

3.7.1 Number of collaborative activities with other institutions/research establishment/industry for research and academic development of faculty and students during the year							
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Sl. No.	Title of the collaborative activity	Name of the collaborative agency with contact details	Name of the participant	Year of collaboration	Duration	Nature of the activity	Link to the relevant document
1	Resource person for a Refresher Course for PG teachers	UGC Human Resource Development Centre, Panjab University, Chandigarh	Archana Mulhoney	2021	1 day	Academic development	www.hbric.ac.in/gqar/2022/CI/m3_7_1/Archana_Mulhoney.pdf
2	BINS project	CSIR-CMAP Research Centre, Pant Nagar, contact details: infocmap@cmrc.res.in 05144 214445	Dr.Venkatesha K.T.	2020-2023	3 years	Principal Collaborator	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/Venkatesh_KT.pdf
3	BINS project	ICAR-NITA, New Delhi, contact details: infocmap@cmrc.res.in 0514 2641797 (ext 201)	Dr. Mahesh Rao	2020-2023	3 years	Principal Collaborator	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/Mahesh_Rao.pdf
4	Clinical applications of radiobiological indicators of radiation exposure	National Institute of Neuro Neurotoxicology (NIN)	Dr. Palfay Gayandev, Dr. Manisha Madkar	2022	1 year	Measurement of radio-sensitivity of patients undergoing treatment for leprosy disorders.	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/Palfay_Manisha.pdf
5	Construction of Dose Response curve for Metaxin UV Automated system of Cu-60 gamma rays	Sri Ramachandra University, Chennai	Dr. Vijayalakshmi	2021	1 year	BINS project	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/Vijayalakshmi.pdf
6	Microbiology	Dr. Devas Charanvedi IT DDUJ Aligarh College of Engineering Pune/ NIT Raipur	Dr. Devas Charanvedi, Ushy Chaturvedi Deepa Chaturvedi Mukesh P Joshi	2017-2021 2017-2022	5 years 5 years	Research on Light matter interaction and Non Linear Dynamics Problems	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/Devasa_Chaturvedi.pdf
7	Time resolved x-ray diffraction study of CuTe after photo-excitation	#40, Department of Mechanical Engineering, Indian Institute of Technology Bombay, Mumbai, MH 400076, India. Email: dipanhu@iitb.ac.in Phone: +91 (22) 2576 2538	Dr. Dipanhu Banral	2021	1 year	Joint Experimental work	Yet to be published
8	Time resolved x-ray diffraction study of CuTe after photo-excitation	AB-81, Department of Condensed Matter Physics & Materials Science, Tata Institute of Fundamental Research, Mumbai, MH 400005, India Email : thamojh@tifr.res.in Office Phone : 22782438	Professor Arumugam Thamozhavel	2021	1 year	Joint Experimental work	Yet to be published
9	World wide open proficiency test in SR-XRF analysis	IAEA	Dr. M.K.Tiwari, ICRAT	2016- 2022	6 years	PT	https://www.researchgate.net/publication/33990780_Benchmark_Analysis_Synchrotron_Radiation_X-Ray_Fluorescence
10	ADVANCED ULTRA SUPER CRITICAL STEAM OXIDATION STUDIES OF WELDMENTS	DR. V. S. RAO, DEPT OF METALLURGICAL ENGG & METEIRAL IT, BOMBAY	DR. S. NINGESH, HEAD, AECG, CST, IGCAR	2021-22	1 year	Object of the Project: 1. Study steam oxidation kinetics of weldments of alloys IN 617M, IN 740, SS 304H Cu and Sanicro 25 SS of AUSC materials. 2. Identify the main mechanism of oxidation, with the quantitative correlation between the oxidation kinetics and conditions of oxidation (pressure, temperature and time).	https://www.researchgate.net/publication/33990780_Benchmark_Analysis_Synchrotron_Radiation_X-Ray_Fluorescence
11	EMULATION BEYOND DESIGN BASIS GROUND MOTION FOR KALPAKAM – ITM, CHENNAI	DR. BAGHURANT S, PROFESSOR, DEPT OF CIVIL ENGINEER, IT MADRAS	DR. RAGHUPATH S, DISTINGUISHED SCIENTIST, DIRECTOR, ROTG, IGCAR	2021-22	1 year	Simulation study (The project is under extension upto Dec'23).	http://publications.tnm.ac.in/publication/beyond-design-ground-motion-in-indo-ganga-basin-by-synthetic
12	HIGH PERFORMANCE CONCRETES FOR NUCLEAR POWER PLANTS IN COASTAL REGIONS-CORROSION	DR. RADHA KRISHNA G. PILLAI, ASSOCIATE PROFESSOR, DEPT. CIVIL ENGG, IT MADRAS	DR. B. ANAND KUMAR, SOE, IANDC/COASTAL, IGCAR	2021-22	1 years	Assessment of mechanical, chemical properties and service life of high performance green concrete in coastal environment	https://doi.org/10.1016/j.constrbuildmat.2021.126146 https://doi.org/10.1016/j.constrbuildmat.2021.126146
13	EXPERIMENTAL AND NUMERICAL STUDY OF LOADING PATH EFFECTS ON DUCTILE FRACTURE IN NUC. ENGINNERING	PROF. SHAM KERALAVARMA DEPT. OF AEROSPACE ENGINEERING	S. ATHIMOLAKRISHNAN, SOE, IANDC/COASTAL, IGCAR	2021-22	1 years	Characterization of fracture behaviour of nuclear grade steels based on combined experimental and numerical study with specific focus on effect of load parameter apart from plastic strain history and stress triaxiality in fracture predictions.	https://www.researchgate.net/publication/35001378442004816
14	DEVELOPMENT OF A THEORETICAL MODEL TO PREDICT TWO PHASE FLOW INSTABILITIES IN SOLID	DR. SATEESH GEDUPUDI, DEPT MECHANICAL ENGG., IIT MADRAS	DR. SP. PATHAK, SOE, SGT/ROD/SF/ROTG, IGCAR	2021-22	1 year	The aim of the project is to gain below: 1. Prediction of threshold of static instability including parametric study w.r.t orifice configuration. 2. To establish the stability maps for safe operation of steam generator and identify the nature of dynamic instability. 3. Parametric effects on dynamic instability. 4. The developed theoretical model and validation with experiments conducted on existing steam generator in steam generator test facility.	The work on modeling of static instability is under progress.
15	DESIGN AND DEVELOPMENT OF SHAKTI-I CORE BASED CPU CARD FOR EMBEDDED SYSTEMS	DR. V. KAMAGOTI, PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGG. IIT MADRAS	D. THIRUGANA MURTHY, AD-ECG/EG IGCAR	2021-22	1 years	Design & Development	The project is in progress.
16	DOSE ASSESSMENT OF PARTIAL BODY EXPOSURE USING PRIMAIRE CHROMOSOME CONDENSATION	N. RAJESH AND S. SUBHASHINI, SSN COLLEGE OF ENGG	S. CHANDRASEKARA, HEAD, IANDC/ROG/SROG, IGCAR	2021-22	14 years	Basic Research experiments	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/DOSE_ASSESSMENT.pdf
17	Dynamics of strongly entangled topological quantum matter	University of Leeds	Dr. Arit C Barman	2020	2 years	Research Collaboration	https://royalsocietypublishing.org/journal/rsos/10/210146
18	Areche 150 MHz DMR scan-Pulsar survey	West Virginia University	Dr. Manjit Bagri	2010	11 years	Research Collaboration, searching for new pulsars.	https://iopscience.iop.org/article/10.1088/1538-4367/19/09/094002
19	Indian Pulsar Timing Array	TIFR Mumbai	Dr. Manjit Bagri	2015	7 years	Timing a number of pulsars as a part of the international effort to detect radio-Hz gravitational waves.	https://arxiv.org/abs/2306.09396
20	Participation in the search of QGP at Brookhaven National Lab, USA using the STAR detector	Brookhaven National Lab, USA & other collaborating centres in the STAR experiment collaboration	Dr. Subhasis Chatterjee, Dr. Zahoor Ahmad, & students	2001	21 years	Basic Research	https://www.star.bnl.gov/central/publication/publications.php
21	International collaboration at LHC-ERN for search of Quark Gluon Plasma	ERN Centre, International collaborating institutes & 12 Indian Institutes	Dr. Subhasis Chatterjee, Dr. Z. Ahmad, Dr. A. K. Dhal, Dr. P. Bhowar, Dr. S. Mukherjee & students	2017	5 years	Basic Research	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/LHC-ERN.pdf
22	Participation in the CBM experiment at FAIR, Germany	FAIR-Germany, International collaborating institutes + 12 Indian Institutes	Dr. Subhasis Chatterjee, Dr. Z. Ahmad, Dr. A. K. Dhal, Dr. P. Bhowar, Chandrasekhar Ghosh + Dr. S. Mukherjee & students	2017	5 years	Basic Research	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/CBM-FAIR.pdf
23	WLCG grid	ALICE collaborating institutes	Subhasis Chatterjee, Vikas Bhatnagar	2017	6 years	Basic Research infrastructure	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/WLCG-grid-Subhasis-Chatterjee.pdf
24	Super Conducting Isotax for Electron and Heavy Ion	TRIUMF Laboratory, Canada	Dr. Vaishali Nayak	2013	10 years	Research & Development on e-Lines	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/Vaishali_Nayak.pdf
25	R & D on SRF technologies as applied to high intensity proton LINACS	The Indian Institutions and Fermilab Collaboration (IFPC)	Dr. Smita Sanyal, Dr. Vaishali Nayak, Dr. Sate Subodha Saha, Prasenjit Bhattacharyya, Shekhar Ghosh, Shekhar Ghosh, Shekhar Ghosh, Shekhar Ghosh, Dr. Anjan Dasgupta, Dr. Smita Sanyal & others	2015	7 years	Research & Development	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/Smita_Sanyal_VEPC.pdf
26	Indian Institutions Fermilab Collaboration (IFPC)	Fermilab National Accelerator Laboratory, USA	Dr. Smita Sanyal, Dr. Vaishali Nayak, Dr. Sate Subodha Saha, Prasenjit Bhattacharyya, Shekhar Ghosh, Shekhar Ghosh, Shekhar Ghosh, Shekhar Ghosh, Dr. Anjan Dasgupta, Dr. Smita Sanyal & others	2007	15 years	Research & Development	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/Smita_Sanyal_VEPC.pdf
27	Collaboration with CSIR	AMPRI CSIR	Kavitha Banerjee	2020	2 years	Characterize radiation shielding material development and testing.	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/Kavitha_Banerjee_Prityag.pdf
28	India-French Collaboration Project CDF-IPFA	India-French Centre	Dr. Chaitany Choudhary	2017	5 years	Basic Research	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/Chaitany_Choudhary.pdf
29	Collaboration on component development for Superconducting RF Cavities	Stan University Accelerator Centre (SLAC), New Dehra	Dr. Sate Subodha Saha, Prasenjit Bhattacharyya, Shekhar Ghosh, Shekhar Ghosh, Shekhar Ghosh, Dr. Anjan Dasgupta, Dr. Smita Sanyal & others	2012	10 years	Research & Development on SRF cavity for high energy, high intensity proton laser accelerator	Between Fermilab, USA and IITM Collaboration (BARC, BRCAT, VECR, IITAC and others)
30	VECC/TRIUMF collaboration on superconducting quarter wave resonator cryomodules	TRIUMF Laboratory, 4004 Wesbrook Mall Vancouver BC V2T 2A3 Canada www.triumf.ca	Anup Bandyopadhyay	2022-23	1 year	Joint Research in particle accelerator technology.	www.vecc.gov.in
31	Investigating the role of TSP14 as a histone chaperone in cells	CSIR-IGCB, Kolkata	Chandrima Das	2021	1 year	Investigating the role of TSP14 in cell lines.	https://doi.org/10.1081/10447030.2021.2022020
32	Molecular basis of substrate-induced ubiquitin transfer by UBR7-PHD finger in cells	CSIR-IGCB, Kolkata	Chandrima Das	2021	1 year	Investigating the role of UBR7, UCH6 and UBE3A in cell lines.	https://pubmed.ncbi.nlm.nih.gov/34749193/
33	Characterization of ADF1 histone chaperone from Plasmodium falciparum	CSIR-IGCB, Kolkata	Chandrima Das	2021	1 year	Molecular characterization of ADF1-ICH1 interaction.	https://pubmed.ncbi.nlm.nih.gov/35414547/
34	Investigating the role of SIRT1 mediated H4K16ac deacetylation during hyperthermia	Texas A&M College of Medicine, Texas	Chandrima Das	2021	1 year	Major project of our laboratory on characterization of TCF19/Ptp33 complex in different neuronal stress conditions (EC, SMC, PSC).	https://pubmed.ncbi.nlm.nih.gov/3436924/
35	Investigating the proteome of TCF19 and Tpt1 in different neuronal stress	Texas Tech University Health Sciences Center, Texas	Chandrima Das	2021	1 year	Major project of our laboratory on characterization of DMPN58 in the context of neuronal differentiation.	Cell Death Disease, 2022 (In Press)
36	Investigating the transcriptional coding as well as non-coding of ZMIND8 during induction of neuron	Texas Tech University Health Sciences Center, Texas	Chandrima Das	2021	1 year	Measurement, characterization and understanding.	Yet to be published
37	AFM study on cancer diagnosis	Shiv Nadar University	Dulal Senapati	2021-2022	1 year	Measurement, characterization and understanding.	1 https://doi.org/10.1016/j.cotfr.2020.111353 2 https://doi.org/10.1021/acs.cgd.0049467
38	Single molecule HRS	IIT Kanpur	Dulal Senapati	2015-2022	7 years	EM analysis and crystal defects	Yet to be published
39	High Resolution Electron Microscopy	IMRE, A*STAR, Singapore	Dulal Senapati	2021-2022	1 year	AFM and EM analysis and understanding	Yet to be published
40	AFM study on membrane structure and RI disruption	Boon Institute, Kolkata	Dulal Senapati	2021-2022	1 year	Anti-carcinogenic effect of Ayurvedic arsenic preparations	Yet to be published
41	Anti-carcinogenic effect of Ayurvedic arsenic preparations	J. B. Roy State Ayurvedic Medical College and Hospital	Dulal Senapati	2018-2022	4 years	R&D on GEM and device physics simulation	Journal of Instrumentation, doi: 10.1088/1748-0221/16/12/P12026
42	Concept Mirror Scintillator (CMS)	CERN	Rayana Majumdar	2014	8 years	R&D on EPC and device physics	Journal of Instrumentation, doi: 10.1088/1748-0221/16/07/P07022
43	India-based Neutrino Observatory (INO)	INF-DST, Goa	Rayana Majumdar	2014	10 years	R&D on MPGD and device physics simulation	Journal of Instrumentation, doi: 10.1088/1748-0221/16/04/P04001
44	INO4 Collaboration	CERN	Rayana Majumdar	2008	14 years	R&D on TPC and MPGD and device physics simulation	Journal of Instrumentation, doi: 10.1088/1748-0221/16/03/P03016
45	TPC & its application in high and low energy nuclear physics	CERN	Rayana Majumdar	2014	8 years	GEM Detector development,	Journal of Instrumentation, doi: 10.1088/1748-0221/16/11/P11024
46	Compact Mirror Scintillator (CMS)	CERN	Sagarika Mukhopadhyay	2022	1 year	TPC development, simulation	Journal of Instrumentation, doi: 10.1088/1748-0221/17/03/P03016
47	International Linear Collider - Time Projection Chamber (ILIC-TPC)	INF-DST, Goa	Sagarika Mukhopadhyay	2010	13 years	EPC development, simulation	Journal of Instrumentation, doi: 10.1088/1748-0221/17/04/P040015
48	INO4 Collaboration	CERN	Sagarika Mukhopadhyay	2008	14 years	MPGD development, simulation	Journal of Instrumentation, doi: 10.1088/1748-0221/16/01/P01003
49	Metabolic Analysis: Precision Medicine – A Model Based Approach to Dose Chemotherapy in Pediatric	Clinical Pharmacology Laboratory, ACTREC, Tata Memorial Centre, New Mumbai, India	Soumen Karthi Manja	2021-22	1 year	Metabolic analysis to identify signature associated with malnutrition and therapeutic response in children suffering from COVID.	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/Soumen_Karti_Manja.pdf
50	Identification of mechanically associated minimally invasive biomarkers for Gall Bladder Cancer	Department of Biotechnology, Institute of Medical Sciences, Banars Hindu University, Varanasi, Uttar Pradesh, India	Soumen Karthi Manja	2021-22	1 year	Metabolic analysis to understand mechanism of saline stress response in soybean plants	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/Soumen_Karti_Manja.pdf
51	Identification of mechanically associated minimally invasive biomarkers for Gall Bladder Cancer	Department of Endocrinology, IPGIMER and SSKM Hospital, Calcutta, West Bengal, India	Soumen Karthi Manja	2021-22	4 years	Metabolic analysis to identify differential biomarkers of galbladder cancer and gallstone disease	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/Soumen_Karti_Manja.pdf
52	Identification of mechanically associated minimally invasive biomarkers for Gall Bladder Cancer	Department of Endocrinology, IPGIMER and SSKM Hospital, Calcutta, West Bengal, India	Soumen Karthi Manja	2021-22	4 years	Metabolic analysis to identify differential biomarkers of galbladder cancer and gallstone disease	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/Soumen_Karti_Manja.pdf
53	Identification of minimally invasive biomarkers for differential diagnosis of brown-onset diabetic retinopathy	Department of Endocrinology, IPGIMER and SSKM Hospital, Calcutta, West Bengal, India	Soumen Karthi Manja	2021-22	1 year	Metabolic analysis to identify minimally invasive prognostic and therapeutic biomarkers of COVID-19	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/Soumen_Karti_Manja.pdf
54	Identification of signatures for prognostic and therapeutic stratification of hospitalized COVID-19 patients	Department of Microbiology, College of Medicine and Sagore Dutta Hospital, Kolkata 700056, West Bengal, India	Soumen Karthi Manja	2021-22	1 year	Identification of experimental facility and conducting experiments for understanding the effects of varying solar panels in low earth and space environments with satellite	http://www.hbric.ac.in/gqar/2022/CI/m3_7_1/Soumen_Karti_Manja.pdf
55	Identification of signatures for prognostic and therapeutic stratification of hospitalized COVID-19 patients	TJ Raj Sankar Centre Old Asapan Road, Vindhyapar, PO Bengluru - 560017, Karnataka, India phone : +91-80-2584469/2584470	Dr. Raj. Saravanan Deyya, Mrs. Ketoo Kulkarni, Mr. Nareish Vagdele	2017	4 years	Development, validation and delivery of a computer code for predicting 'BERT' distance for Protein distance matrix.	https://www.biorxiv.org/content/10.1101/2017.01.18.109827v1
56	Numerical Simulation of &diffusion to denaturation transition	Met. Manisha Sharma, Mr. Sanil Basu	2018	2 years 8 months	Development, validation and delivery of a computer code for predicting 'BERT' distance for Protein distance matrix.	TRIRL-CARS-90118	
57	Terrestrial Bulk/trace Research Laboratory Sector-30 Chandigarh-160001 Phone: (0172-397700), 2651824-36	Terrestrial Bulk/trace Research Laboratory Sector-30 Chandigarh-160001 Phone: (0172-397700), 2651824-36					

	Advanced nanotubes for product life cycle assessment and product monitoring	Indian Institute of Technology Gandhinagar Plot Gandhinagar - 382015, Gujarat Ph: 079-2395-2613-2614	Dr. Balaramaniam C.	2018	3 years	Process development for biotonic nanoproduct consisting of 2D or 3D nanocomposites substrates	SIIRD order and Industries Commissioner, Govt of Gujarat vide F.No. 3.18/2015-T.S-1 (Vol II) and I.C.RAD/SLIC-I/PA/14/17-18.11.1913
60	Design and Support in Installation of the Electromagnetic Coil Gun for Experimental Evaluation of	Terminal Ballistics Research Laboratory, DRDO	Dr. New Annampura	2019	2.5 years	Design and support installation of electromagnetic coil gun for experimental evaluation of force measurment	TBR/CAES/98/2019
61	Synthesis and characterization of boron nitride nanotubes	Vikram Sarabhai Space Centre Thiruvananthapuram, Kerala, India Ph: 0474-69323 Phoner: 0474- 264290	Dr. Balaramaniam C. Dr. New Annampura Mr. Sohrab Das	2020	2 years	Production and supply of Boron nitride nanoproduct	Order no: TBRO/SIS/38/19-20
62	DMC3-Etense simulations of main chamber recycling on ITR	ITER Organization Route de Villars sur Yverdon, CH 90146/13067 Saint Paul Les Douvains, France Tel: +334 424212412	Dr. Devendra Sharma	2021	1 year 4 months	Simulations for recycling of walls	Contract number -1021-CT-43003498 dated 03.06.2021
63	Feasibility study on surface activation of polystyrene using low pressure plasma	Dr. Jaykishan Parekh Project Manager Accounts Ltd. Devices Private Limited Plot No. 16, G.D.C. Electronic Park SEZ Kolkatada Road, Gambharia, SIKHO, Gujarat, India	Dr. Rinkamshai Rane Mr. Abhinav Vaid Mr. Anand Vaid Mr. Rameshchandra	2021	1 year	Plasma treatment on polystyrene samples for activation	GNS-0886/22 dated 09-09-2021
64	Radiation calculation support for protection working groups	ITER Organization Route de Villars sur Yverdon, CH 90146/13067 Saint Paul Les Douvains, France Tel: +334 424212412	Dr. Richard Jalilak Dr. Anup Agrawal Dr. P V Subhash	2022	1 year	Radiation calculations	Contract number - IO22CT-43000291 dated 02-02-2022
65	Design and Development of Anti-UV/Infrared Aerial Vehicle) system	SEER, DSTA & A.S. Turner Ground Floor Visant Square Mall Plot No. A/Convenience Centre Sector-B, Pockus S, Visant Road New Delhi 110070	Dr. Anup Prasad Yadav	2021	3 years	Development of anti UV system	File no: CRGI/303/09043 dated 19-07-2021
66	Development and validation of Artificial Intelligence Tool for Screening/detection of pulmonary TB	Indian Council of Medical Research, Ramalingaswami P.O. Box No. 4911 Anant Nagar, New Delhi - 110028, India Ph: 91-11-26088881 (9-11); 2608890, 91-11-26089794-91, 11-26089336, 91-11-26088707 E-mail: icmr@icmr.gov.in	Mr. Manish Shuman/ Mr. Abhishek Ramesh/ Abhishek Agrig	2022	1 year	Development of AI based software	File no: SRS/7/FTRCAT Tool Chest Key -2021 DEX1-1
67	Graphene Nano-diamond reinforced Ni/CoNi Nanocomposite Coatings: Substitute to Electroplated Hard	IT Patna	Dr. S. K. Ghosh, BARC, Prof. Arup	2021-2024	3 years	R&D	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
68	Ultrasonic dynamics of photocatalyst for CO2 reduction and hydrogen generation	Jawaharlab Naha Centre for Advanced Scientific Research (NCASAR)	Dr. Sushanta Nath	2021-2022	1 year	Understanding the mechanism of photocatalyst using time-resolved spectroscopy	https://www.nature.com/articles/s41467-021-21247-4 https://doi.org/10.1038/s41467-021-21247-4
70	Exciton dynamics in unique GeS quantum dots	IT Bombay	Dr. Sushanta Nath	2021-2022	0.5 year	Time resolved spectroscopy of GeS nanocrystals	https://pubs.rsc.org/en/article/doi/10.1039/D1TC00123G
71	Synthesis of papillo coriagates for electron imaging arrays	Dr. Roper, Dr. Arunam Bandhopadhyay, Department of Micro & Nano Technology	Archana Mahapatra , Jyotana Bhatt Dr. SURESH CHAWANWHE	2021-2022	1 year	Research and development	https://doi.org/10.1089/DMD.00180
72	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. SURESH CHAWANWHE	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
73	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. SURESH CHAWANWHE	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
74	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. SURESH CHAWANWHE	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
75	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. SURESH CHAWANWHE	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
76	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. SURESH CHAWANWHE	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
77	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
78	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
79	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
80	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
81	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
82	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
83	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
84	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
85	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
86	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
87	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
88	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
89	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
90	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
91	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
92	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
93	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
94	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
95	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
96	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
97	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
98	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
99	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
100	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
101	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
102	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
103	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
104	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
105	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
106	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
107	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
108	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
109	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
110	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
111	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
112	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
113	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
114	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
115	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
116	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
117	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
118	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
119	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
120	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
121	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
122	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
123	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
124	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
125	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
126	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
127	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
128	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
129	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
130	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
131	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
132	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	http://www.hbric.in/tagged/2021/03/03-3-4-IPRanna_sprae_Arup.pdf
133	Academic Collaboration	SEH O. S. Medical College, Patna	Dr. ANANTA MISHRA	2021	1 year	On the job training	

212	APS March Meeting (online)	American Physical Society, Chicago, USA	Fayaz Abdullah	2022	1 day	Online meeting	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
213	APS March Meeting (online)	American Physical Society, Chicago, USA	Suman Iyori De	2022	1 day	Online meeting	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
214	Ampelbos 2021	Niels Bohr Institute, Copenhagen, Denmark	Madh Abhisek	2021	5 days	Conference + Poster Presentation	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
215	Trends in String Theory and Related Topics	Harish Chandra Research Institute, Allahabad	Madh Abhisek	2021	1 day	Online meeting	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
216	Trends in String Theory and Related Topics	Harish Chandra Research Institute, Allahabad	Sachin Goswami	2021	1 day	Online meeting	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
217	Statphys-Kolkata XI (online) meeting	ISER Kolkata	Pranoy Mondal	2022	5 days	Online meeting	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
218	Statphys-Kolkata XI (online) meeting	ISER Kolkata	Santosh Subhra Baskin	2022	5 days	Online meeting	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
219	Statphys-Kolkata XI (online) meeting	ISER Kolkata	Debraj Bose	2022	5 days	Online meeting	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
220	Heide Colloquium School (IC2021), Online	ANU Creative Plaza Report Apoll Kagan	Anjan Kumar Barik	2022	5 days	School	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
221	VIRTUAL SCHOOL ON FLAVOR STRUCTURE OF THE STANDARD MODEL	Online	Anjan Kumar Barik	2022	13 days	School	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
222	Supersymmetry and Unification of Fundamental Interactions (SUSY 2021) - Online	Online	Anjan Kumar Barik	2021	5 days	International Conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
223	Asian Quantum Information Science Conference	Tokyo, Japan	Li Ganash Chandra	2021	4 days	Conference + Poster presentation	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
224	Quantum Information Processing 2022	California, USA	Chirag Srivastava	2022	5 days	Conference + Poster presentation	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
225	Quantum Information Processing 2022	California, USA	L. Ganash Chandra	2022	5 days	Conference + Poster presentation	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
226	Quantum Information Processing 2022	California, USA	Rishu Gupta	2022	5 days	Conference + Poster presentation	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
227	ICTD 2021	University of Geneva, Switzerland	Tanay Kanti Konar	2021	1 day	Conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
228	TiQaT 2021	University of Exeter, UK	Tanay Kanti Konar	2021	1 day	Conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
229	Annual Meeting of Astronomical Society of India	Annual Meeting of Astronomical Society of India	Susovan Mishra	2022	1 day	Annual Meeting	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
230	ICOP 2022 Presented a talk on "Quantum speed limits for information and coherence"	Online	Brij Mohan	2022	10 days	Conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
231	New observational windows on the high-scale origin of matter-antimatter asymmetry	Kaoli (PMU) (online)	Subhojit Roy	2022	1 day	Conference/Workshop	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
232	Hunting SUSY @ HL-LHC	ICTS TIFR (online)	Subhojit Roy	2021	1 day	Conference/Workshop	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
233	Anomalous 2021	ICTS Hyderabad	Subhojit Roy	2021	1 day	Conference/Workshop	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
234	Higgs 2021	ICTS Hyderabad	Subhojit Roy	2021	1 day	Conference/Workshop	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
235	ICNP 2021, CERN and IUPAP	Stony Brook University, Simons Center for Geometry and Physics	Subhojit Roy	2021	1 day	Conference/Workshop	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
236	Les Houches 2021 Summer School on Dark Matter (online)	online	Subhojit Roy	2021	1 day	Conference/Workshop	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
237	Gravitational Waves Probes of Physics Beyond Standard Model workshop, (Online)	online	Subhojit Roy	2021	1 day	Conference/Workshop	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
238	Summer School on Quantum Information and Quantum Technology (SQIT 2022)	online	Dhruv Srivastava	2022	1 day	Conference/Workshop	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
239	IV International Workshop on Interconnections between Particle Physics and Cosmology	University of Oklahoma, USA	Kajal Singh	2021	1 day	Workshop	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
240	42nd International Conference on Quantum Probability and Infinite Dimensional Analysis	India	Sohal	2022	1 day	International Conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
241	International Conference on Quantum Information and Foundations (ICQIF-2022)	India	Chirag Srivastava	2022	1 day	International Conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
242	International Conference on Quantum Information and Foundations (ICQIF-2022)	India	Kajal	2022	1 day	International Conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
243	Quantizing Time	Perimeter Institute	Abhishek Srivastava	2021	5 days	Conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
244	Vienna Quantum Foundation Conference 2021	IQOQI Vienna	Abhishek Srivastava	2021	4 days	Conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
245	(Online) Vector Bundles and Algebraic Curves (VBAC)	ICMAT, Spain (Virtual)	Umesh V Dubey	2021	1 day	Webinar	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
246	(Online) Vector Bundles and Algebraic Curves (VBAC)	ICMAT, Spain (Virtual)	Umesh V Dubey	2022	1 day	Webinar	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
247	Vector Bundles 2022	IFT, Mumbai	Umesh V Dubey	2022	2 months	Discussion Meeting	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
248	Tensor triangular (TT) geometry and homological residue fields. (online) Motivic homology	IFT, Roopnar	Umesh V Dubey	2021	1 day	Theory seminar	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
249	Functorial moduli construction of Gorenstein and K3s, Vector bundles 2022	IFT, Mumbai	Umesh V Dubey	2022	1 day	Discussion meeting	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
250	Braces in Braueret Bay (Virtual)	Brasnet Bay, UK (Virtual)	Mansi Kumar	2022	1 day	Regional meeting and Workshop	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
251	Emerging trends in pure and applied Mathematics	Jodhpur (Virtual)	Mansi Kumar	2022	1 day	Conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
252	Shape braces and solutions of the Yang-Baxter Equation, Emerging trends in pure and applied Mathematics	Taqur University, Taqur (Virtual)	Mansi Kumar	2022	1 day	Conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
253	Commutators in finite groups	ISER Bhopal (Virtual)	Mansi Kumar	2022	1 day	In House Symposium	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
254	"Elliptic curves and Special values of L-Functions" (online)	(Virtual)	Aaravind Pal	2021	6 days	ICTS workshop	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
255	On \mathbb{Z} -adic Galois representations and multivariable (ϕ, T) -modules" as Invited speaker in Annual Report	Virtual	Aaravind Pal	2021	1 day	Conference and invited lecture	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
256	L7th Discussion meeting in Harmonic Analysis	ISER Mohali (Virtual)	Priya Kanti Bhatnagar	2022	1 day	Discussion Meeting	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
257	Analysis and Probability seminar On Transition and Modulation Invariant Hilbert spaces	ISER Mohali	Priya Kanti Bhatnagar	2021	1 day	Seminar Talk	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
258	Analysis on singular spaces, Virtual conference	ISER Mohali (Virtual)	Priya Kanti Bhatnagar	2021	1 day	Conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
259	"Mathematical Analysis and Riemannian Geometry" (ISMAAG - 2021)	Bharath College of Engineering, Kodaikanal (Virtual)	Ravindranathan Thangadurai	2021	5 days	Conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
260	M. V. Subbarao Symposium on Number Theory, Online	ISER Pune (Virtual)	Ravindranathan Thangadurai	2021	5 days	Symposium	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
261	ICQINF 2021, Online, KSOB	Koshikode (Virtual)	Ravindranathan Thangadurai	2021	4 days	International Conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
262	Number Theory and Combinatorics	BRMVER, Bikaner	Ravindranathan Thangadurai	2021	2 days	Workshop	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
263	Elliptic curves and the special values of L-functions	ICTS (Virtual)	Kushal Bhownick	2021	1 day	Seminar Talk	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
264	"Rank of Elliptic Curves", (Online)	Harish Chandra Research Institute, Allahabad	Kushal Bhownick	2021	4 months	Seminar Series	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
265	"p-adic numbers, p-adic analysis and zero values"	Harish Chandra Research Institute, Allahabad	Kushal Bhownick	2022	4 months	Online course	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
266	Recent trends in mathematics (ICTRM)	CEETA, Hansraj College, University of Delhi, Delhi (Virtual)	Prinavishu Dhatrabarty	2021	1 day	International conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
267	Class Group of Number Fields and Related Topics (ICCFMRT - 2021, KSOB)	KSOB	Krishnakrishnan Chaudhary	2021	1 day	International Conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
268	Elliptic curves and the special values of L-functions (ONLINE)	ICTS (Virtual) Bangalore	Rishu Gupta	2021	1 day	Online talk	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
269	Modular Forms, An online conference in honour of Prof. B. Ramakrishnan's 60th birthday	Online	Rishu Gupta	2021	1 day	online conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
270	International Conference on Class Groups of Number Fields and Related Topics 2021	KSOM	Rishu Gupta	2021	4 days	International Conference	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
271	L7th Discussion Meeting in Harmonic Analysis, NISER, Bhubaneswar	NISER Bhubaneswar	Anup Kumar Maity	2022	4 days	Discussion Meeting	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
272	Braces in Braueret Bay, IMS Regional Meeting and Workshop	Sri Satsang University,	Nishant	2022	3 days	Regional meeting and Workshop	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
273	Online workshop on Group Theory 2022	Online	Nishant	2022	2 days	Online workshop	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf
274	L7th Discussion Meeting in Harmonic Analysis, Online	NISER Bhubaneswar	Uday Surendra Panat	2022	4 days	Discussion Meeting	http://www.hbarc.in/agar/2022/CI/m3-7-1/Annual_Report_H81.pdf