

List of selected ORAL / POSTER

Venue: University Conference Hall, Opposite to the Department of Botany, University of Delhi, Delhi

Topics:

T1: General Relativity and Quantum Cosmology, Celestial Mechanics

T2: Nuclear and High Energy Physics– Theory and Experiment

T3: Soft Matter Science, Bio-electronics, Photonics, Bio-sensing, MEMS and NEMS, Strongly Correlated Electron System (SCES) and Holographic Duality

T4: Applications of:

Multifunctional and Composite Materials

Nanomaterials

Topological Material

Quantum Information and Computing

Quantum Entanglement

Artificial Intelligence

Nonlinear Optics

Spintronics

Nonlinear Photonics and Plasmonic

Nonlinear Dynamics (Chaos and Fractals)

T5: Physics -Technology-Industry Connect/ Physics Education/ Physics-Society Connect/ Renewable Energy Technology

S. No.	Author's Name and Email Id	Author's Affiliation	Title of the abstract	Sorting No. list	Opted number	ORAL / POSTER Assigned
1	N. Saini nirmala.saini@mirandahouse.ac.in	Department of Physics, Miranda House, University of Delhi, Delhi-110007	Nonlinear Photonics and Plasmonic Optical image encryption with a biometric security layer	T4/401	O1	ORAL
2	Anju Dahiya dahiyarinku1@gmail.com	Department of Physics and Astrophysics, Delhi	Specific heat and susceptibility calculation in non-zero magnetic field of PNJL model	T2/201	P1	POSTER
3	A. K. Sisodiya aksisodiya@yahoo.co.in	Department of Physics, Motilal Nehru College, University of Delhi New Delhi – 110021	Clustering of Quarks and Diquarks in Quark-Gluon Plasma and their Interaction Energies	T2/202	P2	POSTER
4	S. Shankar shankar3274@gmail.com	Department of Physics, ARSD College, University of Delhi, New Delhi 110021, India	Multifunctionality in BaTiO ₃ -CoFe ₂ O ₄ bulk composite	T4/402	O2	ORAL
5	Dr. G. Singh gsingh6@amity.edu	1.Department of Applied Physics, AIAS, Amity University, Noida, India 2.Department of Physics, Kent State University, Ohio, USA	X-ray scattering and optical microscopy of oblique chiral nematic in the mixtures of odd and even achiral cyanobiphenyl dimers	T3/301	O3	ORAL
6	Daljeet Kaur daljeet.kaur97@gmail.com	1S.G.T.B. Khalsa College, University of Delhi, Delhi, 110007 2Department of Physics and Astrophysics, University of Delhi, Delhi, 110007	Independent Measurement of neutrino and anti-neutrino oscillations at atmospheric and Longbaseline experiments	T2/203	P3	POSTER
7	Jeeban Gewali gewali_phys@yahoo.co.in	Department of Physics, Lovely Professional University, Punjab-144411	Energy loss and heavy ion ranges of ⁹³ Nb in Aluminum	T2/204	P4	POSTER
8	Anju Gupta	Department of Physics, Rajdhani	Variations in mid	T5/501	O4	ORAL

	anju.gupta.du@gmail.com	College, University of Delhi	tropospheric carbon dioxide, temperature & water vapour using satellite data during 2003-2011			
9	Ankush Thakur ankush9888@gmail.com	Department of Physics, Lovely Professional University, Phagwara, India	Preparation and structural analysis of magnetic nanoparticles using gel to crystallization	T4/403	P5	POSTER
10	Sraja Chauhan ajay_phy@rediffmail.com	Department of Physics, Banasthali Vidyapeeth, Banasthali, Tonk, Rajasthan, 304022	A First-Principle study of single walled carbon nanotube (5,0) based single electron transistor	T4/404	P6	POSTER
11	A. D. Majumdar nehamunjalphy@gmail.com	Lovely Professional University, Punjab	A first principle investigation of structural properties of XH compounds	T4/405	P7	POSTER
12	Dr. Neha Munjal Nehamunjalphy@gmail.com	Lovely Professional University, Punjab	Theoretical study of In x B 1-x N via first principle calculations	T4/406	P8	POSTER
13	R. Ramesh nagabandi.jay@gmail.com	Thin films and nanomaterials lab Osmania University	Development of room temperature ammonia gas sensor using Fe ₂ O ₃ -NiO Nanocomposites	T4/407	O5	ORAL
14	Barsha Borgohain	PhD Research Scholar NPL, New Delhi	Consequences of Annealing on the	T4/408	P9	POSTER

	borgohain@gmail.com		Electrical Transport, Magnetic Phase Coexistence and Spin Glass Behaviour of Ni ₄₃ Mn ₄₀ Cr ₃ Sn ₁₄ Ribbons			
15	Dr. Manish Kumar manishphy2007@gmail.com	Assistant Professor Dept. of Physics ARSD College, University of Delhi, Dhaura Kuan, New Delhi-110021	Multiferroic Properties of BiFeO ₃ -BaTiO ₃ Solid Solutions	T4/409	O6	ORAL
16	Dr. Vivek Kumar Verma vivekverma@hinducollege.ac.in	Assistant Professor Department of Physics Hindu College, University of Delhi	Modification in Multiferroic properties of BFO by site-engineering and an anomalous ferroelectric and magnetic behavior in BPFO-NZFO multiferroic nano- composites	T4/410	O7	ORAL
17	Dr. Tamal Kumar Mukherjee tamalkumar.mukherjee@adamasuniversity.ac.in	Department of Physics, Adamas University, Barasat - Barrackpore Rd, Kolkata, West Bengal – 700126	Role of Chiral vortical effect in magnetic field evolution in the early Universe	T1/101	O8	ORAL
18	Dr. A. K. Rai	Department of Applied Physics, Sardar Vallabhbhai National	Magnetic and the decay properties of 1S strange	T2/205	O9	ORAL

	raiajayk@gmail.com	Institute of Technology, Surat, Gujarat, 395 007	charmed meson with $J P = 1 -$			
19	Keval Gandhi raiajayk@gmail.com	Department of Applied Physics, Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat, 395 007	Analyse the non-leptonic weak decays of baryon	T2/206	P10	POSTER
20	Harjinder Singh harjinder04mphil13@gmail.com	Crystal Growth and Material Research Laboratory, Department of Physics, University of Jammu, Jammu 180006, India	Growth, structural, optical and thermal properties of lanthanum chloride coordinated with salicylic acid complex	T4/411	P11	POSTER
21	Samiksha Dabas samikshadabas@gmail.com	Netaji Subash University Of Technology, Azad Hind Fauz Marg, Sec 3, Dwarka, Delhi 110078	Investigation on Microstructural and Ferromagnetic properties of Mn Modified Multiferroic BiFeO ₃	T4/465	P12	POSTER
22	Dr. Gaurav Karnatak gauravkarnatak2009@yahoo.in	Department of Physics, Kumaun University S. S. J. Campus, Almora- 263601(Uttarakhand) India	Quaternionic Gauge Theory and Unification of Fundamental Interactions	T2/207	P13	POSTER
23	Fazlay Ahmed fazleyamuphysics@gmail.com	Research Scholar Centre for Theoretical Physics Jamia Millia Islamia New Delhi-110025	Thermodynamics of regular black hole and entanglement entropy	T1/102	P14	POSTER
24	P. K. Sethi psethy@gmail.com	Department of Physics and Astrophysics, University of Delhi,	Effect of magnetic field on dilepton production in	T2/208	O10	ORAL

		New Delhi-110007, India	heavy ion collision			
25	Prachi Chaudhary pch2496@hmail.com	Material Analysis & Research Lab, Department of Physics, NSUT, New Delhi, 110078	Structural and Microstructural Analysis of SNO-CFO Composites	T4/412	P15	POSTER
26	Dr. Pushali Trikha pushali.trikha@gmail.com	Department of Mathematics, Jamia Millia Islamia, New Delhi-110025	Compound Difference Anti-Synchronization Between Integer And Fractional Order Chaotic Systems	T4/413	O11	ORAL
27	Nasreen nasreen899@gmail.com	Department of Mathematics, Jamia Millia, Islamia, New Delhi-110025	Synchronization of fractional order complex chaotic systems with uncertainty and disturbances via adaptive sliding mode control technique	T4/414	O12	ORAL
28	Ashish Kumar Mall mall2011iitb@gmail.com	Materials Science Programme, Indian Institute of Technology Kanpur, Kanpur 208 016, India	Structural and Electrical Properties of Orthorhombic Ca-Doped YCrO ₃ Ceramics	T4/416	P16	POSTER
29	Ila Joshi ilajoshi0090@gmail.com	Department of Physics, L. S. M. Govt. P.G. College, Pithoragarh, Uttarakhand	Electromagnetic Wave Equations of Dyon	T2/209	P17	POSTER
30	Uzma Nigar uzmanigarkhan@gmail.com	Research Scholar, Department of Mathematics, Jamia Millia Islamia	Dual combination anti synchronization scheme	T4/417	O13	ORAL

			for non identical fractional order chaotic system different dimensional			
31	Tanvi tanvihrc@gmail.com	Department of Maths, University of Delhi	Dynamics of HIV-TB co-infection with Holling Type-II treatment rate	T4/418	O14	ORAL
32	Rani Vaid raneevaid@gmail.com	Bal Bharati Public School , Sector-21 , GautamBudh Nagar , Noida , UP.- 201301, India	A Study On Technology Enabled Experimental Physics Skill Development among Senior Secondary School	T5/502	P18	POSTER
33	M. Meena	RMK Engineering college, Tamilnadu	Transcendental artificial intelligence	T4/420	P19	POSTER
34	S. S. Narayanana shankar334@gmail.com	IILM greater Noida	Investigation on the thermophysical properties of a composite material.....Nanographite	T4/421	P20	POSTER
35	Gagan Sharma gsharma2@amity.edu	Amity University, Noida	Study of Fe film....heavy metal (Ta)	T4/422	P21	POSTER
36	Sonali Mehra sonalimehra.2608@gmail.com	Acsir Gaziabad	Effect of fuel....combustion method	T4/423	P22	POSTER
37	Vinay Kumar vkumar@zh.du.ac.in	ZHC, DU	Unvelling the convergence.....Newton-Rapson Method	T4/424	O15	ORAL
38	Rameez Ahmad Parra	Department of physics Jamia Millia Islamia New Delhi-25	Transport properties of Quark-Gluon Plasma in	T2/224	P23	POSTER

	rameezparra@gmail.com		re-running coupling			
39	J.P. Gewali gewali_phys@yahoo.co.in	Department of Physics, Lovely Professional University, Pin code - 144411, India	Thermodynamic property of Liquid ^3He using electron bubble concept	T3/302	P24	POSTER
40	Poonam Jain poonam.jn1@gmail.com	Amity, Noida	Prediction of band head spin....nuclei	T2/210	O16	ORAL
41	Manohar Singh manoharsingh@rajdhani.du.ac.in	Rajdhani College	Study of optical properties....substrate	T4/425	O17	ORAL
42	Preeti Chug cndrskr@gmail.com	Department of Applied Physics, Amity University, Haryana	Synthesis, Structural and Raman investigations of $\text{PbNi}_{1/3}\text{Nb}_{2/3}\text{O}_3$ Ceramics	T4/426	P25	POSTER
43	Alesh Kumar aleshkumar90@gmail.com	Department of Physics, National Institute of Technology, Kurukshetra 136119, India	Synthesis, Characterization and Bioactivity of Mesoporous Silver Doped Soda-lime Borosilicate Glass-ceramics	T4/427	O18	ORAL
44	Manoj Kumar	Department of Instrumentation, Bhaskaracharya College of Applied Sciences, Dwarka, Sector-2, New Delhi	Design of high extinction ratio TM pass polarizer using graphene based waveguide structure	T4/428	O19	ORAL
45	Tarundeep Kaur Lamba hlamba81@gmail.com	Department of Applied Physics, AIAS, Amity University, Noida, India	Impact of metal and metal oxides nanoparticles on display	T3/303	P26	POSTER

			parameters of liquid crystals			
46	Nandini Sharma nandni6587@gmail.com	Applied Sciences Department, PEC University of Technology, Chandigarh 160012, India	Impedance and Structural Studies of Co-Doped GaFeO ₃ Ceramic	T4/429	P27	POSTER
47	Dr. U. Sasikala sasi2483@gmail.com	Associate Professor, Department of Physics, VEMU Institute of Technology, Chittoor, AP, India	Effect of plasticizer on structural, electrical and Discharge Characteristics of NaIO ₄ complexed (PEO+PEMA) polymer blend electrolyte	T3/304	O20	ORAL
48	Deependra Singh Rawat dsrawatphysics@kunainital.ac.in	Department of Physics (UGC-Centre of Advanced Study), Kumaun University, Nainital	Color dielectric properties of dual QCD vacuum and confinement	T2/212	O21	ORAL
49	K. R. Nandan nandan88.kr@gmail.com	Jain University School of Engineering and Technology JGI Bangalore	High and low temperature CaMnO ₃ Structural and Electrical properties prepared by sol-gel method	T4/430	P28	POSTER
50	Dr. Sambhunath Bera sbera@amity.edu	Amity Centre for Spintronic Materials Amity University, Sector 125, Noida, UP, 201313	Evidence of Co diffusion into Alq ₃ : X-ray reflectivity study	T4/431	P29	POSTER
51	S. S. Hooda sukuhooda@gmail.com	Department of Physics A.I.JAT H.M. College, Rohtak-124001Haryana (India)	EPR Spectroscopy and Superposition-Model analysis for the correlation of zero-field splitting parameters and site	T3/305	P30	POSTER

			distortion of Mn ²⁺ in Zn(ClO ₄) ₂ ·6H ₂ O single crystals			
52	Asha Dahiya ashadh8@gmail.com.	Department of Applied Sciences, Bharati Vidyapeeth's College of Engineering, New Delhi, 110063.	Effect on different properties of KNN with microwave sintering	T5/504	P31	POSTER
53	Dr. Shish Pal Rathee sprathee.jcr@gmail.com	Assistant Professor, Department of Physics All India JatHeros Memorial College, Rohtak - 124001 (Haryana) India	Enhancement in crystalline perfection, optical, mechanical and nonlinear properties of L-Alanine Strontium Chloride trihydrate single crystal	T4/432	P32	POSTER
54	Ms. Neeraj Rathee neenajaggi12@gmail.com	Department of Physics National Institute of Technology Kurukshetra Haryana India	Investigation of structural and optical properties Eu doped Cadmium Selenide Quantum dots	T2/213	P33	POSTER
55	Dharm Veer Singh veerdsingh@gmail.com	Centre for theoretical physics, Jamia Millia Islamia, New Delhi, Postal Code 110025	Entropy of BTZ black holes with nonlinear electrodynamics	T1/103	P34	POSTER
56	Neha Batra nehabatra04@gmail.com	Department of Physics, Hindu College, University of Delhi, Delhi 110007, India	Sputtered Al:ZnO matrix for fabrication of urea biosensor	T3/306	O22	ORAL

57	Seemin Rubab rubab@nitsri.net	Department of Physics, National Institute of Technology, Hazratbal, Srinagar, Jammu and Kashmir, 190006	Use of Modelling clay and toothpicks as teaching aid for visualization and active cooperative Learning in Vector Analysis	T5/505	P35	POSTER
58	Chirag Malik chiragmalik525@gmail.com	Department of Physics & Astrophysics, University of Delhi, New Delhi 110007, India	A study of thermoluminescence and Photoluminescence Properties of potassium calcium phosphate doped with Dy	T4/433	O23	ORAL
59	Korolkov Ilya lunka7@mail.ru	The Institute of Nuclear Physics, Astana, 010008, Kazakhstan	Functionalization of ferromagnetic nanotubes	T4/434	P36	POSTER
60	Shumskaya Alena lunka7@mail.ru	The Institute of Nuclear Physics, Astana, 010008, Kazakhstan	Au – Ni nanotubes	T4/435	O24	ORAL
61	Pankaj Kumar Tripathi pankajtripathi19@gmail.com	Division of Research and Development, Lovely Professional University, Jalandhar-Delhi GT Road, Phagwara-144411, Punjab, India	Enhanced Optical Birefringence, Dielectric Permittivity and Molecular Alignment of Liquid Crystal with the suspension of Ferric Oxide Nanoparticles	T4/436	O25	ORAL
62	Victoria Bundyukova	Scientific and Practical Materials	Shape-Controlled	T4/437	P37	POSTER

	victoria.bundyukova@gmail.com	Research Centre of NAS of Belarus, 220072, P.Brovka str., 19, Minsk, Belrus	Growth of Gold Nanostructures in Limited Volume of Ion-Track SiO ₂ /Si Template Pores			
63	P. K. Chakraborty sspbkc23@gmail.com	Dept. of Electronic and Electrical Communication Engineering, IIT Kharagpur	Exact Calculations of Fermi Integrals and Einstein Relation in Non-degenerately Doped Semiconductors Exhibiting Novel Non-linear Variations	T4/438	O26	ORAL
64	K. A. Mistry ketki2009@yahoo.com	Department of Physics Navyugv Science College Surat, Gujarat, India	EDAX, XRD and SEM of Hydroxyapatite Synthesized by Wet Chemical Precipitation	T4/439	P38	POSTER
65	Shobhit Sachan shobhitsachan@gmail.com	Faculty of Physical Sciences, Shri Ramswaroop Memorial University, Lucknow Dewa Road, Uttar Pradesh, India	Dependence of entropy of a BTZ black hole on the degrees of freedom	T2/214	P39	POSTER
66	Bhavneet Kaur bhavneet.lsr@gmail.com	, Assistant Professor, Department of Mathematics, Lady Shri Ram College for Women, University of Delhi, Delhi, India	On the existence and linear stability of the equilibrium points in the robes-finite straight segment framework	T4/486	O27	ORAL
67	Abhishek Parida	Theoretical Physics, JMI	Component separation of a Isotropic Gravitational Wave Background	T1/104	P40	POSTER
68	Varsha	Department of Physics and	Excitonic transitions in a	T4/440	P41	POSTER

		Astrophysics, University of Delhi, Delhi-110007, India	spherical Quantum dot modified by Kratzer potential in magnetic field			
69	Bhaduri ayana.bhaduri@gmail.com	Department of Applied Physics, Amity University Haryana, Gurgaon122413 INDIA	Study of Solar Cell Surface Parameters Using 3d Optical Microscopy	T5/506	P42	POSTER
70	Abdul Quddus abdulquddusphy@gmail.com	Department of Physics, Aligarh Muslim University, Aligarh- 202002, India	Effective Surface Properties of Pb Isotopes	T2/215	P43	POSTER
71	Alka Garg alkagargi67@yahoo.com	Department of Physics, Gargi College, University of Delhi, Siri Fort Road, New Delhi-110049	Research based Pedagogical Tools for Effective Physics teaching	T5/507	O28	ORAL
72	Kranti S. Khairnar sanjay@physics.unipune.ac. in	Microtron Accelerator Laboratory, Department of Physics, SavitribaiPhule Pune University, Pune– 411007, India	Use of TiO ₂ nanotube arrays with sandwich structure on Nickel for betavoltaic nuclear battery	T2/216	P44	POSTER
73	Kushmakshi dsverma@cuhimachal.ac.in	Department of Physics and Astronomical Science, Central University of Himachal Pradesh, Dharamshala, District Kangra, (H.P.)-176215, INDIA	Fusion-evaporation and fusion-fission events in the decay of hot and rotating compound nucleus ⁸⁸ Mo*	T2/217	P45	POSTER
74	Lakshita Phor lakshitaphor01@gmail.com	Department of Physics, Deenbandhu Chhotu Ram	Self-cooling by ferrofluids in magnetic	T4/441	P46	POSTER

		University of Science and Technology, Murthal, 131039, Haryana, India	field			
75	Neeraj Bangruwa debabrata.iit@gmail.com	Department of Physics and Astrophysics, University of Delhi, New Delhi, 110007, India	Charge Transfer Through Self-Assembled Monolayer of Butanethiol on Gold and Nickel Substrate	T3/308	P47	POSTER
76	Pooja Seth drpoojaseth@gmail.com	University School of Basic and Applied Sciences, GGS Indraprastha University, New Delhi, India	Investigation of stimulated luminescence of rare earth doped LiF nanophosphor for radiation dosimetry application	T4/442	P48	POSTER
77	Sarita Yadav saritajnu@gmail.com	Physics Department, University of Allahabad, Prayagraj, Uttar Pradesh-211002	Low Operating Organic Inverter Based on Small Organic Molecules	T5/508	P49	POSTER
78	Tabassum Naz tabasum.rs@amu.ac.in	Department of Physics, Aligarh Muslim University, Aligarh-202002, India.	Applications of RHB in neutron rich nuclei	T2/218	P50	POSTER
79	Tasleem Ahmad Siddiqui tasleemahmad038@gmail.com	Department of Physics, Aligarh Muslim University, Aligarh, UP - 202002, India	RHB calculations for investigating decay series of $^{292}\text{120}$	T2/219	P51	POSTER
80	Urvashi Arya	Department of Physics, Dyal Singh College, University of Delhi, Delhi-110003, India	Influence of orienting pulse on alignment of molecule due to ultrashort pulsetrain.	T2/220	P52	POSTER
81	Sumana Devi sumana.devi@mirandahous	Department of Physics and Astrophysics, University of Delhi,	Rovibronic Thermal Behaviour of Adsorbed	T3/309	P53	POSTER

	e.ac.in	Delhi, 110007	Molecule in External Fields			
82	G. Anjum ganjum.khan@gmail.com	Department of Physics, SP College, Srinagar, J&K, India	Electronic Structure Studies of Mn doped $\text{La}_{0.8}\text{Bi}_{0.2}\text{FeO}_3$ Multiferroic Thin Film Using NEXAFS	T4/443	P54	POSTER
83	F.H. Bhat fhbha@gmail.com	Department of Physics Islamic University of Science & Technology, Awantipora, J&K, India-192122	Cobalt Induced Modification in Magnetic Properties of $\text{NdMn}_{1-x}\text{Co}_x\text{O}_3$ ($0.2 \leq x \leq 0.3$)	T4/444	P55	POSTER
84	Monika Sharma fhbha@gmail.com	Special Center for Nanoscience, Jawaharlal Nehru University, New Delhi, India.	Annealing temperature effects on NiO/ITO hetero-junction diodes for transparent electronics	T4/445	P56	POSTER
85	P. Jain poonam.jn1@gmail.com	Institute of nuclear science and Technology, Amity	Prediction of level scheme.....K = 0 band	T2/221	P57	POSTER
86	Pooja Devi	Department of Physics and Astrophysics, Delhi University	In-situ grown.....electrode materials	T4/446	P58	POSTER
87	Savita Sharma drguptavinay@gmail.com	Department of Physics and Astrophysics, Delhi University	Growth of BFO/BTO.....applications	T4/447	O29	ORAL
88	Shiva Lamichhane drguptavinay@gmail.com	Department of Physics and Astrophysics, Delhi University	Role of Laser.....thin films	T4/448	O30	ORAL

89	A. Mishra amodinipysics@gmail.com	School of Physical Sciences, Jawaharlal Nehru University, New Delhi, 110067, India	The Analysis of Charge Transfer Dependent Organic Pollutant Removal Capacity in Magnetite-Graphene Oxide Nanocomposites	T4/449	O31	ORAL
90	Vinay kumar	Zakir Hussain college , delhi University	Evolution of Basin and Existence of Fractal Basin	T4/450	P112	POSTER
91	Hera Tarique raghvendra@arsd.du.ac.in	Department of Physics, A.R.S.D. College, University of Delhi, New Delhi-110021	Study the Phase stability and Electrical conductivity of Potassium doped Strontium Silicate ($Sr_{1-x}K_xSiO_3-0.5x$) as Solid Electrolyte for IT-SOFC	T4/451	P59	POSTER
92	Agam K. Jha	Department of Physics, Kirori Mal College, University of Delhi, Delhi - 110007, India	Quark-Gluon Plasma (QGP) phase transition under a model density of states for Quarks and Gluons in a QGP droplet during URHIC	T2/222	O32	ORAL
93	Ram Datt drvinaygupta@netscape.net	Advance Materials and Devices Division, CSIR-National Physical Laboratory, Dr. K. S. Krishnan Marg, New Delhi, 110012, India.	Comparative Study of PTB7:PC ₇₁ BM Based Polymer Solar Cells Fabricated Under Different Environments	T5/509	P60	POSTER
94	Charita Pant	Department Of Physics, DSB	3-D study of the	T1/105	P61	POSTER

	pantcharita94@gmail.com	Campus K.U. Nainital, Uttarakhand, 263001	thickness of current sheet and reconnection time for collisionless magnetic reconnection in solar corona			
95	Rakesh geeta.bhatt@bcas.du.ac.in	Department of Instrumentation, Bhaskaracharya College of Applied Sciences, Dwarka, Sector-2, New Delhi	Enhancement of sensitivity in ZnO based refractive index sensor	T4/452	O33	ORAL
96	Lone Seth Jahanzaib lone.jahanzaib555@gmail.com	Department of Mathematics, Jamia Millia Islamia, New Delhi-110025	Combination Difference Synchronization Between Generalized Lotka Volterra Chaotic Systems	T5/511	O34	ORAL
97	Dr. Avnish P. Singh avanishpratap@gmail.com	Department of Physics, Atma Ram Sanatan Dharma College, University of Delhi, Delhi – 110 021 (India)	Investigations on the Microwave Shielding Properties in new exotic carbon: polymer/ Portland cement composites	T3/310	O35	ORAL
98	Divya Rehani divyarehani@gmail.com	Dr. A.P.J. Abdul Kalam Technical University, Lucknow-226031	Room Temperature Optical and Magnetic properties in 3% Fe doped ZnO	T4/453	P62	POSTER
99	Manoj Kumar Srivastava manojk.sri2006@gmail.com	Deshbandhu College, University of Delhi, Kalkaji, New Delhi-110019, India	Enhancement in Magnetoresistance and TCR with Sm ³⁺ doping in Spray Pyrolysis	T3/311	P63	POSTER

			Deposited Manganite Films			
100	Nidhi Sheoran vinod.phy@dcrustm.org	Department of Physics, Deenbandhu Chhotu Ram University of Science and Technology, Murthal 131039, Haryana, India	Investigation on structural, optical, magnetic and dielectric properties of yttrium doped multiferroic BiFeO ₃ nanoparticles.	T4/454	P64	POSTER
101	Jagdees Prasad jagdeesphysics@gmail.com	School of Physical Sciences, Jawaharlal Nehru University, New Delhi-110067, India	Gadolinium-doped MoS ₂ -rGO nano- composite for improved EM wave absorption performance and shielding capacity	T4/455	P65	POSTER
102	Amit Sharma draksharma5477@gmail.co m	Department of Applied Sciences, Bharati Vidyapeeth's College of Engineering, A4 Paschim Vihar, New delhi-110063.	Interaction of Laser Dye with Nanoparticles: A Review	T4/456	P66	POSTER
103	Pooja Verma	Researcher, IASE, Faculty of Education, New Delhi-110025	ICT Based Assessment in Physics	T5/512	P67	POSTER
104	Bhupender Singh bhupenderrawat789@gmail. com	Department of Physics, Aggarwal College Ballabgarh, Faridabad, Haryana- 121004	Radioactivity Assessment in different type of dwellings using Solid State Nuclear Track Detectors	T2/223	P68	POSTER
105	Sundar Narayan sundar.narayan@lambtoncol	School of Technology, Lambton College, Sarnia, Ontario, Canada,	What if the Graviton has a Negative Mass?	T1/106	O36	ORAL

	lege.ca	N7S 6K4				
106	Tchouank Tekou Carol T. srivastava_phy@yahoo.co.in	Department of Physics, Lovely Professional University, Phagwara-144411, Punjab, India	Structural and Optical Properties of BaFe _{11.8} Bi _{0.1} Al _{0.1} O ₁₉ Embedded on Polyaniline (PANI) for Electronic Devices	T4/457	O37	ORAL
107	Raju Kumar satyambd@gmail.com	Special Centre for Nanoscience, Jawaharlal Nehru University, New Delhi-110067, India	Enhanced negative electrocaloric effect in SrMnO ₃ doped K _{0.5} Na _{0.5} NbO ₃ nanocrystalline ceramics.	T4/458	P70	POSTER
108	Jyoti Bala jyoti_pu@yahoo.com	Guru Gobind Singh Indraprastha University, Sector 16 C, Dwarka, Delhi-110078.	Modified Titania nanotube electrode with low energy ion beam using for sensing application	T4/459	P71	POSTER
109	Ar. Ajendra Singh,	M.Arch Student, Integral University, Kursi road, Lucknow	Optical use of Water and Rainwater Harvesting	T5/513	P72	POSTER
110	Ar. Ankita Singh	Assistant Professor, Institute of Architecture & Town planning, Bundelkhand University, Jhansi	Efficiency and Accuracy of Weather Forecasting	T5/514	P73	POSTER
111	Ruchika (Sharma) Joshi rammehra2003@yahoo.com	Department of Physics, Deshbandhu College, Kalkaji, New Delhi-110019	Atmosphere influence on structural, optical and electrical properties of	T4/470	P74	POSTER

			scandium doped zinc oxide films by sol-gel route			
112	Surjeet Chahal sumanjangra1594@gmail.com	Department of Physics, DCR University of Sci. & Tech., Murthal, Sonapat, Haryana, India-131039	Synthesis and Characterization Of Ce ³⁺ doped Co-Mn Ferrite Nanoparticles	T4/461	P75	POSTER
113	Pooja Devi	Department of Physics & Astrophysics, University of Delhi, Delhi 110007, India	In situ grown Co ₃ (VO ₄) ₂ on reduced graphene oxide and its application for supercapacitor electrode materials	T4/462	P76	POSTER
114	Sudha Gulati drguptavinay@gmail.com	Department of Physics, Kalindi College, University of Delhi, Delhi-110008, India	SPR based Optical sensor for the detection of Adulteration in Milk	T4/463	P77	POSTER
115	N. D. Kaushika	Ex-Professor IIT Delhi	RESEARCH TRENDS IN SOLAR CELL PHYSICS	T5/515	O38	ORAL
116	Ar. Surjeet Singh	Assistant Professor, Institute of Architecture & Town planning, Bundelkhand University, Jhansi	Renewable energy	T5/516	P78	POSTER
117	J. Mohammed srivastava_phy@yahoo.co.in	Department of Physics, Lovely Professional University, Phagwara-144411, Punjab, India	Microstructural and electrical properties of Er-Mn substituted calcium copper titanate (CCTO)	T4/464	O39	ORAL

118	Bhawan Jyoti aabru_sharma@yahoo.co.in	Guru Gobind Singh Indraprastha University, Sector 16 C, Dwarka, Delhi-110078.	Ultrasonic investigation in platinum carbide	T4/466	P80	POSTER
119	Amit Kumar amitrana1711@gmail.com	Amity School of Applied Sciences (ASAS), Amity University Haryana, Manesar- 122413, India	Ultrasonic wave propagation in PuPn (Pn = N, P, As, Sb and Bi)	T4/467	P81	POSTER
120	Chandreshvar Prasad Yadav cpy99physics@gmail.com	¹ Department of Physics, P.P.N. (P.G.) College, Kanpur, UP 208 001, India	Ultrasonic study of intermetallic compounds YZn and YCu	T4/468	P82	POSTER
121	Md Chand Asique	Assistant Professor, department of mathematics, Sri Aurobindo College	The Analysis of Restricted four- body problem	T4/469	O40	ORAL
122	Chanchal Yadav chanchalyadav84@gmail.com	Department of Physics and Electronics, Rajdhani College, University of Delhi, New Delhi-110015, India	Confinement Effects on Bounded Systems	T4/471	P83	POSTER
123	Jattan Talan susheelks@gmail.com	Department of Physics, SGTB Khalsa College, University of Delhi, Delhi, 110007	A new model of urban slums indicating latent fractal structure	T5/516	P84	POSTER
124	Vasudha Agarwal vasudha.ag87@gmail.com	Maitreyi College, University of Delhi, Chankyapuri, New Delhi-110021, India	Magnetic and Transport Study as a Function of Film Thickness in $\text{La}_{1-x-y}\text{Pr}_y\text{Ca}_x\text{MnO}_3$ Thin Films.	T3/314	P85	POSTER

125	Shahnoor Ali	School of Physical Sciences, Jawaharlal Nehru University, New Delhi-110067, India	Tunable Mode Convertor based on a Quantum Dot in a semiconductor Optomechanical Cavity	T4/472	P86	POSTER
126	Ajay Kumar ajaynpl@gmail.com	Physics Department, Deshbandhu College, Kalkaji, ND-110019	Graphene as an electrode material for electro- optical devices	T4/473	P87	POSTER
127	Anu Rana anurana@srmuniversity.ac.in	Department of Physics, SRM University, Delhi-NCR Sonapat, Haryana 131029	Nano-size $Ni_{0.5}Zn_{0.5}La_xFe_{2-x}O_4$: Synthesis and Sensing Applications	T4/474	P88	POSTER
128	Dharmveer Singh veerdsingh@gmail.com	Division of Research and Development, Lovely Professional University, Jalandhar-Delhi GT Road, Phagwara-144411, Punjab, India	Thermodynamics of regular black hole and entanglement entropy	T2/224	P89	POSTER
129	Himani Kohli 4himani@gmail.com	Biomedical Instrumentation Division, DIPAS, DRDO, Delhi 110054, India	Effect of Electromagnetic Field on the Growth of Staphylococcus aureus	T3/312	O41	ORAL

130	Shivani Sharma shivanisha18@gmail.com	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	Ammonia sensor using WS ₂ nanostructures obtained via top-down approach	T4/484	P90	POSTER
131	L. P. Pandey lppandey16april@gmail.com	Centre for Fundamental Research in Space Dynamics and Celestial Mechanics, Ashok Vihar, Delhi-110052	Phase space structure of the Extended Sitnikov Problem with all primaries are oblate	T4/476	O42	ORAL
132	M. Agrawal mann80@gmail.com	Department of Physics, Sri Aurobindo College, University of Delhi, New Delhi, India-110017 .	Phase synchronization in diversely – coupled chaotic systems	T4/477	O43	ORAL
133	Manju Devi manjukandhol786@gmail.com	Department of Physics, National institute of technology, Kurukshetra	Synthesis and electrochemical characterisation of Y ₂ CoNiO ₆ /rGO composite	T4/478	P91	POSTER
134	Monika Arora monikaarora1@gmail.com	Miranda House, University of Delhi, Delhi-110007, India.	The Basins of Convergence in the Planar restricted four-body problem with variable mass	T4/479	O44	ORAL
135	Pradeep Kumar Singh onnetpradeep@gmail.com	Dept of Mathematics, NSUT, New Delhi	A Comparative Study of Unsteady Flow and Mass Transfer in	T4/480	O45	ORAL

			Haemodialysers			
136	Ravindra Kumar ravimrt@icloud.com	Department of Physics, Shyam Lal College, University of Delhi, Shahdara, Delhi-110032	Temperature Dependent Effective Second Virial Coefficient and Pair Distribution Function for Ammonia Vapour	T4/481	P92	POSTER
137	Sandeep Sharma sandeepscl@gmail.com	<i>Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India</i>	Giant spin-orbit coupling and temperature dependent emission from WS ₂ nanostructures	T4/482	P93	POSTER
138	Shipra Chauhan chauhanshipra10@gmail.com	Department of Mathematics, University of Delhi, Delhi, India, 110007	A study of perturbed photogravitational restricted three-body problem under the effect of Albedo	T1/116	O46	ORAL
139	Yogesh Kumar yogesh.du81@gmail.com	Department of Physics, Deshbandhu College, University of Delhi, Kalkaji, New Delhi-110019	The effect of a strong magnetic field on photon production of quark gluon plasma	T2/225	P94	POSTER
140	Rakesh Kumar Meena rakeshbasmeena@gmail.com	Department of Physics, Deshbandhu College, University of Delhi, Kalkaji, New Delhi-110019	Strangelets in a strong magnetic field using quasiparticle model	T2/226	P95	POSTER
141	Ajit Kumar ajitbhu16@gmail.com	School of Physical Sciences, Jawaharlal Nehru University, New Delhi 110067, India	Electrocaloric effect in (1-x)Na _{0.5} Bi _{0.5} TiO ₃ -xBi(Zn _{2/3} Nb _{1/3})O ₃ (NBT-BZN) bulk ceramics	T5/518	O47	ORAL

142	Garima Chanana kbatra@ipu.ac.in	GGs Indraprastha University, University School of Basic and Applied Sciences, Delhi 110078, India	Quantum chemical calculations of thermodynamic properties of Li ₂ molecule in the presence of electric field using Density Functional Theory.	T5/517	P96	POSTER
143	Ajay Pratap Singh Gahlot	Deshbandhu college, University of Delhi -110019, India	Titanium oxide (TiO ₂) thin film as an efficient photocatalyst	T4/487	O48	ORAL
144	Aditya Saxena	Deshbandhu college, University of Delhi -110019, India.	Effect of thin film electrode on the voltage generation of triboelectric generator	T3/316	O49	ORAL
145	Charanpreet kaur	SGTB Khalsa College , University of Delhi	Basins of Convergence -- --	T4/488	O50	ORAL
146	Mamta Jain mamtag27@gmail.com	Aurbindo College, Department of Mathematics, D.U.	Stability of non-collinear libration points under the effect of stokes drag with straight line segment	T1/107	O51	ORAL
147	Shah Naveed shahnaveed75@gmail.com	JMI, New Delhi	Saha Equation in Modified Gravity Theories	T2/228	P97	POSTER
148	Poonam Mantry poonam.mantry@gmail.com	Department of Mathematics, Daulat Ram College	Multidimensional Zak Transform and Weyl Heisenberg Frames in	T4/489 a	O52	ORAL
149	Amit Choudhary	Deshbandhu college, DU	Dielectric relaxation	T3/313	P98	POSTER

	amitnpl2005@gmail.com		behaviour of circular alignment in ferroelectric liquid crystal material			
150	Sdas Mami mami.sdass@gmail.com	Independent Research Scholar	X - Ray Diffraction Characteristics of n-type Indium Antimonide Thin Films	T4/491	P99	POSTER
151	Niti Aggarwal nitichin@yahoo.co.in	Shyamlal College,DU	Experimental Investigation of the Impact of Partial Shading Condition on SP and BL Configured PV Arrays	T5/519	O53	ORAL
152	Dinesh Kumar dineshk8392@gmail.com	Deshbandhu College,DU	Unveiling the effect of perturbations in the Robe-Finite Straight Segment framework	T1/109	O54	ORAL
153	Fahad Iqbal alfahad.physics@yahoo.com	JMI,New Delhi	Study And Analysis Of The Colors Of Different Stars From SDSS-3 Data Base	T1/108	P100	POSTER
154	Manisha Upadhyay manishaupadhyay9@gmail.com	ARSD College, South Campus, University of Delhi, Delhi – 110021, India.	Atomic displacements & phase transitions in Ge-Sb-Te based phase change memory materials	T5/523	O55	ORAL
155	Vinod Kumar	Department of Physics, University of Lucknow, Lucknow 22006	Tentatively assignments of $d_{5/2}$ $h_{11/2}$ Band in	T2/227	P101	POSTER

	vinod2.k2@gmail.com		132 La			
156	Vinita Suyal vinita.suyal@gmail.com	Patent Office, Dwarka Sector Government Organisations in Delhi	Analysis of sunspot area time series using empirical mode decomposition (EMD) method	T4/489	O56	ORAL
157	Dr. Hira Joshi hira.joshi123@gmail.com	Gargi College, University of Delhi	Plasmonics supported photoresponse of nanocomposites	T4/492	O57	ORAL
158	Prachi Sachan prachi.sachan80@gmail.com	Department of mathematics, DU	On the restricted axisymmetric five-body problem within the frame of variable mass	T1/112	O58	ORAL
159	Md Sanam Suraj	Department of mathematics, S.G.T.B.College, DU.	On the Restricted Five- Body Problem	T1/113	O59	ORAL
160	Virender Singh Bisht virender.bisht@aon.com	Research Scholar, Al-Falah University, Faridabad (Haryana), India	The role of variable mass in the restricted four body problem within a frame of coriolis and centrifugal force.	T1/111	O60	ORAL
161	Supreeti Das supreeti25@gmail.com	Gargi College, DU	Heat Transfer in CNT nanofluids	T3/315	P102	POSTER
162	Preeti Jain prshajain@gmail.com	Department of Mathematics, ARSD College	Exploring the Effect of Periodic Orbits under the Collision in the Elliptic Restricted Problem of Three Bodies when one	T1/114	O61	ORAL

			of the primary is an Axis-Symmetric Rigid Body.			
163	Ruchika Jain ruchikajain29@gmail.com	Akhilesh Das Gupta Institute of Technology and Management, GGSIP University, Delhi, India	Linear Stability and regions of motion in the restricted three-body problem when the primaries are finite straight segments	T1/115	O62	ORAL
164	Arvind R. Bajaj arnd.bjj64@gmail.com	Department of Physics, Veer Narmad South Gujarat University, U M Road, Surat-395007	Growth and Second Harmonic Generation (SHG) Studies of Metal Doped Thiourea Single Crystals	T4/415	O63	ORAL
165	Surbhi Jain monikatomar@gmail.com	Miranda House, DU	Surface Plasmon Resonance Studies on Optical fibers coated with different Plasmonic metals	T4/493	P104	POSTER
166	Shweta Sharma monikatomar@gmail.com	Miranda House, DU	Influence of deposition pressure on electrical properties of eco-friendly ferroelectric KNN thin Films	T4/494	P105	POSTER
167	Kriti Batra kbatra@ipu.ac.in	IPU, Delhi	Study of structural and optical properties of diatomic molecule using density functional theory	T4/419	O64	ORAL
168	Nidhi Dhull	Miranda House, DU	Electrolyte-gated NiO	T4/495	P106	POSTER

	monikatomar@gmail.com		thin film based FET as a pH sensor			
169	Surbhi Gupta monikatomar@gmail.com	Miranda House, DU	Investigation of Birefringence and electro-optic effect in SBN75 thin film	T4/496	O65	ORAL
170	Yogesh Kumar yogesh.du81@gmail.com	Deshbandhu College, DU	Finite size of QGP droplet in a non-zero magnetic field	T2/229	P107	POSTER
171	Sushil Yadav syadav@mac.du.ac.in	Maharaja Agrasen College University of Delhi	Resonance in a geo-centric synchronous satellite under the gravitational forces of the Sun, the Moon and the Earth including it's equatorial ellipticity	T1/110	O66	ORAL
172	Ajeet Kumar	CSIR-NPL, New Delhi	Resistive switching devices as future high-density non-volatile multilevel memory	T4/497	O67	ORAL
173	Harindri Chaudhary	Deshbandhu College, DU	Hybrid projective synchronization of 4-D hyperchaotic system via adaptive control	T4/499	O68	ORAL
174	Neha Aggarwal neha.maths10@gmail.com	Department of mathematics, DU	Hyperchaotic analysis of a 4D nonlinear dynamical system and its synchronization using Adaptive control	T4/490	O69	ORAL

175	Jyoti Kashyap kashyapjyoti.8@gmail.com	South Campus, DU	Effect of textured silicon on ZnO / Si heterojunction	T5/520	O70	ORAL
176	Monika Jamdegni	Department of Physics and Astrophysics, University of Delhi	Black to transparent electrochromic electrode	T4/498	O71	ORAL
177	Manju Rani manju.r93@gmail.com	Deshbandhu College, University of Delhi -110019, India	Modification in morphology of Si wafer surface in ZnO/Si heterojunction	T5/521	O72	ORAL
178	P. K. Mukherjee	Deshbandhu college, University of Delhi -110019, India	Some out of the box ideas in Physics Teachings	T5/522	O73	ORAL
179	Shakeb Ahmad physics.sh@gmail.com	Department of Physics Aligarh Muslim University ALIGARH, U.P.-202 002	A study of Superheavy Nuclei within Covariant Density Functional Theory	T2/230	O74	ORAL
180	R. K. Sharma ramkrishan@karunya.edu	Karunya University	On meeting of resonant periodic orbits 4:1, 3:2 and 2:1 in sun-Jupiter Photogravitational restricted three body problem	T1/117	O75	ORAL
181	Sidra Khan	Department of Physics, Aligarh Muslim University, Aligarh – 202002, India	Dielectric spectroscopy and electro-optical measurements of BiFeO ₃ nanoparticles/ferroelectric liquid crystal composites	T4/499 a	P108	POSTER
182	Til Prasad Sarma	Department of Education in Science and Mathematics, NCERT,	Dynamics of Evolution of Bogdanov system:	T4/400	O76	ORAL

	tpsncert@gmail.com	Sri Aurobindo Marg, New Delhi - 110 016	Analysis of chaos and complexity			
183	Raj Gupta	Department of Electronic Science, University of Delhi South Campus, New Delhi 110021	Capacitance - Voltage and Capacitance - Temperature Responses of Graphene-Silicon Hetrojunction Solar Cells	T5/524	P109	POSTER
184	Dipti Munjal	Department of Physics and Astrophysics, University of Delhi, Delhi, India-110007	Optical response of Positronium under soft confinement	T3/317	P110	POSTER
185	Ajay Pratap Singh Gahlot	Deshbandhu college, University of Delhi -110019, India	PLD deposited Zinc Oxide Nanorods based highly efficient perovskite solar cell	T4/499b	P111	POSTER
186	Sangeeta Singh sangeetaasingh@gmail.com	Department of Physics, GVM Girls College, Sonapat – 131001	Study of $0.85\text{Pb}_{1-3x/2}\text{La}_x\text{Zr}_{0.65}\text{Ti}_{0.35}\text{O}_3 - 0.15\text{Ni}_{0.8}\text{Zn}_{0.2}\text{Fe}_2\text{O}_4$ Composites	T4/499c	P113	POSTER
187	Rekha Rani gandhirekhag@gmail.com	Department of Physics, SD (PG) College, Panipat – 132103	Structural and Dielectric Properties of Microwave Processed $0.9\text{PbZr}_{0.65}\text{Ti}_{0.35}\text{O}_3 - 0.1\text{Ni}_{0.8}\text{Zn}_{0.2}\text{Fe}_2\text{O}_4$ Composite	T4/499d	P114	POSTER
188	U. P. Tyagi	Deshbandhu college, University of Delhi -110019, India	Study of polytypism in the substitutional solid solution of melt grown crystal cadmium iodide	T4/499e	P115	POSTER
189	Ayushi Paliwal	Deshbandhu college, University of	Phase interrogation	T4/499f	P116	POSTER

		Delhi -110019, India	surface plasmon resonance analysis of different metals : Theoretical Investigation			
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