

**SUMMARY OF BEAM TIME & PROJECTS SANCTIONED DURING  
ACCELERATOR USERS COMMITTEE (AUC-55) MEETING**

S.No.	PI Name Affiliation	Title
1	Dr. Amit Kumar INSPIRE Faculty (DST), School Materials Science and Technology, Indian Institutes of Technology (BHU), Varanasi – 221005	Fullerence based spin valve devices and tailor their electrical/magnetic properties by ion irradiation.
2	Dr. Sanjay D Dhole University of Pune, Department of Physics, maharashtra – 411007	Tailoring of magnetic properties of Polycarbonate by Fe <sup>+</sup> ion implantation
3	Dr. Arti Gupta DST-Inspire Faculty Fellow , Department of Physics, Room No. 183, Multistoryed Building, University of Delhi Delhi – 110007	Maynetoelectric Studies on Co Ni implanted BaTio3 single crystals
4	Dr. S.P.Tripathy Scientific Officer (D) Bhabha Atomic Research Centre, Health Physics Division, Modlab-I-236H, Trombay, Mumbai – 400 085	Measurement of Let (Linear Energy Transfer) spectra using CR-39 detectors for BNCT (Boron Neutron Capture Therapy) and neutron dosimetric applications
5	Prof. R. Dhanasekaran Pfoessor of Eminence, Crystl Growth Centre, Anna University, Chennai Tamil Nadu – 600025	Influence of SHI irradiation on relaxor property of NBT-BT ceramics
6	Mr. P. Kannappan Crystl Growth Centre, Anna University, Chennai Tamil Nadu – 600025	Investigations of swift heavy in (SHI) irradiation on CVT grown ZnSe, ZnS <sub>x</sub> Se <sub>1-x</sub> and ZnTe single Crystals
7	Dr. Subir Nath IUAC, Aruna Asaf Ali Marg, New Delhi – 110067	Role of isospin mixing in gamma-decay in lighter mass region.
8	Dr. Sarmishtha Bhattacharyya Variable Energy Cyclotron Centre, 1/AF Bidhan Naga, Kolkatta – 700064	High spin isomer study of <sup>207</sup> Rn
9	Dr. M. Kumar Raju Research Associate Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi – 110067	Search for Octupole Collectivity in <sup>219</sup> Th

S.No.	PI Name Affiliation	Title
10	Dr. Prakash Manohar Raole Scientist-SF and Head FRMDC Division Institute for Plasma Research, Gandhinagar – 382044	Hydrogen and heavy ion implantation in Tungsten and its alloys for the study of microstructural evolution and its correlation to the fusion relevant transport properties of Hydrogen/Deuterium.
11	Dr. Rahbar Ali Department of Physics, G.F.(PG) College, Shahjahanpur – 242001	Disentangling the incomplete fusion dynamics in heavy ion induced reaction at energies 3-8 MeV/A
12	Dr. Sunil Kalkal Assitant Professor, Central University of Punjab, Mansa Road, City Campus Bathinda – 151001	Fusion and multi-nucleon transfer reactinos for 28Si+76Ge and 30Si+74Ge around the Coulomb barrier.
13	Dr. Anagha Chakraborty Assistant Professor, Department of Physics, Krishnath College, P.O. Berhampore, Distt Murshidabad west bangal – 742101	Investigation of Vibrational Like High Spin Structure in $^{45}\text{Ti}$
14	Dr. S.S.Ghugre Scientist-G, UGC-DAE Consortium for Scientific Research, LB-8 Sector-III Bidhannagar Kolkatta – 700098	Nuclear Structure Studies of $^{64}\text{Cu}$
15	Dr. R. Dhanasekaran Crystal Growth Cetnre, Anna University, Chennai – 600025	Enhancement of afterglow of borate based phoshors with swift heavy ion irradiation for long lasting phosphorescence
16	Dr. Ashish Kumar Research Associated, IUAC, New Delhi – 110067	Study of defects in GaN caused by swift heavy ion irradiation using in-situ DLTS and optical characterization (PL, RAMAN)
17	Dr. Pawan Kumar Research Associate Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi – 110067	Electrical, magnetic and thermopower characterization of swift heavy ion irradiated $\text{La}_{0.225}\text{Pr}_{0.40}\text{Ca}_{0.375}\text{MnO}_3$ thin films
18	Dr. Rakesh Kumar Dwivedi Associate Professor, Jaypee Institute of Information Technology, A-10, Sector-62, Noida-201307	Effect of swift heavy ion on microstructure, dielectric, ferroelectric and electronic properties of Sm doped bismuth ferrite.

S.No.	PI Name Affiliation	Title
19	Dr. Sanjay Kumar Chamoli Assistant Professor University of Delhi, Department of Physics & Astrophysics, Delhi – 110007	High Spin Gamma Ray spectroscopy and lifetime measurement in <sup>113</sup> In
20	Dr. Sanjay Kumar Chamoli Department of Physics & Astrophysics University of Delhi (North Campus)	Search for TSD/Wobbling excitation modes in nuclei with A~160
21	Mr. Shushant Kumar Singh C/o Dr. Rahul Singhal Department of Physics Malaniya National Institute of Technology (MNIT) Jaipur	Ion beam irradiation Induced modifications of structural properties of metal-carbon nanocomposite thin films
22	Mr. Shareef M C/o Dr. E.Prasad, Department of Physics, School of mathematical and physical science, Central University of Karela, Padanakad (P.O), Kasaragod, Kerala – 671328	Exploring heavy-ion fussion-fission dynamics around Coulomb barrier using Neutron multiplicity measurements
23	Mr. Tanmoy Roy C/o Dr. Gopal Mukherjee, Scientific Officer (E), Physics Group VECC, Homi Bhabha Natinoal Institute, 1/AF Bidhan Nagar, Kolkatta - 700064	Study of high spin states and isomers in nuclei near Z=82
24	Mr. Avinash Chand Yadav C/o Prof. Avinash Chandra Pandey Nanotechnology Application Centre, Science Faculty, University of Allahabad, Allahabad – 211 002	Swift heavy Ions Induced Modifications of Organic Molecular Films*
25	Mr. Abhirup Chaudhuri C/o Dr. Tilak Kumar Ghosh Varaiable Energy Cyclotron Centre, 1/AF, Bidhnnagar, Kolkatta – 700 064	Dynamics of fusion-fission reactions near the Coulomb barrier
26	Mr. Rajesh KK C/o Dr. M.M.Musthafa Department of Physics, University of Calicut	Analysis of Nuclear Reactins Induced by Heavy Ions in the Mass Region A200

\* An Exploratory run or only single beam time has been sanctioned.

S.No.	PI Name Affiliation	Title
27	Mr. Sabhir Ahmad Kumar C/o Prof. Mohd. Zulfequar Department of Physics, Jamia Millia Islamia (A Central University) New Delhi – 110025	Effect of Laser and Swift Heavy Ions Irradiation on Compound Semiconductors*
28	Mr. Shivaramu.N.J C/o Dr. B.N.Lakshminarasappa Department of Physics, Bangalore University, Bangalore – 560056, Karnataka	Ionoluminescence studies of nanocrystalline oxides
29	Ms. Manju Bala C/o Dr. K.Asokan Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi – 110067	Synthesis and Characterization of thermoelectric materials by Ion beam mixing
30	Mr. Tathagata Banerjee C/o Dr. P.Sugnthan Inter university accelerator Centre, Aruna Asaf Ali Marg, New Delhi – 110067	Systematic study of $P_{CN}$ in the pre-actinides
31	Ms. Deepawali Arora C/o Dr. D.P.Singh Department of Physics, GNDU, Amritsar	Investigations of SHI irradiation induced effects in Structural and Opto-electronic properties of Some Rare-Earth doped ZnO films*
32	Mr. Himanshu Kumar Singh C/o Prof. (Mrs.) Pragya Das Department of Physics, Indian Institute of Technology Bombay -76	Spectroscopic Study of nuclear high-spin states of odd-odd
33	Mr. Vantari Siva C/o Dr. Pratap Kumar Sahoo, School of Physical Sciences, National Institute of Science Education and research, Bhubnaeswar-751005	Synthesis of novel phase by ion beam mixing to observe coexistence of ferromagnetism and superconductivity in Ni/Bi bi-metallic system.
34	Mr. Mukesh Rawat C/o Prof. R.C.Ramola Department of Physics, H.N.B.G. University, Tehri Garwal	Synthesis of lanthanides doped ZrO <sub>2</sub> -Polymer nanocomposites thin film for the modifications in their structural, optical and dielectric properties by swift heavy ion irradiation*

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S.No.	PI Name Affiliation	Title
35	Ms. Madhu Lata Bharti C/o Dr. Veena Joshi Associate Professor, Chemistry, H.N.B. Garhwal University, Srinagar, Uttarakhand,	Swift heavy ion induced modification of carbon nanotube polymer matrix
36	Mr. Jasabanta Sekhar Hansdah C/o Dr. P.M. Sarun Department of Applied Physics, Indian School of Mines , Dhanbad, Jharkhand - 826004	Studies on flux pinning properties of MgB <sub>2</sub> superconductor by selective chemical doping and ion irradiation.
37	Mr. Anand Kumar C/o Dr Manish Kumar Assistant Professor, Department of Physics, Kurukshetra University, Kurukshetra	Ion irradiation effects on electronic, magnetic and optical properties of TiO <sub>2</sub> based Diluted Magnetic Semiconductors
38	Mr. Bilal Ahmad Bhat C/o Dr. G.R.khan Department of Physics, NIT, Srinagar, Hazratbal –190006	Effect of Irradiation on semiconductor-to-metal transition temperature of vanadium dioxide thin films*
39	Prof. Ushasi Datta Pramanik Nuclear Physics Division, Saha Institute of Nuclear. Physics, 1/AF Bidhanagar , Kolkatta – 64	Systematic study of evaporation of the compound nuclei away from stability
40	Dr. Sudipta Bandyopadhyay Department of Physics University of Calcutta, 92, A.P.C. Road, Kolkatta west Bangal – 700009	Defect Correlated magnetic Properties of Ion Irradiated Fe and Ni Doped ZnO thin films
41	Dr. Kanwarjit Singh Department of Physics, Guru Nanak Dev University, Amritsar Punjab – 143005	Ion beam irradiated glasses as non-conventional transparent gamma ray shields*
42	Dr. Mahendra D. Shirsat Department of Physics Dr. Babasaheb Ambedkar Marathwada University, Aurangabad – 431001	Effects of SHI irradiation on SWNTs/Organic Conducting Polymer (OCP) Nanocomposites: Sensitive Detection of Heavy Metal Ions

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S.No.	PI Name Affiliation	Title
43	Dr. P.P. Sahay Department of Physics, Motilal Nehru National Institute of Technology, Allahabad – 211004	Swift Heavy ion irradiation induced modification in structural, optical and gas sensing behaviour of ZnO-SnO <sub>2</sub> based composites*
44	Dr. Praveen D Assistant Professor Amrita School of Engineering, Amirta Vishwa Vidyapeetham, Kasavanahalli, Carmelram Post, Bangalore – 560035	Ion Irradiation Effect on Dye sensitized solar cells*
45	Dr. Anil Vithal Ghule Department of Nanotechnology Dr. Babasaheb Ambedkar Marathwada University, Aurangabad – 431004	Engineering of Biosynthesized SnO <sub>2</sub> nanoparticle thin films via swift heavy ion (SHI) Ag <sup>+</sup> irradiation for gas sensor application*
46	Dr. Dillip K Pradhan Assistant Professor, Department of Physics, National Institute of Technology, Rourkela odisha – 769008	Swift heavy ion irradiated ferroelectric-Ceramics-Polymer Nanocomposites for power Nano-electronics.
47	Dr. N.L.Singh M.S.University of Baroda, Vadodara -390002 Gujrat	Effect of break up on fission/fusion cross sections and fission anisotropy in <sup>6,7</sup> Li induced reactions with fissile targets
48	Dr. J.Kumar Crystal Growth Centre, Anna University, Chennai – 25	Investigation of Swift heavy ion irradiation on PZN-PT thin films
49	Dr. Tarkeshwar Trivedi Department of Pure & Applied Physics, Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur – 495009	Systematic Investigations of Octupole Correlations in <sup>150-153</sup> Eu N=87-90 Nuclei
50	Dr. S.K.Singh Associate Professor, Department of Geology, Delhi University, New Delhi – 110067	Estimation of erosion rate in the Yamuna River basin, NW Himalaya
51	Dr. Pawan K. Diwan Assistant Professor Department of Applied Science University Institute of Engineering and Technology (UIET), Kurukshetra University, Kurukshetra,	Higher Order Moments in Energy loss Distribution of Swift Heavy Ions on Metallic Foils.

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S.No.	PI Name Affiliation	Title
52	Prof. Ajay Gupta Centre for Spintronics, Amity University, Sector – 125, Noida- 201301	Tailoring the magnetic properties of exchange spring magnets using heavy ion irradiation*
53	Prof. G.N.Nayak Department of Marine Sciences, Goa University, Goa – 403206	Estimation of Beryllium from polar regions – and lake sediments (like Dal lake, Loktak lake Lakes in Leh region – paleo-oceanographic Implications
54	Dr. Avinash Agarwal Associate Professor, Bareilly College, Bareilly, M.J.P.Rohilkhand University, Bareilly – 243 005	Study of role of angular momentum and effect of projectile structure in incomplete fusion reactions
55	Dr. Shashank N.Kane School of Physics, D.A.University, Khandwa Road, Indore – 452001	Influence of swift heavy ion irradiation on cation distribution and magnetic properties of ferrites: In-situ and off-situ studies*

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