

List of finally accepted abstracts for presentation during PANE 2021 conference along with the mode of presentation:

Guideline for oral presentation:

Time slot for each oral presentation = **10 (8+2)** minutes. 8 minutes for presentation and 2 minutes for discussion.

Candidate must finish within 8 min time to be considered for **PANE Young Scientist Researchers Award**.

All oral presenters are requested to send their presentation in PPT format by email at **presentationpane@gmail.com** within **6th December, 2021 (Monday)**.

During email, presentation PPT file name should be the serial number given in the following list. Also in the subject of email please write "**ORAL serial No**". e.g. if your serial no is **01AC**, filename will be "**01AC**" & subject line will be "**ORAL 01AC**".

Guideline for poster presentation:

All poster presenters should send a video of 10 minutes duration (file size \leq 200 MB) describing their work by email at **presentationpane@gmail.com** within **6th December, 2021 (Monday)**.

Organizer will upload the video in the conference website for showcase during three days of conference. All participants may check the list of poster presentations and can watch online through conference website. There will be a session each day of conference where participants can post their question and the poster presenters will answer these queries.

If somebody is unable to make video then he/she may send a PPT (maximum 5 slides) describing his / her work by email at **presentationpane@gmail.com** within **6th December, 2021 (Monday)**.

However, for Young Scientist Researchers Award under poster category only video presenters will be considered.

During email presentation file (video) name should be the serial number given in the following list. Also in the subject of email please write "**POSTER serial No**". e.g. if your serial no is **03AC**, filename will be "**03AC**" & subject line will be "**POSTER 03AC**".

Sl. No.	Name of the participant	Affiliation (Name of your institution)	Designation	Abstract title	Mode of presentation
Astrophysics & Cosmology (AC)					
1AC	MRINMAY MEDHI	BHATTADEV UNIVERSITY	Research Scholar	Contribution of Proton Capture Reactions to the Abundances of Phosphorus and Sulfur in FGK Stars	POSTER
2AC	Dhruba Jyoti Gogoi	Dibrugarh University	Doctoral Researcher	Quasinormal modes of non-linear Electrodynamical Black holes in Rastall gravity surrounded by Dark Energy fields	POSTER
3AC	GARGI SEN	IIT Guwahati	P.Hd Research Scholar	Study of the standing shock in the accretion flow around KTN black-hole.	POSTER
4AC	SESHADRI MAJUMDER	Indian Institute of Technology, Guwahati	Research Scholar	Wide-band view of High Frequency QPOs of GRS 1915+105 in α -soften TM variability classes observed with AstroSat	POSTER
5AC	Jyatsnasree Bora	Dibrugarh University	Research scholar	Echoes of gravitational waves in GR with non-vanishing Lambda	POSTER
6AC	Jyatsnasree Bora	Dibrugarh University	Research scholar	Asteroseismology of strange star in GR with non-vanishing Lambda	POSTER
7AC	DEVA PRATIM MAHANTA	BHATTADEV UNIVERSITY	RESEARCH SCHOLAR	A STUDY ON IMPACT OF PROTON CAPTURE REACTION TO THE ABUNDANCES OF NEON, MAGNESIUM AND ALUMINIUM IN B-TYPE AND HgMn STARS	POSTER
8AC	KABITA DEKA	Tezpur University	Research Scholar	A study of the effects of histogram binning on the accuracy of finding flux distribution of X-ray Binaries	POSTER
9AC	Chayanika Chetia	Dibrugarh University	Research Scholar	A study on the effect of particle creation in the framework of Saez-Ballester theory of gravity	POSTER
10AC	SAMIK MITRA	IIT GUWAHATI	RESEARCH SCHOLAR	Steady-state analysis of General Relativistic Magnetohydrodynamics (GRMHD) accretion flows around black hole space-time	ORAL
11AC	Dr. Debika Kangsha Banik	Department of Physics, Barnagar College, Sorbhog, BARPETA, Assam	Assistant Professor	Λ CDM Model in Born Infeld $f(R)$ gravity in the background of Bianchi I Cosmology	ORAL
12AC	Moh Vaseem Akram	Jamia Millia Islamia	Research Scholar	Landau-Lifshitz pseudotensor in the presence of cosmological constant	POSTER
13AC	Dhruba Jyoti Gogoi	Dibrugarh University	Doctoral Researcher	Testing and Constraining a new $f(R)$ gravity model in Palatini formalism	POSTER
14AC	Barun Maity	NCRA-TIFR	Research Scholar	Efficient Modelling of Cosmic Reionization using SCRIPT	ORAL

15AC	Anshuman Baruah	Assam University	PhD Research Scholar	Traversable Wormholes in f(R) Gravity	POSTER
16AC	PARANGAM GOSWAMI	Assam University, Silchar	M.Phil Student	Traversable Wormholes in f(R) Gravity.	POSTER
17AC	BISWAJIT DEB	ASSAM UNIVERSITY	RESEARCH SCHOLAR	Inflation in f(R,T) gravity with Double-Well Potential	ORAL
18AC	Sabina Yeasmin	Assam University, Silchar	Ph.D. Research Scholar	Perturbation Spectra in Warm Chromo-Natural Inflation	POSTER
19AC	M Daniel Ranjan	Vellore Institute of Technology, Chennai	Research Scholar	Shadow of Rotating Charged Morris Thorne Wormhole	POSTER
Condensed Matter Physics and Material Science (CMPS)					
1CMPS	Molongnenla Jamir	NIT Nagaland	Research Scholar	Chitosan modified Fe ₃ O ₄ nanoparticles for hyperthermia application	ORAL
2CMPS	Dr. Uday Sankar Senapati	Handique Girls' College, Guwahati-781001	Assistant Professor	Structural, Optical and Antibacterial Properties of CdS Nanoparticles Prepared by Using Edible Oyster Mushroom Extract: A Green Synthesis Approach	POSTER
3CMPS	Bandana Gogoi	D.N. Govt. College, Itanagar	Assistant professor	Magnetization Dynamics of Iron Oxide Superparamagnetic Nanoparticles above Blocking Temperature	ORAL
4CMPS	V. Aravindan	Thiagarajar College of Engineering	Research Scholar	Ab-initio Study on the CoZrVIn Equiatomic Quaternary Heusler Alloy for Spintronic and Thermoelectric Applications	POSTER
5CMPS	MAMTA	CSIR-NPL	Research scholar	Synthesis, characterization and application of Sb ₂ Se ₃ in solar cells	POSTER
6CMPS	RAJAKANI V	Department of Physics, St.John's College, Palayamkottai, Tamilnadu- 627 002.	Research Scholar	Studies on the silver incorporated titania aerogel nanostructure as a photoanode in quasi solid Dye Sensitized Solar Cell	POSTER
7CMPS	KHUNDRAKPAM CHANCHAN DEVI	Department of Physics, Manipur University	Research Scholar	Concentration effect on the luminescent and structural properties of YPO ₄ : Eu ³⁺	POSTER
8 CMPS	SULTANA RIJUWANA HAQUE	GAUHATI UNIVERSITY	RESEARCH SCHOLAR	Optical and Structural Characteristics of PANI capped PbS nanoparticles	POSTER
9CMPS	THOUDAM BASANTA SINGH	DON BOSCO (AUTONOMOUS) COLLEGE, MARAM, SENAPATI - 795015, MANIPUR, INDIA	ASSOCIATE PROFESSOR	A comparative study on five different methods of analysis of complex thermoluminescence data: A short review	ORAL

10CMPS	Sakaray Madhuri	Jawaharlal Nehru Technological University	PhD Scholar	Sketchy synthesis of MnO ₂ , MnO ₂ /CNT, MnO ₂ /AC composites for application of/in Energy cache	POSTER
11CMPS	Dr. A. Joy Singh	S.K. Women's College, Nambol, Manipur	Assistant Professor	Effect on the conductivity of ZnO nanoparticle doped in PVC films	POSTER
12CMPS	SAsMARJIT SARMAH	Gauhati University	Research Scholar	Photoresponse performances of UV-visible photodetectors based on as-prepared and annealed ZnO-PS: p-Si heterostructure: a comparative study	POSTER
13CMPS	Pradhyut Rajkumar	Gauhati University	Research Scholar	Structure-optical property relationship of sputtered AgNP/ZnO ^{1/4} R heterostructure	POSTER
14CMPS	KONTHOUJAM PRIYANADA SINGH	national institute of technology, manipur	RESEARCH SCHOLAR	Study of electrochemical properties of LiFePO ₄ by varying H ₃ PO ₄ concentration and the LiFePO ₄ /zeolite composite	POSTER
15CMPS	Somas Singh Urikhinbam	National Institute of Technology Manipur	Research Scholar	Molecular dynamic simulation study of size polydispersed ionic liquid: effect on static properties	POSTER
16CMPS	Ningthoujam Joseph singh	National Institute of Technology Manipur	Research Scholar	Zeolite incorporated iron oxide nanoparticles for congo red dye adsorption	POSTER
17CMPS	Boris Wareppam	National Institute of Technology Manipur	Research Scholar	Zn Based Metal Organic Framework For Adsorption of Anionic and Cationic Dye	POSTER
18CMPS	Dr. Manjit Borah	Goalpara College	Assistant Professor	Structural, optical and frequency dependent dielectric properties of solid-state derived complex perovskite Na _{0.5} Bi _{0.5} TiO ₃ (NBT) nanostructured system	POSTER
19CMPS	FRANCIS IAWPHNIAW	Assam Don Bosco University	Research scholar	Noise assisted particle transport and particle diffusion in an under-damped inhomogeneous periodic potential system	POSTER
20CMPS	SUTAPA DEB	Dept. of Chemistry, Tripura University	Research Scholar	Incorporation of Bile-Salt and Laser Dye Using Layer by Layer self-assembled technique	POSTER
21CMPS	Utpal Sarkar	Tripura University	Research Scholar	First-principle investigation of structural, electronic and optical properties of hexagonal wurtzite Mg _x Zn _{1-x} Te ternary alloys	POSTER
22CMPS	Lisham Paris Chanu	Department of Physics, Manipur University	PhD Scholar	Study on structural and electrical transport properties of YMn _{0.9} Cr _{0.1} O ₃	POSTER
23CMPS	PALLABI BORO	GAUHATI UNIVERSITY	Ph D Research Scholar	Effect of variation of reaction time upon synthesized PVA/CdS/ZnS core/shell Nanoparticles	POSTER
24CMPS	DIPAK BARMAN	GAUHATI UNIVERSITY	RESEARCH SCHOLAR	Wide range tunability of surface plasmon resonance of nanostructured Ag deposited by off-axis magnetron sputtering	POSTER
25CMPS	TOIJAM SUMA CHANU	Manipur University, Canchipur, Imphal-795003	Research scholar	The influence of ZnO nanoparticles on the Structural, Optical and Dielectric properties of Polyvinyl Alcohol films	POSTER

26CMPS	Laishram Rashi Devi	Department of Physics, Manipur University	Research scholar	Structural and Optical Parameters of Sol-Gel Derived Barium Strontium Titanate (BST) Thin Film	POSTER
27CMPS	Elangbam Churchill Singh	Manipur University	Research Scholar	Structural and dielectrical analysis of rare earth doped Bismuth Ferrite Nanoparticle at high frequency	POSTER
28CMPS	SIJOY CHANDRA BORO	Gauhati University	Research Scholar	Crystallite size and band gap variation of tungsten trioxide dihydrate nanocrystals prepared under different conditions	POSTER
29CMPS	Lairellakpam Anju chanu	MANIPUR UNIVERSITY	RESEARCH SCHOLAR	UV light illuminated photodegradation of Malachite green dye using ZnO/CuO nanocomposites	POSTER
30CMPS	Pramod Kumar Shah	Assam University, Silchar	Research Scholar	A DFT study on the reactions of ruthenium anticancer drug KP1019 with DNA Bases	POSTER
31CMPS	Moirangthem Nara Singh	Dr. B Borooah Cancer Institute, Guwahati	Scientific Officer "D"	Studies on Electron Traps in NaI: Tl scintillating crystal by thermoluminescence	ORAL
32CMPS	Jnanraj Borah	Gauhati University	Research Scholar	Structural, optical and electrical properties of CuO nanostructures prepared by reactive DC magnetron sputtering	POSTER
33CMPS	Sonia Nambram	Manipur University	Research Scholar	Color tunable Gd ₂ O ₃ :Dy ⁺ nanophosphors under different excitation wavelengths	POSTER
34CMPS	KHURAIJAM JYOTSNA	Manipur University	PhD Scholar	Effect of Fe Substitution on the Properties of Sodium Bismuth Titanate	POSTER
35CMPS	Alpana Baidya	Department of Chemistry, Tripura University	Research Scholar	Unique aggregation pattern of Perylene Bisimide based U shaped liquid crystal of PBI-Se on Langmuir-Blodgett thin film.	POSTER
36CMPS	Laishangbam Chanu Sonia	Manipur University	Research Scholar	Study on structural, optical and magnetic properties of cobalt substituted magnetite nanoparticles for ferrofluid applications	POSTER
37CMPS	Patricia Mary Kharmawlong	North Eastern Hill University, Shillong - 793022	Research Scholar	Transport of a particle driven periodically in a time-varying friction	POSTER
38CMPS	Heisnam Nungshibabu Singh	Manipur University	Research Scholar	Analysis of LiF, Mg, Cu, P in the new general order kinetics	POSTER
39CMPS	SHOUGAIJAM ANJU DEVI	Department of Physics, Manipur University	PhD Scholar	Visible Light Driven Photocatalytic Activities of Metal Sulfides Synthesized by Simple Co-Precipitation Method	POSTER
40CMPS	Thoudam Vilip Singh	National Institute of Technology Manipur	Research Scholar	Size dependence of force extension behaviour in energy polydisperse polymers	POSTER
41CMPS	Ningthoukhongjam Kirtimala Devi	Presidency College, Motbung, Manipur	Assistant Professor,	Study of dielectric properties and ac conductivity of zinc ferrite synthesized by chemical coprecipitation	ORAL

			Department of Physics	technique.	
42CMPS	Sayantika Chanda	Tripura University	Research Scholar	Effects of doping of zinc and mercury composition-dependent opto-electronic properties of Cd _{1-x-y} Zn _x Hg _y S quaternary alloys: A First-principles investigation.	POSTER
43CMPS	K M S Dawngliana	Mizoram University	Research scholar	Optical basicity and electronic polarizability of Sm ³⁺ -doped silica glass prepared by sol-gel process	ORAL
44CMPS	Dr. Manisha Bajpai	Siddharth University	Assistant Professor	Frequency and composition dependent impedance analysis of PFO: MEH-PPV polymer blends	ORAL
45CMPS	Sajal Sahu	Ramchandrapur Raisuddin High School	Assistant Teacher	Microstructural, Structural and Peak Profile Analysis of Chemically Grown Bougainvillea Flower-like Zinc Oxide Nanostructures	POSTER
46CMPS	Dr S Sundaram	Nehru Institute of Technology, Coimbatore, Tamilnadu, India	Assistant Professor	THEORETICAL (DFT) INVESTIGATION ON HYDROGEN BONDED BINARY LIQUID CRYSTAL MIXTURE (4MCA:6OBA)	ORAL
47CMPS	Rimlee Saikia	Gauhati University	Research Scholar	Simulations on Ion assisted sputtering for silicon target	POSTER
48CMPS	Bishwajit Boruah	Dibrugarh University	Research Scholar	Can we have efficient molecular hydrogen adsorption on Mg clusters?	POSTER
49CMPS	Dr. Mousumi Bhuyan	Rangia College	Assistant Professor	Ion assisted damage studies on Tungsten for next generation fusion reactor	ORAL
50CMPS	Debankita Ghosh	Tripura University	Research Scholar	Structural and optoelectronic properties of cubic Zn _{1-x-y} Be _x Mg _y Se quaternary alloys nearly lattice matched to GaAs substrate: A density functional investigation	POSTER
51CMPS	Manish Debbarma	Tripura University	Research Scholar	First-principle study on thermoelectric properties of mercury-beryllium-chalcogenide for thermoelectric device applications	POSTER
52CMPS	Subhendu Das	Tripura University	Asst. Professor	Insight view of mechanical and thermodynamic properties of double perovskite Ba ₂ GdSbO ₆ from DFT calculations	POSTER
53CMPS	Sanghita Basak	Tripura University	Research Scholar	Analysis of single XRD peak of single crystal ZnS for microstructural study through single line Voigt method	POSTER
54CMPS	Dr. J. MARIN SAM GNANARAJ	SSN RESEARCH CENTRE, SSN COLLEGE OF ENGINEERING, KALAVAKKAM	POST DOCTORAL FELLOW	Extraction of Transition Metals from Furnace Dust and Facile synthesis of Metal Oxide nanoparticles for optical limiting applications	ORAL
55CMPS	RESHMA PERAYIL	S.N.POLYTECHNIC	PROFESSOR OF	QUANTUM SYSTEMS - A PEDAGOGIC	ORAL

		COLLEGE, KANHANGAD	PHYSICS	APPROACH	
56CMPS	ADHIKARIMAYUM DEEPAK SHARMA	MANIPUR UNIVERSITY, CANCHIPUR	Research Scholar	Structural, Optical, and dispersive parameters of (Gd, Mn) co-doped BiFeO ₃ thin film.	POSTER
57CMPS	Alok Kumar Das	Dibrugarh University	Research Scholar	Effect of deposition time on the structural and optical properties of CdSSe/PVA thin films prepared by chemical bath deposition technique	POSTER
58CMPS	MARLA PRASANTI	GITAM deemed to be University	Research Scholar	Approach with DFT for Non-Linear Optical Properties of Organic Molecular Complexes	POSTER
59CMPS	PRASANTH P	GOVERNMENT ENGINEERING COLLEGE, THRISSUR, KERALA	ASSISTANT PROFESSOR	DEFINING TEMPERATURE	ORAL
60CMPS	Rahul Bhattacharjee	Tripura University	ASSOCIATE PROFESSOR	A comparative DFT study of the impact of anionic variations on the thermoelectric properties of Pb _{0.25} Mg _{0.75} Y (Y = S, Se, Te).	POSTER
61CMPS	Hritinava Banik	Tripura University	Research Scholar	Transient WORM Memory Device Using Biocompatible Protamine Sulfate with Very High Data Retention and Stability	ORAL
62CMPS	Surajit Sarkar	Tripura University	Research Scholar	Indolyl Derivative: A versatile compound in memory applications.	POSTER
63CMPS	Ripa Paul	Tripura University	Research Scholar	Interaction of biomembrane and a coagulating agent	POSTER
64CMPS	Farhana Yasmin Rahman	Tripura University	Research Scholar	Resistive switching using biomaterials and its application towards Neuromorphic Computing	POSTER
Nuclear Physics and High Energy Physics (NPHEP)					
1NPHEP	Nayana Gautam	Tezpur University	PhD Student	Impact of texture zeros on leptogenesis within minimal inverse seesaw framework	ORAL
2NPHEP	Bichitra Bijay Boruah	Tezpur University	PhD student	Lepton flavor violation in flavor symmetric scotogenic model	POSTER
3NPHEP	Neelam Chetry	North Eastern Regional Institute of Science and Technology	Research Scholar	Intermolecular interaction study, Bioactivity score, Quantum chemical calculation and Spectroscopic study of L-Threonine in Polar Aprotic Solvent.	POSTER
4NPHEP	Tapashi Das	Madhab Choudhury College	Assistant Professor	Two and Three Loop Effects in the RMS radii of Heavy Flavored Mesons in a QCD Potential Model	ORAL
5NPHEP	Sangeeta Dey	COTTON UNIVERSITY	RESEARCH SCHOLAR	Symmetry realization of neutrino mass matrix with one vanishing minor and vanishing trace using Froggatt-Nielsen Mechanism	POSTER

6NPHEP	SAPAM GAYATRI DEVI	Department of Physics, Manipur University	Research Scholar	Quantum gravity effects on Hawking radiation of vector particles from rotating BTZ black hole	POSTER
7NPHEP	Mayengbam Kishan Singh	Department of Physics, Manipur University	Research Scholar	Minimal extension of seesaw mechanism in A4 symmetry and its phenomenological consequences	POSTER
8NPHEP	ANIMESH BARMAN	Tezpur University	Research Scholar	Non-zero θ_{13} , Deviation of Tri-bimaximal neutrino mixing and A4 discrete flavor symmetries	POSTER
9NPHEP	Nilavjyoti Hazaika	Gauhati University	Research Scholar	Dark matter phenomenology and Higgs vacuum stability in a Scotogenic extension of Inert Higgs Doublet Dark Matter Model	POSTER
10NPHEP	K.MOHAMMED MURTHUZA	GOVERNMENT ARTS COLLEGE,SALEM-636007, TAMILNADU,INDIA	RESEARCH SCHOLAR	Statistical Analysis of Natural Radioactivity Measurements for the Soil of Tiruvannamalai District, Tamilnadu, India	POSTER
11NPHEP	Pritam Das	TEZPUR UNIVERSITY	PHD	Dark matter in the Extended Hyperchargeless Higgs Triplet Model	POSTER
12NPHEP	Paramita Deka	Gauhati University	Research Scholar	Impact of Transverse Enhancement in neutrino oscillation measurements using NOvA	ORAL
13NPHEP	DHANMONI SAIKIA	University of Science and Technology,Meghalaya	student	A semi-analytical study of Earth's interior with the help of Ultra-High energy Neutrinos	POSTER
14NPHEP	Manoranjan Dutta	Indian Institute of Technology Hyderabad	PhD Student	Self-interacting Dark Matter via Right Handed Neutrino Portal	ORAL
15NPHEP	Khumanthem Helensana Devi	Manipur University	Scholar	Revisiting the mass degeneracy of neutrinos in the light of renormalisation	POSTER
16NPHEP	Amar Das	Gauhati University	Research Scholar	Investigation of fusion suppression and projectile breakup using classical trajectory method	POSTER
17NPHEP	Nabendu Kumar Deb	Department of Physics, Gauhati University, Guwahati-781014, Assam	Research Scholar	Subsisting oxidizing material and parting agent selection in the fabrication of nuclear target	POSTER
18NPHEP	Harun Al Rashid	Department of Physics, Gauhati University, Assam-781014	Research Scholar	Optical Model Analysis of $^6\text{Li}+^{40}\text{Ca}$ Using Double Folding and Wood-Saxon Potential	POSTER
19NPHEP	Maibam Ricky Devi	DEPARTMENT OF PHYSICS, GAUHATI UNIVERSITY	RESEARCH SCHOLAR	Pinpointing Octant of the atmospheric mixing angle, θ_{23} for a linear seesaw model under A_4 symmetry	POSTER
20NPHEP	ABDUL AZIZ	ASSAM UNIVERSITY, SILCHAR	RESEARCH SCHOLAR	Masses of heavy-flavoured Meson in a potential Model Approach with Wave Function containing $\text{Airy}^{1/3}$	POSTER
21NPHEP	Victoria Puyam	Manipur University	Research Scholar	Minimally modified A4 model for neutrino masses and mixings	POSTER

22NPHEP	DIPTIMONTA NEOG	North Eastern Regional Institute of Science and Technology	Research Scholar	A comparative study of some Parton Distribution Function sets	POSTER
23NPHEP	LAVINA SARMA	TEZPUR UNIVERSITY	PhD Student	Impact of one zero textures on baryogenesis in a flavor symmetric scotogenic model	POSTER
24NPHEP	JODIE T. RYNGNGA	NORTH EASTERN HILL UNIVERSITY	RESEARCH SCHOLAR	Covariance analysis of efficiency calibration of NaI(Tl) detector	ORAL
25NPHEP	T Thuamthansanga	Mizoram University	Research Scholar	Correlation of <i>in-situ</i> Online Generated $^{222}\text{Rn}/^{220}\text{Rn}$ Data With the Anomaly Period of a Distance Continuous Data as an Indirect Revelation To Geophysical Process of the Region	POSTER
26NPHEP	T Thuamthansanga	Mizoram University	Research Scholar	Correlation of <i>in-situ</i> Online ^{222}Rn Data at Mat Fault with Geophysical Phenomena	POSTER
Atmospheric Physics (AP)					
1AP	Jinee Gogoi	Dibrugarh University	Research Scholar	Ionospheric signatures associated with Sudden Stratospheric Warming (SSW) episodes over Okinawa	POSTER
2AP	Parminder Kaur	Tripura University	Research Scholar	SEM-EDX based morphological and chemical characterization of aerosols generated during wood burning	ORAL
3AP	JYOTIRMOY KALITA	Department of Physics, Tripura University	Ph.D. Research Scholar	Impact of Acedelia Strom Track (AST) in Martian Atmosphere during MY 33 and 34	POSTER
4AP	Joydeb Saha	Tripura University	Research Scholar	Global Climate Feedback Studies of Cirrus Reflectance, Specific Humidity in Relation with Lightning	POSTER
5AP	ROHIT GAUTAM	Dibrugarh University	Research Scholar	Interaction of radiation with atmospheric constituents and consequent dark heating of the atmosphere	POSTER
6AP	ARUP PATARI	ISWARCHANDRA VIDYASAGAR COLLEGE	ASSISTANT PROFESSOR	Influence of the remote celestial event like gamma ray burst GRB 190114C on the total electron content of the earth's ionosphere: A case study	POSTER
7AP	Angkita Hazarika	Dibrugarh University	Ph.D Scholar	Multi model predictability assessment of TEC during solar minimum around 100°E	POSTER
Atomic and Molecular Physics (AMP)					
1AMP	Lalruatpuia Ralte	Mizoram University	Research Scholar	Spectroscopic Studies of RhB Dye in Silica Matrix	POSTER
2AMP	Aravind	A.V. Abdurahiman Haji Arts & Science College (Affiliated to the University of Calicut)	Assistant Professor	Understanding the relationship between the two theorems: Virial and Equipartition	ORAL

3AMP	AMLAN JYOTI BORAH	DEPARTMENT OF PHYSICS, GAUHATI UNIVERSITY	RESEARCH SCHOLAR	Light from the firefly <i>Luciola praeusta</i> at very low temperatures	ORAL
4AMP	Chiging sonia	North Eastern Regional Institute of Science and Technology	Research scholar	DFT study on the structural and chemical properties of Janus kinase inhibitor drug Baricitinib	POSTER
5AMP	JYOTSHNA SAIKIA	North Eastern Regional Institute of Science and Technology (NERIST)	Research Scholar, Department of Physics	AMP-NERIST-JYOTSHNA	POSTER
Interdisciplinary Research (IR)					
1IR	ARCHANA BORA	Gauhati University	Asst. Prof	Application of Artificial Neural Network to determine the thickness profile of thin film samples	ORAL
2IR	SHYAM LOCHAN BORA	D.D.R. College, Chabua, Dibrugarh	Assistant Professor	Analysis of flood and drought years between 1901-2020 in seven Northeastern states of India	POSTER
3IR	D. ANGELINE SHIRMILA	QUEEN MARY'S COLLEGE (A), CHENNAI-04, TAMIL NADU, INDIA.	RESEARCH SCHOLAR	Synthesis, Structure determination, Hirshfeld surfaces and Energy frameworks analysis, and Molecular Docking studies of a chalcone derivative: (2E)-2-[(2,4-dimethoxyphenyl)methylidene]-3,4 dihydronaphthalen-1(2H)-one - a potential inhibitor of breast cancer activity	POSTER
4IR	NISHANTH P	Kannur University	Research Scholar	Physics of Edakka	POSTER
5IR	Dr. Jhuma Biswas	Pandu College	Assistant Professor	Effects of COVID-19 pandemic lockdown: A satellite data-based appraisal of air quality in Guwahati, Assam	ORAL
6IR	Aritrika Saha	Tripura University	M.Tech student	Water Quality Assessment Of Different Samples Collected From Various Locations Of Tripura University Campus And Selection Of Appropriate Point Of Use Water Purification Technology	POSTER
7IR	Thokchom Premkumar Meitei	National Institute of Technology Manipur	Research scholar	Transport properties of polydisperse hard sphere system	ORAL
8IR	Krishna Debnath	Tripura University (A Central University)	M.Tech Student	Effect of mechanical milling of fly ash powder on compressive strength of geopolymer	POSTER
9IR	Md. Jashim Uddin	Tripura University	Sr. Technical Assistant (Lab) and Research Scholar	Physico-chemical analysis and antioxidant properties of tinctures of <i>Diospyros melabarica</i> (Desr.) Kostel: A Preliminary Report	POSTER

10IR	Arindam Bhadra	Tripura University	M.Tech Student	Durability study of geopolymer synthesized from industrial waste	POSTER
11IR	REMLALSIAAMA	Mizoram University	Research Scholar	Assessment of Radon Content in Water of oil exploration areas Using Smart RnDuo in Mizoram, india	POSTER
12IR	Remlalsiama	Mizoram University	Research Scholar	Correlation between ground level Gamma Radiation and Radon gas concentration in soil at different baptism depth of oil exploration areas within Aizawl district of Mizoram, India.	POSTER
13IR	Nurul Alam Mazumder	National Institute of Technology Silchar	Reserarch Scholar	Amino functionalized coal fly ash: A green and efficient heterogeneous solid base catalyst for Knoevenagel condensation reaction	ORAL
14IR	Nurul A. Mazumder	National Institute of Technology Silchar	Research Scholar	Preparation of fly ash-Ag ₂ O nanoaggregates as highly capable photocatalyst for malachite green dye degradation under solar irradiation	POSTER
15IR	Dr. Sarangthem Nabadwip Singh	Oriental College (Autonomous), Takyel, Imphal, Manipu	Assistant Professor	Analysis of thermoluminescence of natural salt by simplified General One Trap differential equation.	ORAL
16IR	Soumyajeet Majumder	Tripura University	PG Student (Material Science and Engineering)	Ageing and corrosion behaviour study of 6061 Aluminium Alloy	POSTER
17IR	J.Hemalatha	Queen Mary's college(A), Mylapore, chennai-600004	Research Scholar	STRUCTURAL AND BIOLOGICAL CHARACTERIZATION OF A BIOMOLECULE: (3E)-3-(2,3,4-TRIMETHOXYPHENYL) METHYLIDENE) - 2,3-DIHYDRO-4H-1-BENZOPYRAN-4-ONE	POSTER
18IR	Aritrika Saha	Tripura University (Central University)	M.Tech Student	Comparative Review Of Inorganic Membranes By Sol-Gel Method For Water Purification	POSTER
Communication and instrumentation (CI)					
1CI	Deepa Das	Tripura University (Central University)	M.tech Student	A Comparative Review on the Application of Arduino for Gas & Water Sensing	POSTER
2CI	Deepa Das	Tripura University(Central University)	M.Tech student	Arduino Microcontroller Based Sensor for Effective Drinking Water Monitoring	POSTER
3CI	TANMOY DEBNATH	TRIPURA UNIVERSITY	M.TECH (PG STUDENT)	A Review on the 5 Channel WDM System Transmitting PAM-4 Signal in Long Haul Optical Fiber Communication	POSTER
4CI	Tiasha Shome	Tripura University	Pursuing M.tech	Design of an optical X-NOR gate using micro-ring	POSTER

				resonator	
5CI	Anindita Bhattacharjee	Tripura University	Research Scholar	Design of a compact UWB MIMO-Diversity Antenna for wireless communication application	POSTER
6CI	Mispaur Rahaman	Tripura University (A central University)	PG Student	Implementation of Optical Subtractor using Micro Ring Resonator loaded Machâ€Zehnder Structure	POSTER
7CI	Manthan Ghosh	Tripura University	M.Tech PG Student	Benchmarking of Representative DNN Architectures for Detection of Various Types of Optical Noise	POSTER
8CI	Suman Debnath	Tripura University	PhD Scholar	ML Based Modulation Format Identifier using K-NN Algorithm	POSTER
9CI	Jiban Saha	Tripura University	Student	Implementation of Wireless communication Using (HC-05) Bluetooth Module With MATLAB GUI	POSTER
10CI	Baishali De	Tripura University	Student	Arduino based RF Compact Module for Short Range Wireless Communication using nRF24L01	POSTER