Shukla HOD, Department of Physics, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonapat, Pin Code: 131039</p>	Development of conducting polymers composites as advanced electromagnetic radiations shielding materials.

	<p>Mobile: 09813263228 (Ms. Saini) sainirk1407@gmail.com Mobile: 09896232083 rajnishukla3871@gmail.com</p>	
43	<p>Ms. Richa Sharma C/o. Dr. J. M. S. Rana Assistant Professor, Department of Physics, Hemwati Nandan Bahuguna Garhwal University, Uttrakhand, S. R. T. Campus Badshahithaul, Tehri Garhwal, Uttrakhand Mobile: 9627422291 (Ms. Sharma) sharmariccha05@gmail.com</p>	<p>Electrical transport and optical properties of pure and semi metal doped Zinc Oxide and their modifications by interaction of energetic ions.</p>
44	<p>Ms. Zara Aftab C/o. Prof. Lekha Nair, Department of Physics , Jamia Millia Islamia, Delhi-110025 Mobile: 8470027435 (Ms. Aftab) aftabzara8@gmail.com Mobile: 9810032194 (Prof. Nair) lnair@jmi.ac.in</p>	<p>Ion beam induced nanostructures from metal films.</p>
45	<p>Mrs. Ananya Das C/o. Dr. Abhijit Bisoi, Assistant Professor, Department of Physics, Indian Institute of Engineering Science and Technology(IIST) Shibpur, Shibpur, Howrah, Pin Code: 711103 Mobile: 09641211791 (Ms. Das) ananya93das@gmail.com Mobile: 09830629051 abhijitbisoi@gmail.com</p>	<p>Spectroscopic study in K isotopes: The sd-pf interface nuclei.</p>
46	<p>Mr. Akash Ashok Deshmukh C/o. Dr. U. A. Palikundwar, Assistant Professor, Department of Physics, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur Pin Code:440033 Mobile No.: 9175477696 (Mr. Deshmukh) akdeshmukh9@gmail.com Mobile: 9890155077 (Dr. Palikundwar) uapali@yahoo.com</p>	<p>Sudy of local structure of atoms in some metallic glasses of practical importance.</p>
47	<p>Ms. Rekha Yadav C/o. Dr. D. P. Goyal Dept. of Physics, Indira Gandhi University, Meerpur, Rewari (Haryana),</p>	<p>Ion beam effects on the physical properties of cupric oxide.</p>

	Mobile: 7027163032 (Ms. Yadav) rekhayadavp89@gmail.com	
48	Mr. Karra Vinod Kumar C/o. Prof. S. V. S. Nageswara Rao, School of Physics, University of Hyderabad, Hyderabad, Pin Code: 500046 Mobile: +91-9010865943 vinod05071992@gmail.com Contact No.: +914023134329/09441173473 (Prof. Rao) nageshphysics@gmail.com	Ion beam studies of Hafnium based high-k dielectric materials deposited on high mobility semiconductors for MOS device applications.
49	Ms. Chandni Devi C/o. Dr. Sandeep Kumar, Assistant Professor, Department of Physics, Central University of Rajasthan, Bandarsindri, Distt. Ajmer-305817 Mobile: 8894269286 (Ms. Devi) bhattchandni84@gmail.com Mobile: 8290686644 (Dr. Kumar) sandeep.kumar@curaj.ca.in	Ion beam synthesis of Mn Doped InAs nanostructures.
50	Ms. Muntazir Gull C/o. Prof. Isar Ahmad Rizvi Department of Physics, Aligarh Muslim University, Aligarh-202002 Mobile: 8439009779 (Mr. Gull) muntazirgull1@gmail.com Mobile: 8126032552 (Prof. Rizvi) isarrizvi@rediffmail.com	Study of nuclear reactions induced by heavy ions at intermediate energies.
51	Mr. Chinmay Dash C/o. Dr. Pitambar Pati Department of Earth Sciences, IIT Roorkee, Uttrakhand-247667 Mobile: 9410900321 (Mr. Dash) chinmay.ism@gmail.com Contact: 0132285237 (Dr. Pati) dash1des@iitr.ac.in	Holocene climate and paleogeographic reconstructions along Odisha coast.
52	Ms. Rajveer Kaur C/o. Dr. S. S. Ghuman, Associate Professor, Department of Physics, SLIET, Longowal-148106, Sangrur, Punjab, Pin Code: 148106 Mobile: 7347556319 (Ms. Kaur) rajsingla39@gmail.com	Swift heavy ion induced effects and temperature dependence in Cerium and yttrium doped zirconolites.

	Mobile: 9463330793 (Dr. Ghumman) s_ghumman@yahoo.com	
53	Mr. Rakesh Kumar C/o. Dr. Hardev Singh Department of Physics , Kurukshetra University, Kurukshetra- 136119, Haryana Mobile: 9896469108 (Mr. Kumar) mrkbhukal@gmail.com Mobile: 9815983782 (Dr.Singh) hardev79@gmail.com	To understand the dynamics of heavy ion induced Fusion- fission reactions.
54	Ms. Kavita C/o. Dr. Hardev Singh Department of Physics , Kurukshetra University, Kurukshetra- 136119, Haryana Mobile: 8901284429 (Ms. Kavita) rajputkavita59@gmail.com Mobile: 9815983782 (Dr. Singh) hardev79@gmail.com	Exploring the reaction dynamics in heavy Ion Induced Fusion-fission reactions.
55	Mr. Vivek Chopra C/o. Dr. Jai Gopal Sharma, Department of Biotechnology, Delhi Technological University-Delhi Pin Code: 110042 Mobile: 9911881342 (Mr. Vivek) choprav12@yahoo.com Dr. Sharma's email: sharmajaiigopal@yahoo.com	Algal Biodiversity based reconstruction of the past local and regional environmental conditions and tracing of landscape evolution of river Yamuna in Delhi region.
56	Dr. Archana Tiwari Assistant Professor in Physics, Department of Physics, Sikkim University (A Central University), Gangtok – 737102, Sikkim Phone: 03592232080 (O/R) Mobile: +919679241203 archana.tiwari.ox@gmail.com	Green synthesis of metal nanoparticles and their size modulation by swift heavy ion irradiation.
57	Dr. Rahul Singhal Assistant Professor , Department of Physics, Malaviya National Institute of Technology Jaipur , JLN Marg, Malviya Nagar Jaipur- 302017, Rajasthan Phone: 0141-2713553 (O) 0141-2713152 (R) Mobile: 09352992762, 09549654378 rahuliuac@gmail.com rsinghal.phy@mnit.ac.in	Ion Irradiation Induced growth of Cu nanoparticles in fullerene matrix.

58	<p>Dr. Devendrappa H Associate Professor, Mangalore University, Mangalore-574199 Karnataka Pin Code: 574199 Phone: 0824-2287363 (O) Mobile: 9845299774 dehu2010@gmail.com</p>	<p>Effect of swift heavy ion (SHI) irradiation on polymer composite for storage device applications.</p>
59	<p>Dr. Satyabrata Mohapatra Assistant Professor, University School of Basic and Applied Sciences, Guru Gobind Singh Indraprastha University, Sec-16 C, Dwarka, New Delhi- 110078 Phone: 01125302414 (O) 01125302959 (R) Mobile: 9910562090 smiuac@gmail.com</p>	<p>Study of effects of swift heavy ion irradiation on the structural, optical and photocatalytic properties of Ag-TiO₂ and Au-TiO₂ plasmonic nanocomposites.</p>
60	<p>Dr. Satyabrata Mohapatra Assistant Professor, University School of Basic and Applied Sciences, Guru Gobind Singh Indraprastha University, Sec-16 C, Dwarka, New Delhi- 110078 Phone: 01125302414 (O) 01125302959 (R) Mobile: 9910562090 smiuac@gmail.com</p>	<p>Study of effects of swift heavy ion irradiation on the structural, optical and gas sensing properties of SnO₂- ZnO and SnO₂- TiO₂ nanocomposites.</p>
61	<p>Prof. Ramphal Sharma, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad- 431004 Phone: 0240-2403384/85/284 (O) Mobile: +91-9422793173 Fax: +91-240-2403113 rps.phy@gmail.com</p>	<p>Effect of SHI irradiation on modification of structural and opto-electronic properties of basic heterojunction nanostructure Zn_{1-x}MgxS/Cu₂S thin film solar cell.</p>
62	<p>Prof. Vaishali Singh BFR - 303, University School of Basic & Applied Sciences (USBAS), Guru Gobind Singh Indraprastha University, Sector-16 C, Dwarka, New Delhi-110078</p>	<p>Structural and morphological modifications of transition metal dichalcogenides/ polymer nanocomposites upon SHI irradiation.</p>

63	<p>Dr. Dambarudhar Mohanta, Department of Physics, Associate Professor, Tezpur University, PO: Napaam, Tezpur, Assam, Pin Code: 784028 Phone: 3712-2675558 (O) Mobile: 88765-07550 Fax: 03712-267006 dmohanta1973@gmail.com</p>	<p>Studies on photocatalytic, photoluminescence and mechanical properties of WS₂/C-dot nanoscale systems subjected to irradiation.</p>
64	<p>Dr. R. T. Rajendrakumar Associate Professor, Department of Nanoscience and Technology, Bharathiar University, Coimbatore, Tamil Nadu, Pin Code: 641046 Phone: 04222428446 (O) 04222344780 (R) Mobile: +91-9789757888 rtrkumar@buc.edu.in</p>	<p>Swift heavy ion irradiation effects on the morphological, surface and interfacial properties of ZnO/ZnS and ZnO/NiO core/shell nanorod array.</p>
65	<p>Prof. G. N. Nayak Department of Marine Sciences, Goa University, Goa – 403 206 Phone: 0832-6519059 (O) Mobile: 09545693911/ 09822725032 Fax: 0832- 2451184 gnnayak@unigoa.ac. In, gnnayak57@gmail.com</p>	<p>Beryllium concentration, clay minerals and metals in sediments in reconstruction of paleo-climate.</p>
66	<p>Dr. Shiv Poojan Patel Assistant Professor, Department of Pure & Applied Physics, Guru Ghasidas Vishwavidyalaya (A Central University), Koni, Bilaspur (C.G.), Pin Code: 495009 Phone: 07752-260159 (O) Mobile: 09479246120 shivpoojanbhola@gmail.com</p>	<p>Tailoring the thermoelectric properties in SnTe nanocrystalline thin films using ion irradiations.</p>
67	<p>Prof. Shashi K. Dhiman Department of Physics ,Himachal Pradesh University, Shimla, Shimla-171005 Phone: 0177-2833739 (O) Mobile: 09459490400 shashi.dhiman@gmail.com</p>	<p>Investigation of Isomers and High-Spin states in ^{183,185}Ir isotopes.</p>

68	<p>Dr. Neeraj Panwar Assistant Professor, Department of Physics, Central University of Rajasthan, Bandarsindri, Ajmer, Pin Code: 305817 Phone: 1463-238588 (O) 07726031844 (R) Mobile: 07726031844 neerajpanwar@curaj.ac.in</p>	<p>Impact of ion irradiation on the exchange bias, magnetization reversal, spin reorientation and magnetocaloric effect in orthochromites.</p>
69	<p>Dr. M. Wasi Khan Associate Professor, Department of Physics, Aligarh Muslim University (AMU), Aligarh, Pin Code: 202002 Phone: 0571-2701001 Mobile: +91-9897532717 wasiamu@gmail.com</p>	<p>Tailoring the optical and photocatalytic performance of Cr substituted TiO₂ nanostructured thin films by SHI irradiation.</p>
70	<p>Dr. Varinderjit Singh Assistant Professor, Department of Physical Sciences, IKG Punjab Technical University, Kapurthala, Punjab, Pin Code: 144603 Phone: 09465884813 (O) 09914100789 (R) vickymangat3@gmail.com Mangat_phy@yahoo.co.in</p>	<p>Investigation of fusion enhancement for neutron-rich symmetric and asymmetric systems near and below the fusion barrier.</p>
71	<p>Prof. Mahendra D. Shirsat Professor and Director, RUSA – Center for Advanced Sensor Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) , Pin Code: 431004 Phone: (0)240 – 2403290 (O) (0)240 - 2371920 (R) Mobile: +91-9422291987 mdshirsat@gmail.com / mdshirsat.phy@bamu.ac.in</p>	<p>Field effect transistor based on swift heavy ion Irradiated Metal-Organic-Framework for sensing applications.</p>

72	<p>Prof. Mahendra D. Shirsat Professor and Director, RUSA – Center for Advanced Sensor Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) , Pin Code: 431004 Phone: (0)240 – 2403290 (O) (0)240 - 2371920 (R) Mobile: +91-9422291987 mdshirsat@gmail.com / mdshirsat.phy@bamu.ac.in</p>	Organic field effect transistors for detection of heavy metal ions.
73	<p>Dr. Anupinder Singh Assistant Professor, Department of Physics, Guru Nanak Dev University, Amritsar-143005 Phone: 0183-2258802/09-3346 (O) Mobile: 09988191852 Fax: 0183-2258819/20 anupinders@gmail.com</p>	Ion beam dosimetry of some tissue equivalent thermoluminescent phosphors.
74	<p>Dr. M. J. Keshvani Assistant Professor, Department of Physics, Marwadi University, Rajkot, Gujarat Pin Code: 360003 Phone: +91-9727778190 Mobile: +91-9374923806 Fax: +91-281-2331170 mjkeshvani3007@gmail.com</p>	Role of SHI irradiation in transport properties of manganite based p – n and n – n junctions.
75	<p>Prof. Alok Srivastava Department of Chemistry, Panjab University, Chandigarh-160014 Phone: 0172-2534424 (O) 0172-2722196(R) Mobile: +91-9417769774 Fax: 0172-2545074 alok@pu.ac.in</p>	Geogenic study of Uranium using ^{11}Be , ^{14}C , ^{26}Al and ^{36}Cl based Accelerator Mass Spectrometry.
76	<p>Dr. Basharat Wani Associate Professor, Department of Physics, University of Kashmir, Hazratbal, Srinagar, Jammu and Kashmir -190006 Phone: 0194-2421756 Mobile: 09419001037 bawant@kashmiruniversity.ac.in</p>	Effect of SHI irradiation on electric and magnetic properties of rare earth containing multiferroic composites.

77	<p>Prof. S. V. S. Nageswara Rao , School of Physics , University Of Hyderabad (UOH), Gachibowli, Hyderabad , Pin Code: 500046 Phone: 040-23134329 (O) 040-67062015 (R) Mobile: 09441173473 Fax: 04023010227 nageshphysics@gmail.com</p>	<p>Application of ion beams to study and engineer the resistive switching properties of transition metal oxides.</p>
78	<p>Dr. Davit B. Dhruv Assistant Professor Department of Nanotechnology, V.V.P. Engineering College, Gujarat Technological University, Rajkot, Gujarat (India) Pin Code: 360 005 Phone: +91-281-2783394 (O) Mobile: 91 – 9033981149 Fax: +91 – 281 – 2783487 mailmedav@gmail.com</p>	<p>Influence of Swift Heavy Ion Irradiation on poly(3-hexyl thiophene) and nanostructure TiO₂ composite based thin film for solar cell applications.</p>
79	<p>Prof. Sanjay J. Dhoble Department of Physics, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur-440033, Maharashtra Pin Code : 440033 Phone : 0712-2500083 (O) 0712-2251361, 0712-2250180 (R) Mobile : 09822710204</p>	<p>Effect of ion beam and photons on TLD phosphors for accidental and high dose radiation dosimetry.</p>
80	<p>Dr. Samarjit Sihotra Assistant Professor, Deptt. Of Physics, Panjab university, Chandigarh, Sec-14, Chandigarh-160014 Mobile: 9463576594 ssihotra@pu.ac.in</p>	<p>Multiparticle configurations in some proton rich Lu and Hf Nuclei.</p>
81	<p>Dr. Sunil Kumar Arora Associate Professor Centre for Nano Science & Nano Technology, Block-II, South Campus, Panjab University, Chandigarh, Pin Code: 160014 Phone: 07696265266 (O) 7696265266 (R) Mobile: 7696265266 Fax: 0172- 2783336 aroras@pu.ac.in</p>	<p>Influence of high energy heavy ion irradiation on the resistive switching behavior of epitaxial transition metal oxide hetero-structures.</p>

82	<p>Dr. Kanupriya Sachdev Associate Professor and Head, Materials Research Centre, MNIT Jaipur, JLN Marg, Malviya Nagar Jaipur, Pin Code: 302017 Phone: 9549657337 (O) Mobile: 9829128200 ksachdev.phy@mnit.ac.in, sachdevk67@gmail.com</p>	Irradiation studies on Mg Silicide based films for thermoelectric applications.
83	<p>Dr. Susanta Das UGC-Assistant Professor, Department of Physics, School of Physical and Chemical Sciences, Central University of South Bihar(CUSB), Gaya, Bihar, Pin Code: 823001 Mobile: 7319362311 susanta09das@gmail.com</p>	Interactions of ions with graphite.
84	<p>Dr. Suresh Kumar Assistant Professor and Rso , Department of Physics & Astrophysics , University of Delhi , Delhi -110007 Phone: 011-27667796, 7155 (O) 011- 27608044 (R) Mobile: 09599762352 sursvmk123@gmail.com</p>	Investigation of the High-Spin states in the A= 85 mass region using In-beam Gamma-ray Spectroscopy.
85	<p>Dr. Ranjeet Kumar Karn Asst. Professor University Dept. of Physics, Kolhan University, Chaibasa, Jharkhand, Pin Code: 833202 Mobile: 9631298090 rkkarn@gmail.com</p>	Beam-Foil spectroscopy of highly charged ions relevant to X-ray astronomy.
86	<p>Dr. Kamalendra Awasthi Assistant Professor, Department of Physics, Malaviya National Institute of Technology Jaipur-302017, Rajasthan Pin Code: 302017 Phone: 0141-2713441 (O) 0141-2713541 (R) Mobile: 9414406599 kawasthi.phy@mnit.ac.in</p>	Track etched polymeric membranes based nanostructures for hydrogen sensing.

87	<p>Prof. Karunakara. N. Centre For Advanced Research in Environmental Radioactivity (CARER), Mangalore University, Mangalagangothri-574199, Karnataka Phone: 0824-2287733 (O) 0824-2213052 (R) Mobile: 9980775012 Fax: 0824- 2287367 drkarunakara@gmail.com</p>	<p>Validation of liquid scintillation spectrometry based Carbon-14 (^{14}C) measurements techniques by AMS and development of reference materials for application in environmental monitoring programmes around nuclear power plants.</p>
88	<p>Dr. Azher Majid Siddiqui Assistant Professor, Department of Physics, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi-110025 Phone: 9868731473 (O) amsiddiqui@jmi.ac.in</p>	<p>Effects of swift heavy ion irradiation on conducting polymer-metal oxide nanocomposites and their device applications.</p>
89	<p>Dr. Yashpal Singh Katharria Assistant Professor, PDPM Indian Institute of Information Technology, Design & Manufacturing (IIITDM) Jabalpur, Dumna Airport Road, Khamaria, Jabalpur-482005, M.P. Phone: 0761-2794354 (O) Mobile: 8107591910 yashpalk@gmail.com</p>	<p>Radiation effects in Gallium Oxide.</p>
90	<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>Structural and transport studies of two dimensional surface electron gas of topological insulators by ion beam irradiation.</p>
91	<p>Dr. Jayant Kumar Tripathi, Associate Professor, Lab. No. 013/101, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi-110067 Phone: 011-26704311 (O) Mobile: +91-9717112227 jktrip@yahoo.com</p>	<p>Quantification of denudation rates using ^{10}Be in granitic landscapes spanning diverse climate regimes of northern India.</p>

92	Prof. Kunal B. Modi Department of Physics, Saurashtra University, Rajkot, Pin Code: 360005 Phone: 0281-2588428 (O) 0281-2577563 (R) Mobile: 09824536994 Fax: 02812576802 kunalbmodi2003@yahoo.com	Study on SHII induced modifications in nonlinear I-V characteristics of bulk and thin films of Fe ³⁺ - substituted CaCu ₃ Ti ₄ O ₁₂ cubic perovskites suitable for potential applications.
93	Dr. Asad Niazi Associate professor, Department of Physics, Jamia Millia Islamia, New Delhi-110025 Phone: 011-26984631 (O) aniazi@jmi.ac.in	The influence of point defects introduced by ion/ gamma irradiation in hybrid organic-inorganic perovskite (HOP) photovoltaic (PV) materials and HOP based PV devices.

BTR-5: LOW ENERGY ION BEAM FACILITY

S.No	PRINCIPAL INVESTIGATOR	TITLE OF THE PROJECT
1	Dr. P. N. Maya Visiting Scientist, ITER-india, Institute for Plasma Research, Bhat, Gandhinagar – 382428, Gujarat Phone: 079-23269715 (O) Mobile: +91-8238215027 pnmaya.n@gmail.com	Studies on deuterium trapping in presence of helium in ion irradiated tungsten.
2	Prof. Ashok Kumar, Department of Physics, Tezpur University, Napaam, Assam, Pin: 784028 Mobile: 09401620770 Phone: (03712)267008 (Extn. 5553), 267169(R) ask@tezu.ernet.in	Low energy ion irradiation effects on Transition Metal Dichalcogenides (TMDCs) and graphene based conducting polymer nanocomposites for electrochemical supercapacitors.
3	Dr. Shikha Wadhwa Assistant Professor, Amity Institute of Nanotechnology, Amity University, Uttar Pradesh, Pin Code: 201313 Mobile: 9711202698 swadhwa@amity.edu	Surface modification of Titania nanotube arrays using low energy ion beam in Nitrogen environment for photocatalytic and sensing applications.
4	Prof. Debnarayan Jana Department of Physics, University of Calcutta, 92, A.P.C. Road, Kolkata-700009 Phone: 91-33-2350-8396, Extn. 413 (O), 09830549937 (R) Mobile: 09830549937 djphy@caluniv.ac.in	Study of optical and electrical properties of Silver and Nitrogen implanted ZnO.

5	<p>Dr. Manju Bala Post-Doctorate Fellow Department of Physics and Astrophysics, University of Delhi, Delhi Pin Code: 110007 Mobile: 8745037342 manjubala474@gmail.com</p>	<p>Ion beam induced modifications in magnetic properties of FeCo thin films.</p>
6	<p>Dr. V. S. Vendamani National Postdoc Fellow (N-PDF) , Inter-University Accelerator Centre , Aruna Asaf Ali Marg , Near Vasanth Kunj , New Delhi -110067 Mobile: +91-8328393668 manishavsv@gmail.com</p>	<p>Ion beam assisted fabrication of metal nanoparticles embedded Si/TiO₂ composite nanostructures .</p>
7	<p>Dr. A. P. Srivastava Scientific Officer , Mechanical Metallurgy Division, Bhabha Atomic Research Centre, Trombay , Mumbai-400085 Phone: 02225590457 (O) Mobile: 9869528382</p>	<p>Irradiation study on nuclear reactor structural material .</p>
8	<p>Dr. Santosh Dubey Associate Professor, Department of Physics, University of Petroleum & Energy Studies, Bidholi, Via Premnagar, Dehradun, Uttarakhand, Pin Code: 248007 Mobile: 8052261535 santosh.dubey@ddn.upes.ac.in</p>	<p>Investigation of formation and stabilization of low resistance Ni-Si phase under ion irradiation.</p>
9	<p>Dr. Yashpal Singh Katharria Assistant Professor, PDPM Indian Institute of Information Technology, Design & Manufacturing Jabalpur, Dumna Airport Road, Khamaria, Jabalpur-482005, M.P. Phone: 0761-2794354 (O) Mobile: 8107591910 yashpalk@gmail.com</p>	<p>Study of ion implantation in gallium oxide.</p>
10	<p>Dr. C. Shivakumara Principal Research Scientist , Solid state and Structural Chemistry Unit, Indian Institute of Science, Bangalore, Pin Code: 560012 Phone: 08022932951 (O) Mobile: 9448480684 shiva@sscu.iisc.ernet.in</p>	<p>Effect of Ion beam irradiation on Bismuth-Oxy halides for enhanced photocatalytic activity.</p>

11	<p>Dr. (Ms.) Compesh Pannu Research Associate , Indian Institute of Technology Delhi</p> <p>Mailing Address: C/o Prof. Santanu Ghosh, Department of Physics, Indian Institute of Technology Delhi, Hauz Khas, New Delhi -110016 Phone: +91-11-26591348 (O) Mobile: 8860995372 compesh@gmail.com</p>	Investigation of metal concentration dependent field emission studies of ion beam irradiated FeCo-silica nanocomposite thin films.
12	<p>Dr. Sarvesh Kumar Scientist, IUAC, Post Box 10502, Aruna Asaf Ali Marg, IUAC, New Delhi- 110067 Phone: 9910955649 Mobile: 9910955649 sariuac@gmail.com</p>	Beam current oscillations in Nanogan ECR ion source driven by Plasma instabilities.
13	<p>Mr. Inderjeet Singh C/o. Dr. Balaji Birajdar Assistant Professor, Special Centre for Nanosciences, Jawaharlal Nehru University, New Delhi- 110067 Mobile.: 9968431462 (Mr. Singh) lathaphysics69@gmail.com Mobile: 9560479952 (Dr. Birajdar) birajdar@mail.jnu.ac.in</p>	Synthesis, characterization and application of doped TiO ₂ nano- powder and thin films.
14	<p>Mr. Joshua Asirvatham C/o. Dr. Alope Kanjilal, Associate Professor, Department of Physics, Shiv Nadar University, Greater Noida, Tehsil Dadri, Gautam Buddha Nagar, U.P. Pin Code: 201314 Mobile: 9965436683 (Mr. Asirvatham) joshuaasirvatham@gmail.com Mobile: 9958840640 (Dr. Kanjilal) aloke.kanjilal@snu.edu.in</p>	To study the effect of Ge doping using the ion beam implantation technique in GaSb thin films for phase change memory applications.
15	<p>Ms. Monika Saini C/o. Prof. Rajni Shukla HOD, Department of Physics, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonapat, Pin Code: 131039 Mobile: 09813263228 (Ms. Saini) sainirk1407@gmail.com Mobile: 09896232083 rajnishukla3871@gmail.com</p>	Development of conducting polymers composites as advanced electromagnetic radiations shielding materials.

16	<p>Ms. Zara Aftab C/o. Prof. Lekha Nair, Department of Physics , Jamia Millia Islamia, Delhi-110025 Mobile: 8470027435 (Ms. Aftab) aftabzara8@gmail.com Mobile: 9810032194 (Prof. Nair) lnair@jmi.ac.in</p>	Ion beam induced nanostructures from metal films.
17	<p>Dr. S. Krishnaveni Assistant professor, DOS in Physics, University of Mysore, Manasagangotri, Mysuru-06 Pin Code: 570006 Mobile: 09844023568 sk@physics.uni-mysore.ac.in</p>	Studies on ion beams induced defects in GaN Schottky Interface.
18	<p>Mr. Mushtaq Ahmad Magray C/o. Dr. M. Ikram, Associate Professor, Department of Physics, National Institute Of Technology Hazratbal, Srinagar - 190006 Kashmir (J&K) Phone: 9697064560 (Mr. Magray) Mobile: 7006951393 mushtaqmagray87@gmail.com Phone: +91-8717000375, +91-9796773912 (Dr. Ikram) mohd_ikram1@rediffmail.com, ikram@nitsri.net</p>	Synthesis, characterization of some rare earth transition metal oxides and their Irradiation study.
19	<p>Mr. Gurupada Maity C/o. Dr. Shiv Poojan Patel Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya (A Central University), Koni, Bilaspur-495009 (C.G.) Mobile: 09144927126 (Mr. Maity) gurupada.phy@gmail.com Mobile: +91-9479246120 (Dr. Patel) shivpoojanbhola@gmail.com</p>	Ion beam assisted and thermally mediated recrystallization of amorphous semiconductors thin films.
20	<p>Ms. Richa Sharma C/o. Dr. J. M. S. Rana Assistant Professor, Department of Physics, Hemwati Nandan Bahuguna Garhwal University, Uttrakhand, S. R. T. Campus Badshahithaul, Tehri Garhwal, Uttrakhand Mobile: 9627422291 (Ms. Sharma) sharmariccha05@gmail.com</p>	Electrical transport and optical properties of pure and semi metal doped Zinc Oxide and their modifications by interaction of energetic ions.

21	<p>Mr. Akash Ashok Deshmukh C/o. Dr. U. A. Palikundwar, Assistant Professor, Department of Physics, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur Pin Code:440033 Mobile No.: 9175477696 (Mr. Deshmukh) akdeshmukh9@gmail.com Mobile: 9890155077 (Dr. Palikundwar) uapali@yahoo.com</p>	<p>Sudy of local structure of atoms in some metallic glasses of practical importance.</p>
22	<p>Ms. Rekha Yadav C/o. Dr. D. P. Goyal Dept. of Physics, Indira Gandhi University, Meerpur, Rewari (Haryana), Mobile: 7027163032 (Ms. Yadav) rekhayadavp89@gmail.com</p>	<p>Ion beam effects on the physical properties of cupric oxide.</p>
23	<p>Dr. Basharat Want Associate Professor, Department of Physics, University of Kashmir, Hazratbal, Srinagar, Jammu and Kashmir -190006 Phone: 0194-2421756 Mobile: 09419001037 bawant@kashmiruniversity.ac.in</p>	<p>Effect of SHI irradiation on electric and magnetic properties of rare earth containing multiferroic composites.</p>
24	<p>Dr. Davit B. Dhruv Assistant Professor Department of Nanotechnology, V.V.P. Engineering College, Gujarat Technological University, Rajkot, Gujarat (India) Pin Code: 360 005 Phone: +91–281–2783394 (O) Mobile: 91 – 9033981149 Fax: +91 – 281 – 2783487 mailmedav@gmail.com</p>	<p>Influence of Swift Heavy Ion Irradiation on poly(3-hexyl thiophene) and nanostructure TiO₂ composite based thin film for solar cell applications.</p>
25	<p>Dr. Kanupriya Sachdev Associate Professor and Head, Meterials Research Centre, MNIT Jaipur, JLN Marg, Malviya Nagar J Mobile: 9829128200 ksachdev.phy@mnit.ac.in, sachdevk67@gmail.com</p>	<p>Irradiation studies on Mg Silicide based films for thermoelectric applications.</p>

26	<p>Prof. Kunal B. Modi Department of Physics, Saurashtra University, Rajkot, Pin Code: 360005 Phone: 0281-2588428 (O) Mobile: 09824536994 Fax: 02812576802</p>	<p>Study on SHII induced modifications in nonlinear I-V characteristics of bulk and thin films of Fe³⁺ - substituted CaCu₃Ti₄O₁₂ cubic perovskites suitable for potential applications.</p>
27	<p>Dr. Asad Niazi Associate professor, Department of Physics, Jamia Millia Islamia, New Delhi-110025 Phone: 011-26984631 (O) aniazi@jmi.ac.in</p>	<p>The influence of point defects introduced by ion/ gamma irradiation in hybrid organic-inorganic perovskite (HOP) photovoltaic (PV) materials and HOP based PV devices.</p>
28	<p>Dr. Aman Mahajan Department of Physics, Guru Nanak Dev University, Amritsar, Punjab- 143005 Phone: 0183-2258802-09 (Ext. 3344) Mobile: 09417932547 aman.phy@gndu.ac.in, dramanmahajan@yahoo.co.in</p>	<p>Fabrication of plasmonic dye sensitized solar cell using ion beam engineered photo anodes.</p>
29	<p>Mr. Vijay Kumar C/o. Dr. Dharmvir Singh, Department of Physics, Chaudhary Devi Lal University Sirsa, Haryana, Pin Code: 125055 Mobile: 9991116431 vijayphysics48@gmail.com Contact: 01666233093 Dahlawat66@gmail.com</p>	<p>Ion beam induced modifications on various physical properties of Rare Earth doped iron oxide thin films.</p>