

SUMMARY OF PROJECTS SANCTIONED DURING ACCELERATOR USERS COMMITTEE(AUC)-52 MEETING

S.No	PI Name Affiliation	Title
1	Prof. Santanu Ghosh Indian Institutes of technology, Hauz Khas, New Delhi - 110016	On-Line H detection of Silicon Nitride Based Solar Cell and Correlation with structure and optical properties,
2	Dr. A.K.Tyagi Head solid state Chemistry Section, Bhabha Atomic Research Centre, Mumbai – 400 085	Ion Irradiation induced structural modifications in potential ceramic host materials for nuclear applications
3	Dr. Tapan Nandi Inter-University Accelerator Centre Aruna Asaf Ali Marg, P.O. Box: 10502 New Delhi : 110 067	Investigation of Stark Mixing phenomenon due to wake potential through lifetime measurements of M1 lines in H-like V, Fe, Ni, & Zn ions
4	Dr. V.Raghavendra Reddy Scientist – E, UGC-DAE Consortium for Scientific Research. Khandwa Road, Indore - 452001	Study of swift heavy ion induced modifications of multiferroic epitaxial GaFeO ₃ thin Films.
5	Dr. Vikas Baranwal Nanotechnology Application Centre ,University of Allahabad, 211002	Semi-conducting Quantum dots: the study of synthesis and shape evolution by energetic ions
6	Dr. Raghvendra Singh Yadav Nanotechnology Application Centre Science Faculty, Postdoctoral Fellow, University of Allahabad – 211002	Lonoluminescence and VUV PL Characteristics of ion irradiated PDP nanophosphors
7	Dr. Naresh Chandra Mishra Department of Physics Utkal University, Bhubaneswar – 751 004	Swift heavy Ion irradiation induced Modification of opto-electronic switching response in AgInSe ₂ .
8	Dr. Hiroshi Amekura National Institutes for Materials Science Tsukuba – 305-0003	Optical detection of elongation of metal nanoparticles induced by swift heavy ion irradiation
9	Dr. Yogesh Kumar Inter-University Accelerator Centre Aruna Asaf Ali Marg, P.O. Box: 10502 New Delhi : 110 067	Study of Sr-doped La ₂ NiO ₄ and the effect of swift heavy ion irradiation on charge ordering.
10	Dr. Sanjay Kumar Chamoli Department of Physics & Astrophysics University of Delhi (north Campus) New Delhi : 110 007	RDM lifetime measurements in neutron deficient Pd nuclei.
11	Dr. Gagan Dixit Inter-University Accelerator Centre Aruna Asaf Ali Marg, P.O. Box: 10502 New Delhi : 110 067	Study of YmnO ₃ thin films (pure and Fe doped) under the effect of swift heavy ion irradiation.

S.No	PI Name Affiliation	Title
12	Dr. R.G.Thomas Scientific officer(F), NPD, BARC, Mumbai-400085	Mass angle correlation studied fusion fragments produced in $^{12}\text{C}+^{238}\text{U}$ and $^{18}\text{O}+^{232}\text{Th}$ reactions
13	Dr. Tanuja Mohanty School of Physical, JNU, New Delhi – 110067	Study of SHI induced modification in the photocatalytic and electronic properties of graphene-TiO ₂ nanocomposite thin films
14	Bichitrananda Dash Department of Physics Salipur College, Salipur, Cuttak, Orissa	Effect of SHI irradiation on interfacial modification and magneto-electric response of bilayer composite multiferroics.
15	Pratap Kumar Sahoo National Institute of Science Education and research(NISER), Bhubaneshwar – 751005	Observation of Phase formation, Co-existence of Ferromagnetism and Superconductivity by ion beam mixing of Ni/Bi system
16	Dr. P.V.Madhusudhana Rao Nuclear Physics Department, Andhra University, Visakhapatnam, Andhra Pradesh – 530003	Search for Octupole deformation in ^{224}U using INGA-HyRA combined at IUAC
17	Dr. Naresh Chandra Mishra Department of Physics Utkal University, Bhubaneswar - 751004	Thickness dependent evolution of Au thin films under SHI irradiation.
18	Dr. B.K.Nayak Nuclear Physics division, Bhabha Atomic Research Centre, Mumbai-400085	Study of fusion-fission dynamics from fragment mass dependent neutron and charged particle multiplicities for compound nuclei around Z=100
19	Dr.A.M.Vinok Kumar Department of Physics University of Calicut/IUAC Kerala – 673 635	Evaporation Residue measurements in the 18, 16O + 181Ta using HIRA spectrometer.
20	Dr.G.Ravi Kumar Technica Physics Division Baba Atomic Research Centre Trombay, Mumbai-400085	Effect of ion irradiation on the metamagnetic transition in Ce(Fe _{0.96} Ru _{0.04}) ₂
21	Prof. Ashok Kumar Department of Physics Tezpur University	Ionic Transport Studies in Ionic Liquid based Polymer Nanocomposite Electrolytes and Swift Heavy Ion Irradiation Effects
22	Mr.Ashwath Rao C/o Prof. B.R.Singh Department of Microelectronic Indian Institutes of Information technology, Allahabad	Radiation effects on semiconductor devices
23	Ms. Navjot Kaur C/o Prof. Rajeev Patnaik Department of Geology Punjab University, Chandigarh	Geochronological & paleoclimatological application of cosmogenic radio nuclides in Narmada valley & in Neogene to quaternary transition in the shivalik deposits of Himachal Pradesh.

S.No	PI Name Affiliation	Title
24	Mr. Yasir Ali C/o Prof.A.S.Dhaliwal Department of Applied Physics sant Longowal institutes of Engineering and Technology(Deemed University). Sangrur (Punjab 148106	Effect of ion beam irradiation of metal-conducting polymer composites
25	Mr. Khalid Sultan C/o Dr. M.Ikram Department of Physics NIT, Srinagar	Synthesis, Characterization of some Rare Earth Transition metal Oxides and their irradiation study
26	Mr. Parmod Kumar C/o Dr. Hitendra K.Malik Department of Physics IIT Delhi, New Delhi-110016	Swift Heavy ion induced modifications on Mg doped ZnO systems
27	Gurpreet Kaur C/o Dr. B.R.Behera Department of Physics Punjab University, Chandigarh - 160014	Measurement of Fusion Barriers for cold and hot fusion reactions
28	Mr. Harish Kumar C/o Dr. M.Afzal Ansari Department of Physics AMU Aligarh - 202002	Study of entrance channel effects on incomplete fusion dynamics in heavy ion induced reactions at E=3-7 MeV/nucleon
29	Mr. Haris Kunari C/o Dr. Tauheed Ahmad Department of Physics AMU Aligarh	Structure and spectra of highly charged tin atoms
30	Mahender Partap Singh Rana C/o R.C.Ramola Department of Physics HNBG University, Garhwal	Synthesis and modification of Pure and Doped Tin Oxide(SnO ₂) Thin Film Using Thermal Annealing and SHI irradiation
31	Sandhya Negi C/o Prof. R.C.Ramola Department of Physics HNBG University, Garhwal	Synthesis and modifications of doped ZnO nanocomposite thin film for gas sensing applications
32	Mr. Neelratan Singh C/oDr.C.S.Dubey Department of Geogy University of Delhi	Active tectonics, erosion and Tectono geomorphotogical studies in relation to climate in Satluj river valley
33	Mr. Basu Kumar C/o Dr.Anil Kumar Department of Physics Jai Prakash Vishwavidyalaya,	Beam foil spectroscopy of highly charged 3d elements

S.No	PI Name Affiliation	Title
	Chapra-841 301	
34	Mr. Pragati Kumar C/o Dr. Avinash Agarwal Department of Physics Bareilly College, Bareilly – 243005 UP	SHI effect on luminescence activator doped CdS based nanocomposites
35	Ms. Arpna Kujur C/o Prof. D.Behera Department of Physics National Institutes of Technology, Rourkela	Enhancement of swift heavy ion irradiation of critical current density of YBCO with Non-Super-conducting Nano- particles
36	Ms. Sumiara Mehraj C/o Prof. Alimddin Aligarh Muslim University UP - 202002	Effect of Swift Heavy Ion irradiation on Structural, Optical and Magnetic Properties of $\text{Sn}_{1-x}\text{Fe}_x\text{O}_2$ Thin films and $\text{SnO}_2/\text{Sn}_{1-x}\text{Fe}_x\text{O}_2$ Bilayer.
37	Dr. S.K.Sinha Deptt of Applied Physics Birla Institutes of technology Mesra, Ranchi	Swift ions for better biocompatibility of Sol-gel coated Hap on alumina
38	Prof. Keya Dharamvir Panjab University Chandigarh	Physico-Chemical Studies of Carbon Nanotubes Modified by Swift Heavy Ion Irradiation.
39	Dr. Shashi Verma Department of Physics University of Delhi Delhi – 110007	Study of fission dynamics through neutron, multiplicity measurements in mass region ~ 200
40	Dr. Anil Vithal Ghule Deptt. Of Nanotechnology Dr. Babasaheb Ambedkar Marathwada University Aurangabad-431004,	Engineering of $\text{Al}_2\text{O}_3\text{-NiO}$ nanomaterial via swift heavy ion (SHI) Ni^+ irradiation on Al_2O_3 thin films prepared by SILAR for catalysis/gas sensor application.
41	Dr. Manzoor A. Malik Deptt. Of Physics University of Kashmir Hazratbal, Srinagar – 190006,	Effect of SHI irradiation on some-physical properties of Superconducting/ Non-superconducting thin films
42	Dr. Mohd. Ikram NIT Srinagar Hazratbal, Srinagar - 190006	Synthesis, characterization of some rare earth transition Metal Oxides & their Irradiation Study
43	Dr. B.N.Dole Deptt. Of Physics Dr. Babasaheb Ambedkar Marathwada, University Aurangabad - 431004	Effect of SHI irradiation on different properties of Mn doped ZnO Nanoparticles
44	Prof. Avinash Chandra Pandey HOD, PI(NAC) University of Allahabad Allahabad – 211 002	Tailoring the properties of Luminescent magnetic nanoparticles by swift heavy ions
45	Dr. Nitin Kumar Puri Department of Applied Physics, Delhi Technological University Bawana Road, Delhi-110042	Origin of circular Rydberg states in Beam Foil excitation

S.No	PI Name Affiliation	Title
46	Dr. Sanjay Kumar Chamoli Deptt. Of Physics Astrophysics, University of Delhi-110007	Nuclear structure studies at high spins in nuclei of mass region A-175
47	Dr. E.Prasad Deptt. Of Physics School of Mathematical and physical Science Central University of Kerala, Riverside Transit campus, Padnekad, Nileshwar Kasaragod – 671314, Karela	Searching the stabilizing effects on N=126 compound systems formed in heavy ion collisions.
48	Dr. Kushal Kalita Department of Physics Gauhati University, Guwahati- 781014	Measurement of evaporation residue excitation functions and barrier distributions on $^{16}\text{O}+^{176}\text{Yb}$ and fission fragment anisotropy studies on $^{24}\text{Mg}, ^{28}\text{Si}+^{204,207}, ^{208}\text{Pb}$ Systems
49	Prof. Ashok Kumar Department of Physic Tezpur University Napaam, Tezpur – 784 028, Assam	Effect of Swift heavy ion irradiation on electrical and thermal transport of conducting polymer Nanostructures.
50	Prof. Pralay Maiti School of Materials Science and tecnology IT-BHU, varanasi, UP-221005	Porous polymeric materials using swift heavy ions.
51	Prof. D.Behera NIT. Rourkela Orrissa	Enhancement of JC by shift heavy ion on YBCO with a non superconducting composites.
52	ISH MUKUL Department of Physics IUAC, New Delhi	Study of the effect of entrance channel or GDR observables in medium heavy mas region
53	Dr.R.G.Thomas Scientific officer(F), NPD, BARC, Mumbai-400085	Mass angle correlation studied fusion fragments produced in $^{32}\text{S}, ^{28}\text{Si}, ^{27}\text{Al}, ^{24}\text{Mg}$, reactions.
54	Mr. Pratp Kumar saho School of Physical Science National Institutes of Science Education and Research, Bhuvneshwar -751005	Swift heavy ion induced epitaxial crystallization of SiO_2/Si and SiO_2
55	Prof. Ajay Gupta UGC-DAC Consortium for Scientific Research, University Campus, Khandwa Road, Indore – 452 001 MP	Study of Swift ions induced interface sharpening in multilayer x-ray mirrors.
56	Ms. Jasmeet Kaur C/o Prof. A.K.Bhati, Deptt of Physics Punjab University, Chandigarh	Nuclear Electromagnetic Moment measurements in the A-130 Mass region,