

Summary of projects sanctioned during Accelerator Users Committee(AUC)-51 meeting

Sr . No.	Name and Affiliation	Title
1.	Dr. Alexander Yeremin Head, VASSILISSA Group FLNR, JINR ,Dubna,Russia- 141980	Fusion cross section and spin distribution measurements in $^{19}\text{F} + ^{197}\text{Au}$ - $^{216}\text{Ra}^*$ --Comparison of average angular momentum from gamma multiplicity and partial wave cross section ration in heavy system
2.	Dr. Manvendra Kumar Nanotechnology Application Centre University of Allahabad Allahabad -211 002	SHI irradiation of Metaloporpyrin films: Surface engineering and sputtering
3.	Dr. Kishor Sukhatankar R P Gogate College of Arts & Science and R V Joglekar College of Commerce, Ratnagiri Mumbai U:niversity Maharashtra – 414 612	To investigate the effect of substrate temperature on the Electrical properties of swift heavy ion irradiated GaAs.
4.	Dr. S Appannababu IUAC,New Delhi-110067	Study of Fission Fragment mass angle correlations and mass ratio distributions for the reactions $^{10,11}\text{B} + ^{232}\text{Th}$
5.	Dr. Rasik Ravindra National Centre for Antartic & Ocean Research Headland Sada, Vasco-da-Gama Goa – 403804	Reconstruction of the chronostratigraphy of IODP322, sediment core(north west pacific ocean) using $^{10}\text{Be}/^{9}\text{Be}$ dating
6.	Dr. G B V S Lakshmi IUAC New Delhi-110067	Irradiation effects on Polyaniline nano fibers-CNT:Au-PANINF composites based biosensors
7.	Dr. Rakesh Kumar IUAC,New Delhi-110067	Coulomb excitation of $^{120,122}\text{Te}$ isotopes
8.	Dr. Nirmal Singh Department Of Physics Panjab University Chandigarh – 160 014	Normal Deformed And Strongly Deformed Nuclear Structures In (1) Hafnium 161 and Hafnium 162, (2) Hafnium 162 and Hafnium 164
9.	Dr. Subinit Roy Saha Institute of Nuclear Physics I/AF Bidhannagar Kolkata – 700064	Fusion Excitation Function Measurement at above barrier energies for $^6\text{Li} + ^{64}\text{Ni}$
10.	Dr.E.Prasad Asst.Professor Central University of Kerala-671328	Fission fragment measurements in $^9\text{Be} + ^{235,238}\text{U}$ and $^{12}\text{C} + ^{232}\text{Th}$ systems.
11.	Dr. Rajeev Kaushik Head,Department of Physics K.K. Jain (P.G.) College, Khatauli (UP)- 251 201	Swift Heavy Ion Irradiation of insulating thin films doped with metallic particles
12.	Dr P.V. Lakshmi Narayana Department of Nuclear Physics Andhra University Visakhapatnam (AP) - 530 003	An environmental magnetic study and elemental composition of a marine sediment core from the central western bay of Bengal: Implications for oceanographic studies
13.	Dr. Vikas Baranwal Nanotechnology Application Centre University of Allahabad - 211 002	Semiconducting Quantum dots the study of synthesis and shape evaluation by energetic ions
14.	Prof. J.P. Srivastava Department of Geology University of Delhi,Delhi – 110 007	Study of Cesium irradiation in the impact glass from lonar crater Buldana Maharashtra
15.	Dr. Tapan Nandi IUAC,New Delhi-110067	Detail Investigation of the effect of Wake potential on the energy-loss for meV ions

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16.	Dr. Sanjay Kumar Chamoli Department of Physics and Astrophysics University of Delhi (North Campus) Delhi – 110007	Lifetime measurement of the high spin states in ^{175}Re nucleus
17.	Dr. Rajarshi Raut UGC-DAE Consortium For Scientist Research Kolkata Centre Kolkata- 700098	Nuclear Structure Studies In the $88 \leq Z \leq 92$ Transitional Region
18.	Dr. Archana Bohra IUAC, New Delhi-110067	^{10}Be measurements on samples along Yunam river of Lahaul and Spiti to estimate erosion rate: palaeoclimatic significance
19.	Dr. B.H.V.S. Narayana Murthi Directorate of RTEC Research Centre IMARAT Vignyana Kancha Hyderabad – 500 069	Radiation Tolerance Testing of SoCs Developed At RCI
20.	Mr. Hemant Kumar C/o Dr. R C Srivastava Department of Physics G B Pant University of Agriculture Technology Pantnagar 263 145	Irradiation Induced Modifications In Dysprosium Doped Cobalt Ferrite Nanoparticles and Thin Films.
21.	Ms. Harmanmeet Kaur C/o Dr. Lakhwant Singh Guru Nanak Dev University Amritsar – 143 005	Nano/micro structure on semiconductor substrate: Synthesis and Characterization
22.	Mr. Narender Kumar C/o Dr. Sushil Kumar Physics Department Haryana College of Technology & Management Kaithal, Haryana- 136 027	Study of Radiation Effects on the Properties Nano and Microstructures
23.	Mr. Shammi Verma IUAC, New Delhi-110067	Metal-Semiconductor Interface Engineering by Swift Heavy Ion (SHI) irradiation
24.	Anshul Jain C/o Dr. R S Chauhan Department of Physics R B S College Agra -282 002	SHI Induced Modification of Thin Film And Nanostructure of TCO
25.	Ms. Amandeep Kaur C/o Dr. R.P. Chauhan Physics Department National Institute of Technology Kurukshetra – 136 119	Study of electrical and structural properties of irradiated Nano structures
26.	Mr. Satyendra Kumar Prof. R G Sonkawade Department of Applied Physics, School of Physical Sciences, BBA University Lucknow(A Central University) Lucknow, - 226 025	Synthesis and Characterization of nanocomposite polymer films
27.	Ms. Prachi Singhal C/o Prof. Sunita Rattan Department of Chemistry Amity Institute of Applied Sciences Amity University (UP)-201 303	Synthesis and Characterization of Graphite Nanocomposites
28.	Mr. Koushik Saha C/o Dr. Bhas Bapat Space and Atmospheric Sciences, Physical Research Laboratory Navrangpura, Ahmedabad-380 009	Dependence of dissociation channels of small molecules on shell-specific ionization and relaxation processes
29.	Mr. Neeraj Bansal C/o Dr. A.K. Bhati Department of Physics Guru Nanak Girls College Model Town	Nuclear Electromagnetic Moment Measurements in Neutron Deficient La Nuclei

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	Ludhiana (PNJ) – 141 002	
30.	Mr. Alamgir C/o Prof. Shafikuddin Mollah Department of Physics Aligarh Muslim University, Aligarh (UP)- 202 002	Swift Heavy Ion Induced effects on the structural, electrical, Dielectric, Optical and Magnetic Properties of co, Cr doped TiO ₂ Bilayer thin Film
31.	Ms. Neeru Sehdev C/o Prof. Annapoorni Department of Physics and Astrophysics University of Delhi, Delhi – 110 007	Co Based Magnetic Nanostructures L ₁₀ CoPt alloy and CoFe ₂ O
32.	Ms. Sucheta Sharma C/o Dr. Mahavir Singh Department of Physics Himachal Pradesh University Summer Hill, Shimla	Swift Heavy Ion Irradiation Effects on Magnetic Properties of Substituted Ni-Zn Nano Ferrites
33.	Ms. Ratnesh Kumar Pandey C/o Prof. Avinash Kumar Pandey Nanotechnology Application Centre University of Allahabad Allahabad (UP)- 211 002	Electronic Sputtering In Fluoride Thin Films
34.	Ms. Vishalli C/o Prof. Keya Dharamvir Department of Physics Panjab University Chandigarh – 160014	Study of Carbon Nanotube modified by swift heavy ion irradiation
35.	Mr. Sunil Kumar IUAC, New Delhi-110067	Ion Beam induced studies in Graphene
36.	Ms. Compesh IUAC, New Delhi-110067	Alloy Formation by Nano Scale Ion Beam
37.	Ms. Asha C/o Lekha Nair Department of Physics Jamia Millia Islamia New Delhi	Ion Beam Induced nanostructuring of thin films
38.	Ms. Zoha Zainab C/o Prof. S Mollah Department of physics Aligarh Muslim University Aligarh – 202 002	Effect of SHI Irradiation on Structural, Electrical and Magnetic Properties of La _{0.6} Bi _{0.4} Co _x Fe _{1-x} O ₃ and La _{0.6} Bi _{0.4} Ni _x Fe _{1-x} O ₃ Thin Films
39.	Ms. Preeti Sharma C/o Dr. Satish Khansa Department of Physics D.C.R. University of Science and Technology Murthal, Sonapat (Haryana)- 131001	Effect of Swift Heavy Ion Induced modified on Vanadium Oxide based Thin Film
40.	Prof. Avinash Chandra Pandey Nanotechnology Application Centre. University of Allahabad Allahabad – 211 002	Tailoring the properties of nanoparticles by swift heavy ions
41.	Dr. T. Subba Rao Department of Physics Sri Krishnadevaraya University Anantpur (AP) 515055	Heavy Ion Radiation on Oxides, Semiconductors And Carbide Thin Films
42.	Prof. Subrata Kumar Dey West Bengal University of Technology Department of Biotechnology BF-142, Salt Lake, Sector – 1 Kolkata – (WB) -700064	Effects of Heavy Ion Radiation on Human Cord Blood Hematopoietic Stem Cells
43.	Dr. Ashok Kumar Department of Physics Panjab University Chandigarh – 160 014	Study of Precission and postscession charged particle emission in heavy ion induced reactions

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44.	Dr. K.R. Nagabhushana P.E.S. Institute of Technology 100 Feet Ring Road Banashankari 3 rd Stage Bangalore – 560 085	Swift heavy ion induced luminescence studies in nanocrystalline zirconia
45.	Dr. Sanjit Dey University of Calcutta 92, APC Road Kolkata – 700 009	Molecular action of Moringa Oleifera leaf extract and its active components on radiation protection: Assessment of Low and High LET radiation effectivity
46.	Dr. Rajeev Gupta Department of Physics University of Petroleum & Energy Studies Dehradun	Development of Super hydrophobic transparent polymeric coating induced by ion beams to increase the efficiency of the solar by self cleaning process.
47.	Dr. Mahavir Singh Department of Physics, Material Science Himachal Pradesh University Summer Hills Shimla (HP)- 171 005	Swift Heavy Ion Irradiation Effects on Magnetic Properties of Substituted Ni-Zn Nano Ferrites
48.	Dr. R.T. Rajender Kumar Department of Physics Bharathiar University Coimbatore (TN) - 641 046)	Swift Heavy Ion Irradiation Effects on the Morphological and Surface Properties of ZNO Nanorod Array
49.	Dr. D.G. Kuberkar Department of Physics Saurashtra University Rajkot – 360 005	SHI induced modifications in the properties of BiFeO ₃ Multiferroic thin films.
50.	Dr. R.T. Rajender Kumar Department of Physics Bharathiar University Coimbatore (TN)- 641 046)	Influence of Swift Heavy Irradiation on the Structural, Magnetic Properties of GALFENOL (Fe _{1-x} Ga _x)
51.	Dr. N.M. Badiger Department of Physics Karnataka University Dharwad – 580 003	Measurement of ER spin distribution using 4π spin spectrometer and HYRA
52.	Prof. J.P. Srivastava Department of Geology University of Delhi Delhi – 110 007	Cosmogenic ¹⁰ Be dating of the bole sediments of the Deccan Traps: palaeoenvironmental implication and duration of volcanism at KTB
53.	Dr. Samit Kumar Mandal Department of Physics & Astrophysics University of Delhi Delhi – 110007	Investigation of few-nucleons transfer reaction in medium mass nuclei at and near the Coulomb barrier
54.	Dr. Vivek Kumar Centre for Medical Physics Panjab University Chandigarh – 160 014	Nuclear electromagnetic moment measurements using PAD Techniques
55.	Dr. Anil Kumar Department of Physics Jaiprakash University Chapra (Bihar)- 841 301	Simultaneous of Atomic and Nuclear Physics
56.	Dr. Ratnesh Gupta School of Instrumentation Devi Ahilya University Khandwa Road Indore – 452 001	To study shape transformation of nanoparticles induced by Swift Heavy Ions
57.	Dr. Punita Verma Department of Physics Kalindi Colege East Patel Nagar New Delhi – 110008	Exploration of quasimolecular radiation for superheavy systems (unified nuclear charge >100): impact parameter dependent investigations

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58.	Prof. RaviKumar Centre for Materials Science and Engineering National Institute of Technology Hamirpur (HP)- 177 005	Effect of Swift Heavy ion irradiation on magneto-transport properties of Multilayers of CMR/Hight-Tc Superconductors/CMRthin films
59.	Dr. Suresh Kumar Department of Physics and Atstrophysics University of Delhi Delhi -110007	Study of near stability Transitional Nuclei: Low Spin States, Isomers and Critical Point Symmetry
60.	Dr. Hariprakash Sharma Deptt. Of Physics Banaras Hindu University Varanasi – 221 005	Structure of h11/2 bands in 125,127I