

**SUMMARY OF BEAM TIME & PROJECTS SANCTIONED DURING  
ACCELERATOR USERS COMMITTEE (AUC-54) MEETING**

<b>S.NO.</b>	<b>PI Name Affiliation</b>	<b>Title</b>
1	Dr. D.B. Gadkari Reader HOD Physics, Vice Principal Mithibai Collage, Mumbai University, Vile Parle (W), Mumbai – 400 056	Fabricatin of p-n junction diode by doping p-type impurity in n-type indium antimonide nitride/Indium antimonide bismide.
2	Mr. Ambesh Dixit Indian Institutes of Technology, Jodhpur, Old Residency Road Ratanada, Rajasthan – 342 011	Fabrication of metallic Zn clusters in metal rich ZnO thin film matrix using swift heavy ion (SHI) beams and their impact on optoelectronic and spintronic properties
3	Dr. Prabha Sana Maulana Azad National Institute of Technology, Near mata mandir Post Bhopal Bhopal MP – 462 051	In Situ measurements of Quantum dots based heterojunctions photo devices under swift heavy ions irradiation.
4	Dr. Mahesh Kumar Assistant Professor , Indian Institute of Technology, Room No. 3103 Admin Block,Old Residency Road Ratanada Jodhpur, Rajasthan – 342 011	Ion beam induced modifications in structural, magnetic and transport properties of transition metal elements doped ZnO thin films.
5	Mr. H.G.Berry Professor of Physics, Univeristy of Notre Dame,	Tungsten Ion Spectroscopy for ITER project
6	Dr. Anindya Sarkar Assitant Professor in Physics Bangabasi Morning College (Under University of Calcutta) 19, Rajkumar Chakraborty sarani, Kolkatta – 700009	Defect Identification in ion irradiated ZnO
7	Dr. R.Thangavel Assistant Professor, Department of Applied Physics India School of Mines, Dhanbad – 826 004	Swift heavy ion irradiation-induced modifications in structural, Optical, electrical properties of Cu <sub>2</sub> S and Cu <sub>2</sub> O nanocrystalline thin films
8	Dr. S.K.Tandel Reader “F” UM-DAC Centre for Excellence in Basic Sciences, Health Centre Building, Vidyanagari, Kalina, Santacrua(East) Mumbai – 400098	High spin excitations and K isomer in <sup>134</sup> Sm
9	Dr. Mriganka Mandal Research Associate, IUAC, Aruna Asaf Ali Marg, New Delhi – 110067	Study on synergistic effects of and rographolide and carbon in beam irradiation on human melanoma cell proliferation and apoptosis
10	Ms. Aseem Mishra	Nano-engineering surfaces for

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	International Centre for Genetic Engineering and Biotechnology, Aruna Asaf Ali marg, New Delhi-110067	enhanced mammalian cell adhesion
11	Dr. Varinderjit Singh Centre for Physical and mathematical Sciences, Cetral University of Punjab, Bathinda-151001	To study the effect of shell closure on fission dynamics
12	Dr. C.P. Safvan Scientist F Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi – 110067	Search for negatively charged ions (Namely N <sub>2</sub> H and SigH)
13	Dr. Satyabrata Mohapatra Assistant Professor Guru Gobind Singh Indraprastha University, School of Basic and Applied Science, Sec-16c, Dwarka, New Delhi-110078	Synthesis and ion beam engineering of noble metal-ZnO plasmonic nanocomposites for photocatalytic applications
14	Ms. Indu Bala Scientist-C Inter-University Accelerator Centre, Aruna asaf Ali Marg, New Delhi-110067	Search for Octupole Collecctivity in Gd-isotopes
15	Mr. Ajay Y. Deo Department of Physics, Indian Institute of Technology, Roorkee, Utrakhand -247667	Spectroscopy around doubly magic <sup>208</sup> PB nucleus
16	Dr. Richa Krishna Amity Institute of Naotechnology, J2 Third floor, Amity University, Sector 125 Noida -201313	To study the effect of Transition Metal ion Irratiation on Al doped ZnO Films
17	Dr. Udai P Singh KIIT University, School of Electronics Engineering, Campus 3, Patia, Bhubneshwar- 751024	Effect of Swift Heavy ion irradiation on doped and co-doped ZnO for gas sensing application using schottky diode
18	Dr. Hiroshi Amekura Chief Researcher, national Institute for materials Science, 3-13 Sakura, Tsukuba, Ibaraki – 305-0003 japan	Irradiation temperature dependence of elongation of metal nanoparticles induced by swift heavy ions
19	Prof. M. Jagannadha Rao Director Delta Studies Institute, Andhra University, Visakhapatnam – 530017	Measurement of <sup>10</sup> Be from Krishna Delta (AP, India) drill core sediments and implications for geochronology
20	Mr. Jnanendra Upadhyay C/o Prof. Ashok Kumar, Tezpur University, Assam – 784 028	Synthesis and characterization of conducting polymer nanostructures for biological applications and study of swift heavy ion irradiation effects.
21	Mr. Anup Kumar Nath	Ionic Transport Studies in Ionic

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	C/o Prof. Ashok Kumar, Department of Physics, Tezpur University Napaam, Tezpur – 784 028 Assam	Liquid Polymer Nanocomposite Electrolytes and Swift Heavy Ion Irradiation Effects
22	Mr. Nazir Ahmad Kumar C/o M.M.Ahmad Department of Physics, National Institute of Technology, Hazratbal Srinagar	Growth, characterization of some metal doped tartrate single crystals and their pre and post irradiations study
23	Mr. Nagendra Shiwakoti C/o Dr. Bobby K Antony, Indian School of Mines, Dhanbad Jharkhand – 826 004	Fabrication and modification of Schottky diodes
24	Mr. Mohd. Faiyaz C/o Dr. Faiyazur Rahman Aligarh Muslim University, Aligarh – 202 002	Swift Heavy Ion irradiation induced modifications of Structural, Optical and transport Properties of doped nanocrystalline Indium oxide thin films
25	Mr. Subodh Kumar Gautam C/o Fouran Singh Material Science Group, Inter-University Accelerator Centre, new Delhi – 110067	Development of metal-semiconductor nanocomposites and their modifications by energetic ions for optoelectronic and solar cell.
26	Mr. Siddarth Rai C/o Dr. Buddhadev Mukherjee Siksha-Bhavana, Visva-Bharati, Santiniketan – 731235	Gamma spectroscopic study in A~60 mass region
27	Ms. Anuradha Verma C/o Dr. Sahab Dass Department of Chemistry Dayalbagh Educational Institutes, Dayalbagh, Agra – 282005	Study on the effect of ion irradiation on metal oxide thin films coated/embedded with noble metal nanoparticles for photoelectrochemical splitting of water for hydrogen production.
28	Mr. Gokul.B C/o Dr. R.Sathyamoorthy, Associate Professor and head, Kongunadu Arts and Science College, Coimbatore-641029	Tuning Exchange Bias Coupling and Coercivity of $\text{CoFe}_2\text{O}_4$ / $\text{NiO}$ nanocrystalline bilayer thin films by in beam irradiation.
29	Ms. Renuka Chauhan C/o Dr. R.C.Srivastava Professor and head G.B. Pant University of Ag. & Tech, Pantnagar, Uttrakhand – 263145.	Swift heavy Ion irradiation Induced Effects in some Multiferroic Nanocomposites and its thin films
30	Mr. Chandan Kumar Gupta C/o Dr. Sanjay Kumar Chamoli Department of Physics and Astrophysics, University of Delhi, Delhi – 110007	Study of structural phenomena in transitional nuclei with mass A~100

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31	Ms. Smita Laxman Survase C/o Dr. Madhavi Anant Thakurdesai, Department of Physics, Birla College of Arts, Science and Commerce, Kalyan University of Mumbai-400077	Synthesis of CdTe and CdZnTe thin films by athermal and isothermal annealing processes
32	Mr. Divyanshu Bhatnagar C/o Prof. Ratnamala Chatterjee MS-551, Department of Physics, Indian Institute of Technology Hauz Khas, new Delhi- 110016	Swift Heavy Ions induced modifications in YbO <sub>3</sub> , Sr <sub>2</sub> IrCoO <sub>6</sub> and LaPtBi thin films
33	Ms. Parul Jain C/o Prof. Ratnamala Chatterjee MS-551, Department of Physics, Indian Institute of Technology Hauz Khas, new Delhi- 110016	Topological, thermomagnetic and galvanomagnetic properties of magnetic and nonmagnetic ion doped exfoliated Bismuth Chalcogenide single crystals
34	Ms. Shamlath A C/o Dr. E.Prasad Department of Physics, School of Mathematical & Physical Sciences, Central University of Kerala, Padnekked P.O. Kerala- 671328	Investigating the dynamics of heavy ion induced fusion-fission reactions at energies near and above the coulomb barrier
35	Ms. Manju Sharma C/o Dr. Subhash . C .Kashyap Department of Physics, Indian Institute of Technology, New Delhi- 110016	Magnetic and Microwave properties of Pristine and Doped Barium Hexaferrites
36	Mr. Anirban Pradhan C/o Dr. Sanjit Dey, AT/P.O. - University of Calcutta, Kashimpur, District Paschim Medinipur, WB – 721 451	Radioprotective mechanisms by phytochemicals on cellular systems against High and Low LET radiation.
37	Ms. Naina Gautam C/o Prof. Avinashi Kapoor Department of electronic Science, University of Delhi South Campus, New Delhi – 110021	Swift heavy-ion irradiations induced modifications of Cadmium zinc oxide based nanocomposites and their hybrid solar cells
38	Mr. Angshuman Biswas C/o Dr. Subrata Kumar Dey School of Biotechnology & Biological science, West Bengal University of Technology, BF- 142, Sector-1, Salt Lake, Kolkatta – 700064	Investigation on the effects of Ionizing radiations and environmental & Pharmaceutical Agents on Human Stem Cells
39	Mr. U. Devarajan C/o Dr. S. Arumugam Department of School of Physics, Bharathidasan University, Tiruchirappalli- 620 024	Structural, Transport and Magnetic properties of Ni-Mn based Heusler alloys and Heavy Fermion alloys under high pressure, low Temperature and irradiation effect.
40	Ms. Ruchi Mahajan C/o Dr. B.R.Behera Assistant Professor of Experimental Nuclear Physics, Panjab University, Chandigarh.	Study of Fission Dynamics at NAND Facility

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41	Mr. Kamal Kumar C/o Dr. I.A. Rizvi Aligarh Muslim University, Aligarh -202002	Study of some Fusion Reactions induced by Heavy ions at Intermediate Energies
42	Mr. Gaurav Sharma C/o Dr. Nitin Kumar Puri Department of Applied Physics Delhi Technological University	Study of Circular Rydberg States
43	Ms. Khushboo C/o Dr. Samit Kumar Mandal Department of Physics and Astrophysics, University of Delhi – 110007	Investigation of few nucleons transfer reactions in medium mass nuclei around the Coulomb barrier.
44	Mr. Naveen Kumar C/o Dr. Suresh Kumar, Department of Physics & Astrophysics, University of Delhi, Delhi – 110007 Tel:- 011-27667793	Nuclear Structure of Transitional Nuclei
45	Ms. Sonu Devi C/o Dr. D.Kabiraj Scientist G Inter University Accelerator centre, Aruna Asaf Ali Marg, New Delhi – 110067	Ion Beam Induced damage evolution in Semiconductors
46	Mr. Manikanthabau Nethala C/o Dr. S.V.S. Nageswara Rao School of Physics University of Hyderabad Hyderabad - 500046	Ion beam studies of Hafnium based high-k dielectric materials for metal oxide semiconductor device applications
47	Mr. Vipin Kumar C/o Dr. S.S. Ghuman Department of Applied Physics, Sant Longowal Institute of Engineering and Technology, Longowal, sangrur, Punjab – 148106	Comparative Studies of electric field gradients of some rare-earth elements by <sup>133</sup> Cs perturbed angular correlations
48	Mr. Arvind Kumar C/o Dr. Kuldeep Kumar Sharma, Department of Physics, NIT Hamirpur- 177001	Effect of swift heavy ion irradiation on magneto-transport properties of Multilayers of CMR/high -T <sub>c</sub> superconductors/CMR thin films
49	Mr. Saikat Chakraborty C/o Dr. H. P. Sharma Department of Physics Banaras Hindu University Varanasi, Uttar Pradesh – 221005	Structure of h <sub>11/2</sub> bands in 125,127I
50	Dr. Balbir Singh Kaith Department of Chemistry, Dr. B R Ambedkar National Institutes of Technology, Jalandhar – 144 011	Y- Radiation Induced Synthesis of Drug Delivery Devices and impact of Swift Heavy Ion Bombardment on the Sustained Drug Release Behaviour

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51	Dr. Rahul Singhal Department of Physics MNIT Jaipur JLN Marg, Malviya Nagar, Jaipur-302017 (Raj)	Tailoring the structural, electrical and optical properties of Ag-ZnO and Ag-TiO <sub>2</sub> nano-composite thin films for various applications using energetic ions.
52	Dr. Ramphal Sharma Associate Professor Dr. Babasaheb Ambedkar marathwada University, Aurangabad - 431004	Effect of SHI ions on structural and opto-electronic properties of plasmonic Ag nanoparticles doped CdS <sub>1-x</sub> Se <sub>x</sub> /Cu <sub>2</sub> S for photovoltaic.s
53	Dr. S.J.Dhoble Associate Professor Department of Physics, RTM Nagpur University, Nagpur-440033	Thermoluminescence characterization of lithium based TLD materials by using swift ions and photons
54	Dr. Bivesh Ranjan Behera Department of Physics Centre for advanced Studies in Physics Panjab University, Chandigarh	Mapping the Evaporation Residue Cross Sections for shell Closed Nuclei (Extra Push Versus Shell Closure)
55	Prof. P.D.Sahare Department of Physics & Astrophysics, University of Delhi Delhi – 110007	Modifications by swift heavy ion (SHI) beam in wide band gap semiconductor nanoparticles for its applications as multifunctional materials
56	Dr. P.K.Bajpai Professor & Head, Department of Pure & Applied Physics, Guru Ghasidas Vishwavidyalaya(A Central University), Koni Bilaspur -495009	Studies of Swift Heavy Ion Beam Irradiation on ceramic perovskites thin films of BaSnO <sub>3</sub> , SrSnO <sub>3</sub> and Ba/SrSnO <sub>3</sub> for specific Gas Sensing Applications
57	Dr. Rajesh Kumar Assistant Professor, PG department of Physics, JCDAV College Dasuya, Punjab University Chandigarh	Octupole Correlation and lifetime measurements in A~120 mass region.
58	Dr. Rajshree B. Jotania Department of Physics, school of Science, Gujarat University – 380009	SHI induced modifications in ferrites and ferrite-polymer composites
59	Dr. Anil Kumar Professor & Head, Department of Physics, Jai Prakash Vishwavidyalaya, Rahul Sankrityayan nagar Chapra – 841 302 Bihar.	Beam Foil spectroscopy of highly charged 3d elements (Atomic Spectroscopy of Iron Group Elements of Astrophysical Importance )
60	Dr. Samarjit Sihotra Department of Physics, Panjab University, Chandigarh – 160014	Nuclear Structure studies in some Ag, Rh, and Pd isotopes close to N=Z=50 shell closure.
61	Dr. Pawan Kumar Tyagi Department of Physics, Delhi Technological Universtiy, Shahabad, Daulatpur, Bawana Road, Delhi -110046	Ion implantation in Nanocrystalline, Ultrananocrystalline diamond film and carbon nanotubes

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62	Prof. Gulzar Singh Department of Physics, Panjab University, Sec-14, Chandigarh – 160014	Systematics of Multi-step Compound pre-equilibrium emission of neutrons from symmetric light-heavy ion collisions at low projectile energies Elab~4-7MeV/A
63	Dr. Dinesh K Kanchan The M.S. University of Baroda, Vadodara,(Guj)-390002	The Role of Ion Beam Irradiation in Sodium Salt Based Polymer Nanocomposite Electrolytes for Battery Applications
64	Dr. Hardev Singh Department of Physics, Kurukshetra University, Kurukshetra, Haryana -136119	Exploring the reaction processes in heavy-ion induced fusion-fission reactions
65	Dr. Dharmendra Singh Assistant Professor Central University of Jharkhand, Ranchi – 835205, Jharkhand	Role of Target Deformation on Incomplete Fusion dynamics during heavy ion collisions
66	Dr. Siddhartha Sankar Nath Assam University, Silchar – 788 011	SHI Irradiated II-VI semiconductor quantum dots and their applications as new light emitting device
67	Prof. M.R. Anantharaman Department of Physics Cochin University of Science and Technology, Kerala	Tailoring magnetic characteristics and possible patterning of Fe-Ni alloy thin films using SHI
68	DR. Pralay Maiti Professor and Coordinator School of material science and technology, IIT-BHU, Varanasi-UP-221005	Porous polymeric materials using swift heavy ions
69	Dr. Ratnesh Gupta School of Instrumentation Devi Ahilya University, Indore	To Study shape transformation of nanoparticles induced by swift heavy ions
70	Dr. Gopal Mukerjee Variable Energy Cyclotron Centre, 1/AF Bidhan Nagar, Kolkata – 700064	Proton and neutron level structures above Z=82: search of Isomers in Bi isotopes

