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AUC-73 APPROVED PROPOSALS FOR AMS

<u>AUC ID</u>	<u>TITLE</u>	<u>PI NAME & AFFILIATION</u>	<u>UFR STATUS</u>
73121	Investigations of basin scale landscape evolution in bedrock systems of the Jawhar Plateau: Western India.	Dr. Archana RNC Arts, JDB Com. and NSC Sci. College, Nashik.	-
73123	Determination of age of gall stones using, C14 dating and its relationship with, development of symptoms, complications, and malignancy.	Dr. Shivendra Singh Senior Consultant and Chief of GI Oncosurgery, Rajiv Gandhi Cancer Institute and Research Centre, Delhi.	-
73124	Palaeoclimate reconstruction from peat records of Chopta Bugyal, Central Garhwal Himalaya.	Dr. Narendra K. Meena Wadia Institute of Himalayan Geology, GMS Road.	-
73125	Cosmogenic Radio Nuclide (10 Be and 26Al) Dating for Constraining the Little Ice Age in the Western Himalayas.	Dr. Rakesh Saini Dr. Harisingh Gour Central University, Sagar.	-
73126	Late Quaternary climate and environmental changes inferred from lacustrine sediments of Spiti Valley, Himachal Pradesh.	Dr. Prakasam M. Wadia Institute of Himalayan Geology, Dehradun.	-
73128	Using past analogues to understand role of fire and climate change in central India.	Dr. Meghna Agarwala Ashoka University.	-
73130	High resolution foraminiferal response to the climatically induced changes in the Northeast Arabian Sea.	Prof. Ajai Kumar Rai University of Allahabad, Prayagraj, UP.	-
73133	Granulometric and Geochemical characters of sediment core from Ninetyeast Ridge, Bay of Bengal: Insight to sediment provenances and depositional environment.	Mr. Manoj R V Geological Survey of India, Marine and Coastal Survey Division, Pandeshwar, Mangalore.	-
73134	Paleoseismic Investigation and Seismic Hazard Analysis, Himalaya.	Dr. Shreya Arora Bates College, 44 Campus Ave Lewiston Maine, USA.	-
73135	Signature of extreme cosmic events and Radiocarbon calibration data set from India.	Dr. Pankaj Kumar IUAC New Delhi.	-
73136	Absolute dating of bone samples of animal origin to complement 14C-charcoal-age from the archaeological site of Erenda, West Bengal.	Dr. Nabanita Naskar Diamond Harbour Women's University, West Bengal.	-
73137	Response of drainage to tectonics: deformation studies along Dihing river valley Eastern Himalaya.	Dr. R. Jayangondaperumal Wadia Institute of Himalayan Geology, Uttarakhand.	-
73138	Development of Paleo-earthquake History along the Naga Thrust (NT) of Indo-Burma Range: Multi-Dating approach.	Dr. R. Jayangondaperumal Wadia Institute of Himalayan Geology, Uttarakhand.	-
73141	Paleoclimate and Himalayan weathering changes during the Late Quaternary: a multi-proxy records from the Northern Indian Ocean sediments.	Dr. Prakasam M. Wadia Institute of Himalayan Geology, Dehradun, Uttarakhand.	-

73143	Middle Pleistocene to Holocene dynamics of Antarctic Circumpolar Current and its implications to global climate: Evidence from Southern Pacific.	Dr. Raj K Singh SEOCS, Indian Institute of Technology Bhubaneswar.	-
73153	Radiocarbon dating of organic sediment samples from wetlands for environmental reconstruction of fires, vegetation and climate.	Dr. P. Ramya Bala National Institute of Advanced Studies, Bangaluru-560012.	-
73157	10-Be dating of ferromanganese crust from Laxmi Basin, North Eastern Arabian Sea.	Dr. Rajani P Ramesh Geological Survey of India, Geological Survey of India, Pandeshwar, Mangalore.	-
73158	Holocene climatic and environmental changes in the cold arid region of Lahaul Himalaya.	Dr. Suman Lata Srivastava Wadia Institute of Himalayan Geology, Dehradun, Uttarakhand.	-
73159	Holocene paleoclimatic changes from the north-western Himalaya using lake and peat sediments.	Dr. Sudipta Sarkar Wadia Institute of Himalayan Geology, Dehradun, Uttarakhand, Dehradun.	-
73224	Paleoclimate and Holobiome in Lakes of Himalya.	Ms. Sushmita Singh C/o. Prof. Pradeep Srivastava, Department of Earth Sciences, IIT Roorkee.	-
73226	Late Holocene Paleoclimatic Variability of Southern India - Insights from High resolution - Multiproxy Data.	Ms. Yamuna Sali A S C/o. Dr. Anish Kumar Warriar, Department of Civil Engineering, Manipal Academy of Higher Education Manipal, Udupi, Karnataka.	-
73227	Lake records from Northern and Eastern India and Model Runs to understand monsoon variability during the last millennium.	Mr. Biswajit Palar C/o. Prof. Anil Kumar Gupta, IIT Kharagpur.	-
73228	Coastal Geomorphology and Palaeoclimatic Studies of the Quaternary Sediments of Northern Kerala, India.	Mr. Pranav Prakash C/o. Prof. Rajesh Reghunath, University of Kerala.	-
73229	Reconstruction of past seasonality using chemical proxies in gastropod remains, Tigrana, HR, and Vadnagar, GJ.	Mr. Ritvik Chaturvedi C/o. Prof. Prosenjit Ghosh, Indian Institute of Science (IISc), Bengaluru.	-
73230	Quaternary Landscape, Cultural and Climatic records from the Rarh Bengal region, Eastern India.	Mr. Sourav Mukhopadhyay C/o. Prof. P. D. Sabale, Deccan College & PGRI, Deemed University.	-
73231	Paleoclimate reconstruction using multi-proxy records from the eastern Indian Lake archives of Late Holocene.	Ms. Puja Ghosh C/o. Prof. Anil Kumar Gupta, IIT Kharagpur.	-
73233	Measurement of low level cross-sections for nuclear astrophysical implications.	Mr. Aquib Siddique C/o. Prof. B. P. Singh, Aligarh Muslim University.	-
73236	Multi-proxy approach to palaeoclimate reconstruction by study of sediment core from pristine lakes of Manipur NE, India.	Mr. K Ronald Terieng C/o. Prof. Pramod Singh, Pondicherry University.	-

73242	Reconstruction of surface and subsurface hydrography variation records from the Bay of Bengal Sediments.	Ms. Komal Sahadev Shinde C/o. Dr., Mohan K., School of Engineering, Vellore Institute of Technology (VIT), Chennai.	-
73243	Paleoclimatic Evolution of the Indian Subcontinent using long cores from Chilika Lake Sediments.	Mr. Abhijeet Santra C/o. Prof. Anil Kumar Gupta, IIT Kharagpur.	-
73248	Characterization of basin scale landscape development through Geological, Geochemical and Geochronological indices of Thamirabarani River Basin, Southern India - A case study of the Thamirabarani river basin, Southern India.	Ms. Athira Pramod C/o. Prof. M. Ramkumar, Periyar University.	-
73257	Chemical characteristics and sources of particulate matter (PM2.5 and PM10) in the Eastern Himalayas.	Ms. Akansha Rai C/o. Dr. Sudhir Kumar Sharma, CSIR-National Physical Laboratory (NPL), Academy of Scientific and Innovative Research (AcSIR), Dr. K. S. Krishnan Marg, Pusa, New Delhi.	-
73302	Assessment of Cancer Growth, Dynamics by Radiocarbon Dating, using 14C Bomb-Pulse.	Dr. Mudasir Ashraf Shah Radiological Physics, Department of Radiodiagnosis, Faculty of Medicine, Aligarh Muslim University, Aligarh, U.P.	-
73325	Charge exchange measurements for Positive Ion Mass Spectrometry using LEIBF, IUAC.	Dr. Abhijit Barthakur Department of Physics, Cotton University, Guwahati Assam.	-
AUC-73 APPROVED PROPOSALS FOR LEIBF			
73501	Effect of ion-implantation on carrier lifetime of LT-GaAs and LT-InGaAs for Development of THz Photoconductive Antennas.	Dr. Pika Jha SSPL, DRDO, Timarpur, Delhi.	-
73502	Study the influence on the structural, electrical, optical and switching properties of the Se, S and As doped Ge-Sb-Te based thin film irradiated by low energy ion beam for phase change memory	Ms. Shahin Parveen Jamia Millia Islamia, New Delhi.	-
73504	Low energy ion beam modification of Lab-on-chip platform for continuous synthesis of 2D nanostructures	Dr. Ashish Mathur UPES, Dehradun.	-
73505	Investigations on Phase Change Memory properties of Ge-Se and Ge-S doped Sb ₂ Te ₃ thin films	Dr. Pumljanmunga Jamia Millia Islamia, New Delhi.	-
73506	Development of TMO based Nanocomposites and Thin films for Supercapacitor and Photocatalytic Applications	Dr. Arun Aravind Bishop Moore Coegee, Mavelikara, Alappuzha Dist., Kerala.	-
73509	Development of Infrared Sensor using Phosphorous and Boron Ion implantation in silicon nanowires on Si chip	Dr. Avshish Kumar AIARS (M&D), Amity University Uttar Pradesh, Noida, U.P.	-

73510	Defect induced opto-electronic modification of Molybdenum based few layered dichalcogenides using low energy ion implantation	Dr. Tanuja Mohanty School of Physical Sciences, Jawaharlal Nehru University, New Delhi.	-
73511	Tailoring the magnetoelectric properties of rare-earth orthoferrites via SHI and Low Energy ion beam induced strain for room temperature applications	Dr. Jyoti Yadav Inter-University Accelerator Centre (IUAC), New Delhi.	-
73512	Effect of Ion irradiation in MoS ₂ -phosphates nanocomposites for hydrogen evolution reaction applications.	Dr. Vishakha Kaushik DIT University, Dehradun.	-
73514	Role of ion beams in dye sensitized solar cell devices	Dr. Jeyanthinath Mayandi School of Chemistry, Madurai Kamaraj University.	-
73515	Investigation of radiation induced structural defects in high entropy alloys for nuclear energy applications	Ms. Anju Kumari JNU, New Delhi.	-
73516	Radiation Resilience and associated properties of 2D materials with underlying CDW states.	Prof. V. Ganesan Medi-Caps University, Indore.	-
73519	To Study Optically Stimulated Luminescence in Phosphate/Sulphate based Phosphors Irradiated with Low/High Energy Ion Beams for Hadron therapy.	Dr. Martina Saran IUAC, New Delhi.	-
73521	Effect of ion irradiation on resistive switching in Perovskite thin films.	Dr. Mahesh Kumar IIT Jodhpur, Jodhpur, Rajasthan.	-
73522	Study of effect of ion beam irradiation on thermoelectric properties of some thermoelectric materials like Bi ₂ Te ₃ , Sb ₂ Te ₃ , PbTe and MgAgSb	Dr. Chetan Kachhara Kohima Science College, Nagaland University, Kohima, Nagaland.	-
73523	To Study Multiple ionization, Electron Capture and charge state effects for X-ray Production Cross-section at low energies and its use for the ion beam analysis techniques.	Dr. Manpreet Kaur University Institute of Sciences, Chandigarh University.	-
73525	To study the heavy ion-atom collision processes for the ionization of heavy Z targets and its application for trace element analysis techniques.	Ms. Jagdeep Kaur University Institute of Sciences, Chandigarh University, Punjab.	-
AUC-73 APPROVED PROPOSALS FOR MATERIALS SCIENCE AND ATOMIC PHYSICS			
73246	Study of atomic processes with highly charged ions during ion solid collision	Mr. Manish Kumar Verma C/o. Dr. Narendra Jakhar , University of Rajasthan.	-
73122	Radiation induced defect studies in ceramic composites for Nuclear reactor applications	Dr. Sejal Shah ITER-India, Institute for Plasma Research, Motera, Ahmedabad.	-
73131	Effect of Ion irradiation in MoS ₂ -phosphates nanocomposites for hydrogen evolution reaction applications.	Dr. Vishakha Kaushik DIT University, Dehradun.	-
73139	Investigation of the effects of ion irradiation on the polymer composite electrolyte films for energy storage applications.	Mr. Mohd Sadiq ARSD College, University of Delhi, Delhi.	-

73142	Tailoring the magnetoelectric properties of rare-earth orthoferrites via SHI and Low Energy ion beam induced strain for room temperature applications	Dr. Jyoti Yadav Inter-University Accelerator Centre (IUAC), New Delhi.	-
73144	Study of Radiation Induced Effects in GaN based Photodetectors.	Dr. M. Senthil Kumar CSIR-National Physical Laboratory, New Delhi.	-
73148	Effect of swift heavy ion irradiation and studies shielding property on Bi ₃ O ₂ /polymer nano composite.	Dr. Rajkumar Maroti Lokhande DNCVPS Shirish Madhukarrao Chaudhari College, Jalgaon.	-
73151	To Study Optically Stimulated Luminescence in Phosphate/Sulphate based Phosphors Irradiated with Low/High Energy Ion Beams for Hadron therapy.	Dr. Martina Saran IUAC, New Delhi.	-
73155	Effect of ion irradiation on resistive switching in Perovskite thin films.	Dr. Mahesh Kumar IIT Jodhpur, Jodhpur, Rajasthan.	-
73156	Study of Hydrogen absorption properties of Magnesium based thin films using Elastic Recoil Detection Analysis (ERDA).	Dr. Yogendra Kumar Gautam Chaudhary Charan Singh University, Meerut.	-
73232	Ion Irradiation Induced Modification of Nanocomposite.	Ms. Savita C/o. Prof. Annu Sharma, Kurukshetra University, Kurukshetra.	-
73234	Effect of Swift Heavy Ion irradiation induced strain on spin and orbital ordering in RVO ₃ (R = La, Pr, Y) thin films.	Mr. Shivank Kalia C/o. Dr. Rajesh Kumar, National Institute of Technology, Hamirpur(HP).	-
73241	Synthesis of plasmonic nanostructures by Ion Bombardment and its application.	Mr. Om Prakash C/o. Prof. Santanu Ghosh, IIT Delhi.	-
73245	Ion Beam -Induced Thermoelectric Properties of Vanadium Pentoxide Thin films.	Ms. Akanksha Malik C/o. Dr. Richa Saini, Kanya Gurukula Campus, Haridwar, Gurukul Kangri (DU), Haridwar.	-
73246	Study of atomic processes with highly charged ions during ion solid collision	Mr. Manish Kumar Verma C/o. Dr. Narendra Jakhar , University of Rajasthan.	-
73247	Modifications on the Structural and Electrical Properties of Nanocomposites of Graphene/ rGO with Metal Nanoparticles by Gamma and SHI Irradiation.	Ms. Akshita Bansal C/o. Prof. Neena Jaggi, National Institute of Technology, Kurukshetra.	-
73249	Investigation of radiation induced structural defects in high entropy alloys for nuclear energy applications	Ms. Anju Kumari C/o. Dr. Pawan Kumar Kulriya, School of Physical Science, JNU, New Delhi.	-
73251	Formation of nano-structured W-Cu thin films for nuclear and energy applications.	Ms. Shilpa Thakur C/o. Prof. K. Asokan, University of Petroleum & Energy Studies (UPES) Dehradun, Uttarakhand.	-
73254	Effect of temperature and grain size on precipitation kinetics of Ni ion induced NiCoCr based medium entropy alloys.	Mr. Sai Krishna Jeevanaboina C/o. Dr. Pradipta Ghosh, IIT Gandhinagar, Palaj, Gandhinagar.	-

73301	The impact of swift heavy ion irradiation on the thin films based on CdS and graphene-based composites: A vital step towards new generation solar cells	Dr. Ajay Shankar, Indira Gandhi National Tribal University, Amarkantak, MP.	UFR approved.
73303	Photovoltaic efficiency enhancement by ion-beams.	Dr. Sanjeev Gautam Dr. SSB University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh.	UFR approved.
73305	Dosimetric study of some LiMgPO ₄ and KMgPO ₄ thermoluminescence (TL) materials using ion beam.	Dr. Rohit Mehra Dr. B R Ambedkar National Institute of Technology Jalandhar, Punjab.	UFR not approved.
73308	Swift heavy ion irradiation on Fe ₃ O ₄ @ Au Nanocomposite Hydrogels to enhance the catalytic reduction of 4-NP/ Methylene Blue.	Dr. P. Pazhanisamy Sir Theagaraya College, Chennai.	UFR approved.
73311	Influence of ion irradiated materials in flexible Triboelectric Nanogenerators.	Dr. Sayan Bayan Rajiv Gandhi University, Doimukh, Arunachal Pradesh.	UFR approved.
73313	The influence of Swift Heavy Ion irradiation (SHI) on Zr-UiO-66 Enhancing Sensing Properties.	Dr. Nikeshkumar N Ingle MGM University, Aurangabad (M.S.).	UFR not approved.
73315	Investigations of swift heavy ion irradiation effect on the properties of Na ₄ MTeO ₆ (M=Co, Ni) tellurate compounds.	Dr. Umesh Prakash Gawai DDSP Arts Commerce and Science College, Erandol, Jalgaon.	UFR not approved.
73317	Role of ion beams in dye sensitized solar cell devices	Dr. Jeyanthinath Mayandi School of Chemistry, Madurai Kamaraj University.	UFR approved.
73322	Determination of SHI irradiation induced dislocation density in rare earth metal doped selective dilute magnetic semiconductor nanocrystals from XRD peak profile analysis and its influence on the optical, electrical and magnetic properties.	Dr. Ratan Das Tripura University, Tripura.	UFR approved.
73326	Study of Magneto-electric Coupling in Ni Substituted La _{0.6} Bi _{0.4} FeO ₃ Multiferroic System and Effect of SHI Irradiation.	Dr. Ghazala Anjum SP College Srinagar, Cluster University, Srinagar, J&K.	UFR approved.
73330	Irradiation led modified optoelectronic and thermoelectric response of nanoscale, 2D monochalcogenides	Prof. Dambarudhar Mohanta Tezpur University, PO Napaam, Tezpur, Assam.	UFR approved.
AUC-73 APPROVED PROPOSALS FOR NUCLEAR PHYSICS			
73239	Fusion and Transfer Studies by Quasi-elastic Scattering Measurements.	Mr. Abhijit Bairagya C/o Dr. Anagha Chakraborty, Visva-Bharati, Santiniketan, West Bengal.	-
73244	Investigation of the correlation between nucleon transfer and fusion enhancement at sub-barrier energies.	Mr. Mohd Yasir Arafat C/o. Dr. Moumita Maiti, IIT Roorkee.	-
73252	To determine the ⁵⁸ Co(n,p) cross section taking ⁶¹ Ni(n,p) as the reference, reaction using surrogate ratio method.	Mr. Nitin Kumar Dubey C/o. Dr. Ajay Kumar, Banaras Hindu University, Varanasi.	-

73253	Spectroscopic study of a few $1f_{7/2}$ Ti Isotopes.	Mr. Arkadip Bera C/o. Abhijit Bisoi, IEST Shibpur.	-
73320	Neutron multiplicity measurements along Hg region.	Prof. Bivash Ranjan Behera Panjab University, Chandigarh.	UFR approved.
73328	Investigation of axially symmetric and asymmetric structure in f-p-g shell nuclei.	Dr. Tarkeshwar Trivedi University of Allahabad, Prayagraj.	UFR approved.