

List of Participants of CMDays2011 to be held in Gauhati University during 24-26 August,2011:

<u>Sl.No.</u>	<u>Name of the article</u>	<u>Author & Affiliation</u>	<u>Confirmation Status</u>	<u>Oral/Poster</u>
1	Firefly Flashing under Strong Static Magnetic Field	Anurup Gohain Barua^{1,*} and Masakazu Iwasaka² <i>¹Department of Physics, Gauhati University, Guwahati-781014, India</i> <i>²Chiba University, 1-33 Yayoicho, Inage-ku, 263-8522 Chiba, Japan</i>	YES	ORAL 1
2	Effect of Deposition Temperature on the Structural and Optical Properties of Chemically Prepared Nanocrystalline Lead Selenide Thin Films	A. Begum, A. Hussain, K. Siddique and A. Rahman <i>Department of Physics, Gauhati University, Guwahati, India -781014</i>	YES	POSTER1
3	Studies on Electrical and Optical properties of nanocrystalline Bismuth Sulphide thin films prepared by chemical bath deposition	A. Hussain, A. Begum, K. Siddique and A. Rahman <i>Department of Physics, Gauhati University, Gauhati, Assam, India-781014</i>	YES	POSTER2
4	A Comparative Study of Doped (Fe & Mn) and Undoped ZnS Nanocrystalline Thin Films	A.K. BuzarBaruah¹, A. K. Das², S. Bardaloi³ <i>¹Dimoria College</i> <i>²Arya Vidyapeth College</i> <i>³ Department of Instrumentation &USIC</i>	YES	POSTER3
5	An Analysis of Demineralised Tirap coal using X-ray Radial Distribution Function of Atoms	A. Gogoi & R. K. Boruah <i>Analytical Chemistry Division North East Institute of Science & Technology, Jorhat-785006, Assam, India</i>		POSTER4
6	Motion of Bound Domain Walls in an Antiferromagnetic Two-Chain Ladder	Amit Kumar Pal and Indrani Bose <i>Department of Physics</i> <i>Bose Institute 93/1 Acharya Prafulla Chandra Road, Kolkata – 700009, India</i>	YES	POSTER5
7	A Mie scattering calculator for the study of light scattering properties of bare and coated nanoparticles	Ankur Gogoi¹, Pritom Rajkhowa², Amarjyoti Choudhury¹ and Gazi A Ahmed¹ <i>¹Optoelectronics and Photonics Research Laboratory, Department of Physics, Tezpur University, Tezpur 784028, Assam, India</i> <i>²Computer Center, TezpurUniversity, Tezpur 784028, Assam, India</i>	YES	ORAL2

8	Theoretical Study of ferro fluid in wavy channel	Anjana Kumari¹, Rajiv Kumar² and Tarun Kumar Dey³ <i>¹Department of Physics, Purnea Mahila College, Purnea-854301</i> <i>^{2,3}Post Graduate Department of Physics L.S College, BRA Bihar University, Muzaffarpur-842001</i>		POSTER6
9	Preparation of Polytetrafluoroethylene (PTFE) Thin Films via PLD Technique	Archana Kushwaha, Indrajeet Kumar and Alike Khare <i>Laser and Photonics Lab, Department of Physics, Indian Institute of Technology Guwahati, Guwahati-781039, Assam, India.</i>	YES	ORAL3
10	Effect of Helium gas pressure during deposition on the Specular reflectivity of Rhodium thin films via PLD	A T T Mostako¹, Alike Khare² and C. V. S. Rao³ <i>^{1,2}Department of Physics, Indian Institute of Technology Guwahati, Guwahati-781039</i> <i>³Institute for plasma Research, Bhat, Gandhinagar -382428, India</i>	YES	POSTER7
11	Optimization of Y₂O₃ additive for complete conversion of monoclinic zirconia to cubic zirconia by thermal treatment	Avinna Mishra, D. K. Mishra and S. K. Singh <i>Advanced Materials Technology Department, Institute of Minerals and Materials Technology (CSIR), Bhubaneswar-751013, Orissa, India</i>		POSTER8
12	Studying porosity, permeability and fractal nature of real rock sample by computational method	^{1,2}Abhra Giri, ¹Sujata Tarafdar, ³Tapati Dutta, Phillippe Gouze and ⁴Supti Sadhukhan <i>¹ Jadavpur University, ² St. Xaviers College, Kolkata, ³ Geosciences Research Unit Universit de Montpellier, France, ⁴ Jogesh Chandra Choudhury College, Kolkata</i>	YES	POSTER9
13	Specific Heat anomaly of YBCO in magnetic fields up to 16T	A.Pattanaik¹, P.Nayak² <i>¹Department of Physics, Indira Gandhi Institute of Technology, Sarang, India, 759146</i> <i>²School of Physics, Sambalpur University, Jyoti Vihar, Burla, India, 768019</i>	YES	POSTER10
14	Optical Properties of Mn-doped CdSe Nanostructures	Bandana Das^a, P.K.Kalita^b and Pranayee Datta^c <i>^a Dept of Physics, Pandu College, Guwahati-781012 ^bDept of Physics, Guwahati College, Guwahati-781021 ^cDept of Electronic Sc. & Comm.Tech., G.U., Guwahati-78014</i>	YES	POSTER11

15	Effect of Growth temperature on chemical synthesis of PbS nanoparticles	B. Das, R. Devi and P. K. Kalita, Guwahati College <i>Nanoscience Research Laboratory, Department of Physics, Guwahati College, Guwahati-781021, INDIA</i>	YES	POSTER12
16	Effect of Magnetic Field on the Martensitic Transformation of NiMnGa Ferromagnetic Shape Alloy ribbon	B. Rajini Kanth and P. K. Mokhopadhyay <i>LCMP, S.N Bose National Center for Basic Sciences, Salt Lake, Kolkata- 98</i>	YES	POSTER13
17	Effect of Mn doping on the Photoluminescence properties of TiO₂ nanoparticles (Ti_{1-x}Mn_xO₂, 0≤x≤0.045)	B. Choudhury, A. Choudhury <i>Department of Physics, Tezpur University</i>	YES	POSTER14
18	Magnetic Properties of Ru₂MnSi(Ge) Alloys	Bhargab Deka, Rahul Das, A. Srinivasan <i>Department of Physics, IIT Guwahati</i>	YES	POSTER15
19	Understanding the Complex Magnetic Behaviour of Mechanically Alloyed Fe₈₀Zr₂₀	Brahmananda Sethi, D. Mishra, S. B. Santra and A. Srinivasan <i>Department of Physics, IIT Guwahati</i>	YES	POSTER116
20	First –principle based investigation of the lattice dynamics in Ni_{0.50}Pt_{0.50}	Biswanath Dutta, Souvik Paul and Subhradip Ghosh <i>Department of Physics, IIT Guwahati</i>	YES	ORAL4
21	Anti-percolation in the etching of a random solid	Bappaditya Roy, Himangsu Bhaumik and S. B. Santra <i>Department of Physics, IIT Guwahati</i>	YES	POSTER17
22	Optical Properties of Mn Doped ZnS Nanoparticles	Bijoy Barman^a, P.K.Mochahari^b, K.C.Sarma^c <i>^aDepartment of Physics, Abhayapuri College, Abhayapuri. ^bDepartment of Physics, D.K.D. College, Dergaon.^cDepartment of Instrumentation and USIC, Gauhati University, Guwahati, India</i>	YES	ORAL5
23	Polyaniline/ TiO₂ heterostructure prepared by plasma assisted deposition process	Bimal K. Sarma, Arup R. Pal, Heramba Bailung, Joyanti Chutia <i>Institute of Advanced Study in Science and Technology, Guwahati</i>	YES	ORAL6
24	On the extendedness of eigenstates in a hierarchical lattice: a critical view	Biplab Pal, Arunava Chakrabarti and Nitai Bhattacharya <i>Department of Physics, University of Kalyani, Kalyani, West Bengal 741 235, India</i>	YES	POSTER18

25	Interplay of superconductivity and antiferromagnetism in borocarbide superconductors in presence of external magnetic field.	<u>B.K.Sahoo</u>^a, <u>B.N.Panda</u>^b ^a <i>D.A.V College, Koraput, Odisha, India-764021.</i> ^b <i>K.K. Junior College Berhampur, Odisha, India-760001.</i>	YES	POSTER19
26	Impedance Spectroscopy Study of Lead-free Perovskite (Bi_{0.5}Na_{0.5})TiO₃ (BNT) Ceramic	B. Parija, T. Badapanda, S. K. Rout, V. Senthil, <u>S. Panigrahi</u> <i>Department of Physics, NIT Rourkela- 769 008</i>	YES	ORAL7
27	Improvement of Electrical Conductivity of ZnO thin film by carrier diffusion	<u>B. Saha</u>^{a,b*} and K. K. Chattopadhyay^a ^a <i>Thin film and Nanoscience laboratory, Department of Physics, Jadavpur University, Kolkata, 700 032, India.</i> ^b <i>Department of Physics, Dasarath Deb Memorial College, Khowai, West Tripura, 799201, India</i>	YES	POSTER20
28	Effect of Doping on SC and AFM and Study of phase diagram in cuprate superconductors	<u>B.N.Panda</u>^a, <u>B.K.Sahoo</u>^b ^a <i>K.K. Junior College, Berhampur, Orissa, India-760001..</i> ^b <i>D.A.V College, Koraput, Orissa, India-764021</i>	YES	POSTER 21
29	Structural and dielectric properties of NaSr₂Nb₅O₁₅ Ceramic	Banarji Behera¹, <u>N.K. Mohanty</u>¹, S.K. Satpathy¹, P. Nayak¹ and R.N.P. Choudhary² ¹ <i>School of Physics, Materials Research Laboratory, Sambalpur University, Jyoti Vihar, Burla – 768 019, Odisha, India</i> ² <i>Department of Physics, ITER, Siksha ‘O’ Anusandhan University, Bhubaneswar - 751 030</i>	YES	POSTER22
30	Effect of swift heavy ion radiation on modifying the structural, optical and electrical properties of BiFeO₃ thin film	<u>B.N. Dash</u>^{1,3,*}, P. Mallick^{2,3}, P. Dash³, R. Biswal³, D. Kanjilal⁴ and N.C. Mishra³ ¹ <i>Department of Physics, Salipur College, Salipur 754103, India</i> ² <i>Department of Physics, North Orissa University, Baripada 757003, India</i> ³ <i>Department of Physics, Utkal University, Bhubaneswar 751004, India</i> ⁴ <i>Inter-University Acceleration Centre, Aruna Asaf Ali Marg, New Delhi 110067, India</i>	YES	ORAL8

31	Structural, optical and electrical properties of some newly synthesized rare earth double perovskite oxides	Chandrasahs Bharti and T.P.Sinha <i>Department of Physics, Bose Institute, 93/1, Acharya Prafulla Chandra Road, Kolkata-700009, India</i>	YES	ORAL9
32	Electrical and magnetic properties of HCl doped polyaniline nanofibres and nanoparticles: a comparative study	Chandrani Nath and A. Kumar <i>Department of Physics Tezpur University</i>	YES	POSTER23
33	First-principles calculations on shape memory alloys	Chabungam S. Singh and Munima B. Sahariah <i>Department of Physics, Cotton College, Gywahati</i>	YES	POSTER24
34	Synthesis of ZnO nanorods at room temperature and photoluminescence effect on staphylococcus bacteria	Durga Prasad Gogoi, Gazi A Ahmed, Amarjyoti Choudhury <i>Tezpur University</i>	YES	POSTER25
35	Effect of insertion of single Li atom on the optical properties of single walled carbon nanotubes	Debnarayan Jana^{a,*}, Li-Chyong Chen^{b,d}, Chun Wei Chen^c, Kuei-Hsien Chen^{b,d} <i>^aDepartment. of Physics, University College of Science and Technology, University of Calcutta, Kolkata – 700 009, West Bengal, India^bCenter for Condensed Matter Sciences, National Taiwan University, Taipei 10617, Taiwan</i> <i>^cDepartment of Material Science and Engineering, National Taiwan University, Taipei 10617, Taiwan</i> <i>^dInstitute of Atomic and Molecular Sciences, Academia Sinica, Taipei 10617, Taiwan</i>	YES	ORAL10
36	dsDNA provides a gateway for efficient energy transfer between FRET pairs Acriflavine-Rhodamine B and Pyrene- Acriflavine	Dibvendu Dey, D. Bhattacharjee and Syed Arshad Hussain <i>Department of Physics, Tripura University, Suryamaninagar-799130, Tripura, India</i>	YES	POSTER26
37	Adsorption of a fluorescent dye in a preformed Langmuir monolayer	D.Bhattacharjee¹, Soma Banik², Syed Arshad Hussain¹ <i>¹Department of Physics, Tripura University, Suryamaninagar-799022, Tripura, India</i> <i>²Department of Physics, Women's</i>	YES	POSTER27

		<i>College, Agartala-799001, Tripura, India</i>		
38	Surface roughness of nanoscale leads to enhance the tenacity and hydrophobicity of muga silk (<i>Aantherea asamenisis</i>)	<u>Dolly Gogoi¹, A. J. Choudhury¹, J. Chutia¹, A. R. Pal¹, D. Devi¹, D.S. Patel²</u> <i>¹Institute of advanced study in science and technology, Pashim Boragaon Garchuk Guwahati- 781035, India ² Laser and Plasma Technology Division, Bhabha Atomic Research Center, Trombay Mumbai - 400085, India</i>	YES	POSTER28
39	Effect of annealing temperature on the photoluminescence property of ZrO₂ thin films deposited on fused silica	<u>Debarun Dhar Purkayastha¹, N. V. SRao², V. Madhurima¹,</u> <i>¹Department of Physics, Mizoram University, Aizawl –796009, India ² Assam University, Silchar -788011, India</i>	YES	ORAL11
40	Low temperature synthesis of spherical zinc sulphide nano particles doped with maganese	<u>D.C.Deka and S.Bordoloi</u> <i>Department of Instrumentation & USIC, Gauhati university, Guwahati-781014, Assam, India</i>	YES	POSTER29
41	Negative Resistance Properties of Transit Time Diodes Based on Various Semiconductor Materials with Increasing Bandgap Energy	^{1,2} <u>Diptodip Chakraborty and</u> ^{1,3} <u>Moumita Mukherjee</u> <i>¹Centre for Millimeter-wave Semiconductor Devices and Systems (CMSDS), Institute of Radio-Physics and Electronics, University of Calcutta 1, Girish Vidyaratna Lane, Kolkata 700009, West Bengal, India</i>		POSTER30
42	Stability of small but finite amplitude interfacial capillary gravity in presence of air flow over water propagating in two horizontal directions	<u>D.P.Majumdar, A.K.Dhar</u> <i>Department of Mathematics Bengal Engineering and Science University, Shibpur P.O. Botanic garden, Shibpur Howrah - 711103, West Bengal, INDIA</i>	YES	POSTER31
43	Theory of $\vec{k} \cdot \vec{\pi} + U$ electronic structure and possibilities of ferromagnetic transition in p-type Sn_{1-x}Gd_xTe	<u>G. S. Tripath</u> <i>Department of Physics, Berhampur University, Berhampur 760007, Orissa, India</i> <u>K. Dash</u> <i>Department of Physics, Gopalpur College, Gopalpur 761002, Orissa, India</i>	YES	ORAL12

44	Stripline based novel bandstop filter	Gouri Goutam Borthakur*¹, Debasish Sarmah² <i>¹Department of Physics, Jorhat Institute of Science and Technology ²Department of Physics, Pragjyotica Junior College, Titabor, Jorhat</i>	YES	POSTER32
45	Doping Dependence of Tunneling Conductance in CDW and SDW gaps in Cuprate Systems	G. C. Rout <i>Condensed Matter Physics Group, P. G. Dept. of Applied Physics and Ballistics, F. M. University, Balasore, India-756 019.</i> S. K. Panda <i>K. D. Science College, Pochilima, Hinjilicut-761 101, Ganjam, Orissa, India.</i>	YES	POSTER33
46	Effect of 120 MeV Au ion irradiation on the structure and microstructure of rutile TiO₂ thin films	¹H.Rath, Jai Prakash, ²P.Dash, ³T.Som, ⁴B.N.Dash, ⁵U.P.Singh and ¹N.C. Mishra <i>¹ Utkal University, ²MMH College, ³Institute of Physics, SVM College, ⁴KIIT University</i>	YES	POSTER34
47	Structural Studies on nanocrystalline cubic Silicon Carbide films deposited by Hot Wire CVD	Himanshu S Jha, Mukush Singh, Lalhriatzuala, Asha Yadav and Pratima Agrawal <i>IIT Guwahati</i>	YES	POSTER35
48	Dissipative sandpile on growing random network	Himangsu Bhaumik and S.B.Santra <i>Department of physics, Indian Institute of Technology Guwahati, Guwahati-781039, Assam</i>	YES	POSTER36
49	Some new insight into the nature of the metallic bond	H. L. Das¹ and P. K. Saikia² <i>¹Department of Physics, Gauhati University, Guwahati – 781 014, Assam ²Department of Physics, Dibrugarh University, Dibrugarh – 786 004, Assam</i>	YES	ORAL13
50	Synthesis, structural, electrical and optical properties of Ni-doped ZnO	¹Joyeeta Talukdar, Chandrasah Bharti and T. P. Sinha <i>Department of Physics, Bose Institute, 93/1, Acharya Prafulla Chandra Road, Kolkata-700009, India ¹Department of medical Biotechnology, Institute of genetic medicine and genomic science, Thakurhat road, BADU, Madhyamgram, Kolkata-700128</i>	YES	POSTER37

51	Flooding transition in toppling surfaces of stochastic sandpile models	Jahir Abbas Ahmed and S. B. Santra <i>Department of Physics, Indian Institute of Technology Guwahati Guwahati-781039, Assam</i>	YES	ORAL14
52	Simulation of experimental results of dc magnetic susceptibility of Pr₂Zr₂O₇ by D_{3d} crystal-field theory	Jahangir Alam, Yatramohan Jana, Aksar Ali Biswas, Partha Das <i>Department of Physics, University of Kalyani, Kalyani, Nadia, W.B., India</i>	YES	POSTER38
53	Effect of Thermal Annealing on the Optical Properties of Spin Coated Tin Oxide Thin Films	K. Nomita Devi¹, Ch. Shyam Singh² and H. Nandakumar Sarma² <i>¹Department of Physics, North Eastern Regional Institute of Science and Technology (NERIST), Nirjuli, Arunachal Pradesh-791 109, India</i> <i>²Department of Physics, Manipur University, Canchipur, Imphal-795003, India.</i>	YES	POSTER39
54	Electrical property changes with structure in a dielectric	KR Sahu¹ and Udayan De² <i>¹Physics Department Egra SSB College, Egra, Purba Medinipur 721429, India</i> <i>²Kendriya Vihar, C4 / 60, V.I.P. Road, Kolkata 700052, India</i>	YES	ORAL15
55	Structural, optical and electrical properties of bismuth oxide thin films.	K.Siddique and A.Rahman <i>Department of Physics, Gauhati University, Guwahati 781014, India</i>	YES	POSTER40
56	A Model Study Of Longitudinal Sound Velocity in Kondo lattice Heavy Fermion Systems.	Keshab Chandra Shadangi <i>U.G.C. Teacher-fellow</i> Govinda Chandra Rout <i>Department of Applied Physics Ballistics F.M. University, Vyasa Vihar, Balasore-756019.</i>	YES	POSTER41
57	Effect of spin fluctuation on SC gap in high Tc cuprates	^aK.C. Bishoyi, ^bS.P. Mohapatra, ^bG.C.Rout <i>^aDeptt. Of Physics, N.C. College(Autonomous), Jajpur-755001, Odisha. ^bDeptt. Of Physics, Anandapur College, Anandapur-758021, Odisha. ^cCondensed Matter Physics Group, P.G. Deptt. Of Applied Physics and Ballistics, F.M. University, Balasore- 756019, Odisha.</i>	YES	POSTER42

58	Theory of magnetization of p-type $Sn_{1-x}Gd_xTe$: Contributions from local moments, lattice diamagnetism and carriers	K. Dash <i>Department of Physics, Gopalpur College, Gopalpur 761002, Orissa, India</i> G. S. Tripathi <i>Department of Physics, Berhampur University, Berhampur 760007, Orissa, India</i>		POSTER43
59	Study of the Tunneling Conductance in High-T_C Superconductors	K. L. Mohanta¹ and G. C. Rout² <i>¹Department of Physics, ITER, Siksha O Anusandhan University, Bhubaneswar-751030, India.</i> <i>²Condensed Matter Physics Group, P.G. Deptt. of Physics and Ballistics, F. M. University, Balesore-756019, India.</i>	YES	ORAL16
60	Structural and transport studies of ZnS films prepared by Doctor Blade's technique	Lalhriatzuala, H. S. Jha, Mukesh Singh, Asha Yadav, Anjani K. Maurya and Pratima Agarwal <i>Indian Institute of Technology Guwahati, Guwahati, India 781039</i>	YES	POSTER44
61	Optical properties of chemical solution processed lead sulphide (PbS) thin films	L Rajen Singh¹ and A Rahman <i>Department of Physics Gauhati University Guwahati 781 014</i> H Basantakumar Sharma <i>Department of Physics Manipur University Imphal 795 003</i>	YES	POSTER45
62	Hysteresis in Anti-Ferromagnetic Random-Field Ising Model	Lobisor Kurbah and Prabodh Shukla <i>Physics Department North Eastern Hill University Shillong-793022, India</i>	YES	POSTER46
63	Low temperature synthesis of ZnO nanoparticles doped with Dy³⁺ ions and photoluminescence study	L.Rabindra Singh and S. Dorendrajit Singh <i>Department of Physics, Mizoram University</i>	YES	POSTER47
64	Production of Titanium Oxide nanoparticles and their interaction with human genomic DNA	M. Patowary¹, D. Mohanta¹, N .Paul¹, S. Baruah², A. Mahanta² <i>¹Department of Physics, Tezpur University, ²Department of Molecular Biology and Biotechnology, Tezpur University, P.O Napaam, Tezpur 784028, Assam, India</i>	YES	POSTER48

65	Synthesis of tri-functional Ni_{core}-Au_{shell} nano-chain by DNA	Madhuri Mandal, Bipul Das, Debasish Sarkar, Kalyan Mandal <i>Material Sciences Division, S. N. Bose National Centre for Basic Sciences, Block JD, Sector III, Salt Lake, Kolkata 700 098, India</i>	YES	ORAL17
66	120 MeV Silver Ion Irradiation induced Structural and Optical Response of Nanoscale PbTiO₃ systems	M. Borah, D. Mohanta <i>Nanoscience Laboratory, Department of Physics, Tezpur University, Tezpur-784028, Assam,</i>	YES	POSTER49
67	Dielectric and conductivity studies on 90 MeV O⁷⁺ ion irradiated PEO/Na⁺ MMT based single ion conductor	M. Deka and A. Kumar <i>Materials Research laboratory, Dept. of Physics, Tezpur University, Napaam, Tezpur784028</i>	YES	POSTER50
68	Ascorbic acid coated FePt nanoparticles for Imaging purpose	M. Gogoi¹, M. Ansari², P. Deb¹, E. Kalita² and A. B. Patel³ <i>¹Department of physics, Tezpur University (A central University), Assam, India 784028</i> <i>²Department of Molecular Biology & Biotechnology, Tezpur University (A central University), Assam, India 784028</i> <i>³Center for Cellular & Molecular Biology, Uppal road, Hyderabad 500 007</i>	YES	POSTER51
69	Interaction of a laser dye with a floating phospholipid monolayer	Mitu Saha, D. Bhattacharjee and Syed Arshad Hussain <i>Department of Physics, Tripura University, Suryamaninagar-799022, Tripura, India</i>	YES	POSTER52
70	Fabrication and characterization of n-type porous silicon	Mintu Das and D. Sarkar <i>Department of physics, Gauhati universityGuwahati-781014, Assam, india</i>	YES	POSTER53
71	Magnetic field induced metal-insulator transition in a Kagome lattice nanoribbon	Moumita Dey¹, Satanu K. Maiti^{1, 2}, and S. N. Karmakar¹ <i>¹Theoretical Condensed Matter Physics Division, Saha Institute of Nuclear Physics, 1/AF, Bidhannagar, Kolkata-700 064, India</i> <i>²Department of Physics, Narasinha Dutt College, 129 Belilious Road, Howrah-711 101, India</i>	YES	POSTER54

72	Nature of spreading of non-Newtonian fluids on solid surfaces under different pressure	M Dutta Choudhury <i>Jadavpur University</i>		POSTER55
73	Study of Au/(n)CdSe Thin Film Schottky Barrier Junctions	Mothura Nath Borah¹, S. Chaliha², P. C. Sarmah³ and A. Rahman⁴ ¹ <i>Deptt. of Physics, D.R. College, Golaghat-785621, India</i> ² <i>Department of Physics, Bahona College, Jorhat-785101, India</i> ³ <i>Electronics division, NEIST, Jorhat-785006, India</i> ⁴ <i>Deptt. of Physics, Gauhati University, Guwahati-781014, India</i>	YES	ORAL18
74	Dimensional fluctuation in YBCO+xBZT Superconductor	M. Sahoo, R.Das, A. Kujur and D. Behera <i>Department of Physics, National Institute of Technology Rourkela</i>	YES	ORAL19
75	Dielectric Properties of Complex Perovskite Sm(Cu_{1/2}Ti_{1/2})O₃	¹ Nishant Kumar, ¹S. Prasad, ² T.P.Sinha ¹ <i>Department of Physics, T.M.B.U., Bhagalur, Bihar</i> ² <i>Department of Physics, Bose Institute, Kolkata</i>		POSTER56
76	Structural and optical properties of PVA capped nanocrystalline lead sulfide films deposited on glass and mica substrates	N Choudhury¹, M P C Kalita² and B K Sarma² ¹ <i>Department of Physics, Pub Kamrup College, Baihata Chariali 781381</i> ² <i>Department of Physics, Gauhati University, Guwahati 781014</i>	YES	ORAL20
77	Hole- polaron and Hole-bipoplaron in 2D t-J model With Phonon Mediated Interaction	N S Mondal⁽¹⁾ and N K Ghosh⁽²⁾ ⁽¹⁾ <i>Department of Science and Humanities, Purulia Polytechnic, Purulia-723147, West Bengal, India</i> ⁽²⁾ <i>Department of Physics, University of Kalyani, Kalyani-741235, West Bengal, India</i>	YES	POSTER57
78	Model Study of Magnetic Field Dependent Resistivity of Manganite System	Nilima Parhi¹ and G. C. Rout² ¹ <i>Department of Physics, M. P. C.(Autonomous) College, Baripada, Orissa India-757001 .</i> ² <i>Condensed Matter Physics Group, Department of Applied Physics and Ballistics, F. M. University, Balasore, Orissa, India-756019.</i>	YES	POSTER58
79	Evolution of Microstructure and Surface topography of gold thin films under	P.Dash¹, B.N. Dash², P. Mallick³, H. Rath¹, T. Basu⁴, T. Som⁴ and N.C.Mishra¹ ¹ <i>Department of Physics, Utkal</i>	YES	POSTER59

	annealing in vacuum	<i>University, Bhubaneswar-751004, India</i> ² <i>Department of physics, Salipur college, Salipur, 754103, India</i> ³ <i>Departments of Physics, North Orissa University, Baripada-757003, India</i> ⁴ <i>Institutes of Physics, Bhubaneswar-751005, India</i>		
80	Effect of Molarity on Structural and Optical Properties of CdS Nanocrystalline Thin Films	Prince Kumar Mochahari, Bijoy Barman, K.C. Sarma <i>Department of Instrumentation & USIC, Gauhati University, Gauhati, Assam - 781014</i>	YES	POSTER60
81	Effect of surfactant on the second metastable state in superheated emulsions	P.K. Mondal[*], R. Sarkar and B.K. Chatterjee <i>Dept. of Physics, Bose Institute, 93/1 A.P.C. Road, Kolkata 700009, India.</i> <i>*Presently at Saha Institute of Nuclear Physics, 1/AF Bidhannagar, Kolkata 700064, India.</i>		POSTER61
82	Synthesis of core-shell AgBr/TiO₂ nanostructures and study of their optical properties	Priyanka Basyach¹, Amarjyoti Choudhury¹ <i>¹Dept. of Physics, Tezpur University, Assam-784028</i>	YES	POSTER62
83	Superconductor to insulator transition in a superfluid Fermi gas in a harmonic confinement	Poulumi Dey and Saurabh Basu <i>Department of Physics, IIT Guwahati, Guwahati Assam 781039, India</i>	YES	POSTER63
84	From polymer entropy to quantum entanglement: interpretation to negative entropy	Poulomi Sadhukhan and Somendra M Bhattacharjee <i>Institute of Physics, Bhubaneswar – 751005, India.</i>	YES	ORAL21
85	Distribution of Persistent Current Among Different Channels of a Zigzag Nanotube	Paramita Dutta^{1,†}, Santanu K. Maiti^{1,2,‡} and S. N. Karmakar¹ <i>¹Theoretical Condensed Matter Physics Division, Saha Institute of Nuclear Physics, 1/AF, Bidhannagar, Kolkata-700 064, India</i> <i>²Department of Physics, Narasinha Dutt College, 129 Belilious Road, Howrah-711 101, India</i>	YES	POSTER64
86	Effect of Ag doping on CdS Thin Film Transistors	P. Gogoi and R. Saikia <i>Department of Physics, Sibsagar College, Joysagar-785665, Assam, India</i>	YES	POSTER65
87	Synthesis of TiO₂ nanoparticles and optical studies of Nd³⁺-	P. J. Dihingia and S.Rai <i>Laser and Spectroscopy Laboratory, Department of Physics, Dibrugarh</i>	YES	POSTER66

	doped TiO₂-SiO₂ composite	<i>University, Dibrugarh-786004 (Assam), India.</i>		
88	Optical transitions and frequency upconversions of Er³⁺ doped in Al(NO₃)₃-SiO₂ sol-gel glasses	Pankaj Dutta, S Rai <i>Department of Physics, Dibrugarh University</i>	YES	ORAL22
89	ab- initio study of YN under high pressures : A LDA+ U approach	Pooja rana, S. K. Singh, S. Kulshrestha, and Dinesh . C. Gupta <i>Condensed Matter Theory Group, Jiwaji University, Gwalior- 474 011</i>	YES	POSTER67
90	Study the evolution of microstructure, surface topography and optical absorption band of 107 MeV Ag ion irradiated NiO thin films	P. Mallick^{1,4,*}, S. Majumder², Shikha Varma², D.K. Avasthi³, D. Kanjilal³ and N.C. Mishra⁴ <i>¹Department of Physics, North Orissa University, Baripada 757003, India</i> <i>²Institute of Physics, Sachivalaya Marg, Bhubaneswar 751005, India</i> <i>³Inter-University Accelerator Center, Aruna Asaf Ali Marg, P.O. Box 10502, New Delhi 110067, India</i> <i>⁴Department of Physics, Utkal University, Vani Vihar, Bhubaneswar, Orissa 751004, India</i>	YES	POSTER68
91	Growth and Optical Properties of ZnO nanosheets	Pijus Kanti Samanta, Ashok Kumar Bandyopadhyaya <i>Department of Physics, Ghatal Rabindra Satabarsiki Mahavidyalaya, Paschim Medinipur, West Bengal</i> Partha Roy Choudhury <i>Department of Physics & Meteorology, IIT Kharagpur, West Bengal</i>	YES	POSTER69
92	Dielectric and AC conductivity behavior in Mn doped (Na,K,Li) (Nb,Ta,Sb)O₃ lead free piezoelectric ceramics	Rashmi Rani^{1,*}, Radheshyam Rai², Seema Sharma¹ and Andrei L Kholkin² <i>¹Ferroelectrics Research Laboratory, Dept of Physics, A N College, Patna 800013, India</i> <i>²Departamento de Engenharia Ceramica e do Vidro, Campus Universitario de Santiago, Aveiro University, 3810-193 Aveiro, Portugal</i>	YES	POSTER70
93	Dielectric Dispersion and Impedance Spectroscopy of Lead-	Raju Kumar¹, Dhananjay K Sharma¹, Radheshyam Rai² and	YES	POSTER71

	free Gd doped BaZrTiO₃ Ferroelectric Ceramics	Seema Sharma¹ <i>¹Ferroelectrics Research Laboratory, Deptt. of Physics, A N College, Patna 800013, India</i> <i>²Departamento de Engenharia Ceramica e do Vidro, Campus Universitario de Santiago, Aveiro University, 3810-193 Aveiro, Portugal</i>		
94	Anisotropic effective g-factors in Pb_{1-x-y}Mn_xSn_ySe	<u>R L Hota</u> <i>Department of physics, Rajiv Gandhi University of Knowledge and Technology, AP-IIIT, Nuzvid – 521 210, Andhra Pradesh</i>	YES	ORAL23
95	Ag/Fe/Ag multilayer for magneto optic surface plasmon resonance studies	<u>R. Boruah, G.A.Ahmed and A. Choudhury.</u> <i>Department of Physics, Tezpur University, Assam, India, Pin: 784028</i>	YES	POSTER72
96	Magnetic Properties and Magnetocaloric Effect in Ni₅₅Mn_{21-x}Ga_{24+x} alloys	<u>Rahul Das, A. Perumal and A. Srinivasan</u> <i>Department of Physics, Indian Institute of Technology Guwahati, Guwahat –781039, India</i>	YES	ORAL24
97	Effects of Three-body Scattering Processes on the BCS-BEC Crossover	<u>Raka Dasgupta</u> <i>S. N. Bose National Centre for Basic Sciences Block-JD, Sector-III, Salt Lake, Kolkata 700098</i>	YES	ORAL25
98	Energy Transfer and Concentration Quenching in Red Dye Tetraphenylporphyrin Doped Electroluminescence Devices	<u>Raghu Nath Bera</u> <i>Department of Physics, Basirhat College, Basirhat, North 24 Parganas, WB 743412, India</i>	YES	ORAL26
99	Understanding wasp-waisted hysteresis loops in geological rocks	<u>R S Kharwanlang and Prabodh Shukla</u> <i>Physics Department North Eastern Hill University Shillong-793 022, India</i>	YES	POSTER73
100	Effects of Additive and Multiplicative Noise on Emergent Bistability	<u>Savantari Ghosh and Indrani Bose</u> <i>Department of Physics 93/1, A.P.C. Road, Kolkata-700009</i>	YES	POSTER74
101	Studies on the Dynamics of Sand Pile	<u>Subhankar Ghosh</u> <i>Department of Physics St. Xavier's College, Kolkata 700016</i>	YES	ORAL27

102	Synthesis and Characterization of Zinc Oxide Films by Solution Route	S. Kar¹, S. Kundoo² <i>¹Department of Physics, R. K. Mission Sikshanamandira, Belur Math, Howrah, India.</i> <i>²Department of Physics, Govt. College of Engg. And Leather Technology, Kolkata, India.</i>	YES	POSTER75
103	Irradiation induced modifications in the morphology, conformation, optical band gap and Urbach tail width of polyaniline nanofibers	Somik Banerjee and A. Kumar <i>Materials Research Laboratory, Department of Physics, Tezpur University, Tezpur 784028, Assam</i>	YES	POSTER76
104	Irradiation induced crossover from 1D to 3D charge transport properties in PEDOT-TiO₂ nanocomposites	Smritimala Sarmah and A. Kumar <i>Materials Research Laboratory, Dept. of Physics, Tezpur University, Tezpur 784028, Assam</i>	YES	ORAL28
105	Structural behaviour and its connection to low thermal expansivity of NZP type solids MZr₂P₃O₁₂ (M=Li⁺, Na⁺, K⁺, Rb⁺, Cs⁺) – A Monte Carlo study	Supriya Roy and P. Padma Kumar <i>Department of Physics, Indian Institute of Technology Guwahati, Guwahati-781039, Assam, India.</i>	YES	POSTER77
106	Unique uniaxial zone characteristics in si (low bg)-sic (wide bg) double drift heterojunction	S. P. Pati*, P. R. Tripathy[#] and[@] S. K. Choudhury <i>[@]National Institute of Science and Technology, Berhampur, Orissa</i> <i>[#] PIET, Rourkela, [@] Department of Physics, Sambalpur University</i>	YES	ORAL29
107	Optical Properties of ZnO nanofibre thin films deposited by spray pyrolysis	¹S. K. Chakrabarti, ¹I.S.Jha and ²B.P.Singh¹ <i>¹Tribhuvan University, Nepal ²T.M. Bhagalpur University, Bihar</i>	YES	ORAL30
108	Tetragonal Barium Titanate Thin Film via Pulsed Laser Deposition Technique	Satchi Kumari and Alike Khare <i>Laser and Photonics Lab, Department of Physics Indian Institute of technology Guwahati, Guwahati-781039, India</i>	YES	POSTER78
109	Electronic structure of 4 Å diameter carbon nanotube placed on patterned hydrogen terminated Si(001):3×1 surface and the effect of electric field	Shyamal Konar, Prajna Mukherjee and Bikash C. Gupta <i>Department of Physics, Visva-Bharati, Santiniketan 731235, India</i>	YES	ORAL31

110	Electronic States of Selenium Monoxide – a theoretical study	Surva Chattopadhyaya <i>Department of Physics, Tripura University, Suryamaninagar, West Tripura, -799 022, Tripura</i>	YES	ORAL32
111	Determination of Rashba and Dresselhaus spin-orbit fields	Santanu K. Maiti ¹ <i>Theoretical Condensed Matter Physics Division, Saha Institute of Nuclear Physics, 1/AF, Bidhannagar, Kolkata-700 064, India</i> ² <i>Department of Physics, Narasinha Dutt College, 129 Belilious Road, Howrah-711 101, India</i>	YES	ORAL33
112	Magneto-transport in a Dimer Network: Evidence of a Mesoscopic Switch	Srilekha Saha¹, Santanu K. Maiti^{1,2}, and S. N. Karmakar¹ ¹ <i>Theoretical Condensed Matter Physics Division, Saha Institute of Nuclear Physics, 1/AF, Bidhannagar, Kolkata-700 064, India</i> ² <i>Department of Physics, Narasinha Dutt College, 129 Belilious Road, Howrah-711 101, India</i>	YES	POSTER79
113	Negative Photoconductivity in Silver Nanocubes Prepared by Simple Photochemical Method	Sulochana Deb and Deepali Sarkar <i>Department of Physics, Gauhati University Guwahati-781014, Assam, India</i>	YES	POSTER80
114	Synthesis and characterization of ZnO, ZnS and ZnO/ ZnS core/shell nanocomposites.	Sujata Deb^a, P.K. Kalita^b and P. Dutta^c ^a <i>Department Of Physics, Royal Group Of Institutions, Guwahati-35</i> ^b <i>Department Of Physics, Guwahati College , Guwahati-21</i> ^c <i>Department Of Electronics Science and Communication Technology, Gauhati University , Guwahati-14</i>	YES	POSTER81
115	Thermodynamic properties of the 2D extended Hubbard Model	Subhadip Nath, Sangita Bose and Monalisa Paul <i>Department of Physics, University of Kalyani, Kalyani -741235, West Bengal, INDIA.</i>	YES	POSTER82
116	Influence of doping on the carrier contribution to elastic constants of compound semiconductors (InSb)	Subhamoy Singha Roy <i>Physics Unit, JIS College of Engineering under West Bengal University of Technology, Kalyani, Nadia-741235, India</i>	YES	ORAL34
117	Study of spin susceptibility of mixed valence systems	S. K. Bhowmick and N. K. Ghosh <i>Department of Physics, University of Kalyani, Kalyani-741235, Nadia, W.B., India</i>	YES	POSTER83

118	Study of low temperature magnetic properties of $\text{Pr}_{1-x}\text{Nd}_x\text{MnO}_3$ ($x=0.3, 0.5, 0.7$)	Sudipta Pal, Sanjay Biswas, Esa Bose⁺ <i>Department of Physics, University of Kalyani, Kalyani, Nadia, W.B</i> ⁺ <i>Department of Engineering Physics, B.P.Poddar Institute of Technology, Kolkata.W.B</i>	YES	POSTER84
119	Structural and Electronic Properties of LuSb: A Full-Potential Study	Sanjay K. Singh, P. Rana, S. Kulshresth and D.C. Gupta <i>Condensed Matter Theory Group, School of Studies in Physics Jiwaji University, Gwalior – 474 011 (M.P.)INDIA</i>	YES	POSTER85
120	Study of the Dynamic Band Jahn-Teller Effect on Resistivity of the CMR Manganites	Saswati Panda¹ and G.C. Rout² ¹ <i>Trident Academy of Technology, F2/A, Chandaka Industrial Estate, Bhubaneswar - 751 024.</i> ² <i>Condensed Matter Physics Group P. G. Deptt. of Applied Physics and Ballistics, F. M. University, Balasore - 756 019.</i>	YES	POSTER86
121	When A Magnetic Moment Is Subdivided, Do The Fragmented Moments Interact Among Themselves?	S. Aravamudhan <i>North Eastern Hill University Shillong 793022</i>	YES	ORAL35
122	A density-functional theory based prediction of shape-memory effect and magnetic structure in Mn_2NiSn	Souvik Paul, Biswanath Dutta, and Subhradip Ghosh <i>Department of Physics, Indian Institute of Technology Guwahati Guwahati, Assam 781039, India</i>	YES	POSTER87
123	Electrical Properties of Pr-Ba-Cu-O Thin Films	¹S Bhattacharjee and ²B Baishya ¹ <i>Department of Physical Science, Gauhati University</i> ² <i>Department of Physics, Dibrugarh University</i>	YES	POSTER88
124	Eu^{3+} doped zirconia: A potential single lanthanide ion doped white emitting nanocrystalline phosphor	S. Dhiren Meetei^a, S. Dorendrajit Singh^a, V. Sudarsan^b, N. Shanta Singh^a, R. S. Ningthoujam^b ^a <i>Physics Department, Manipur University, Canchipur, Imphal – 795003, India</i> ^b <i>Chemistry Division, Bhabha Atomic Research Centre, Mumbai- 400085, India</i>	YES	POSTER89
125	Role of confining strength of the potential on Stochastic Resonance	Shantu Saikia¹, A. M. Jayannavar², and M.C. Mahato³ ¹ <i>Department of Physics, St.</i>	YES	POSTER90

	in a driven bistable potential.	<i>Anthony's College, Shillong-793001</i> ² <i>Institute of Physics, Sachivalaya Marg, Bhubaneswar-751005</i> ³ <i>Department of Physics, North Eastern Hill University, Shillong-793022</i>		
126	Thickness and temperature dependence capacitance-voltage characteristics and tunability of nanocrystalline BST thin films	<u>Soram Bobby Singh</u> and H Basantakumar Sharma <i>Department of Physics, Manipur University, Imphal –795003</i>	YES	POSTER91
127	Structural, dielectric and magnetic properties of multiferroic (BiFeO₃)_{1-x}-(BaTiO₃)_x nanocomposites prepared by sol-gel process	S Bobby Singh, <u>Ng. Boinis Singh</u> and H B Sharma <i>Department of Physics, Manipur University, Canchipur-795 003, India</i>	YES	POSTER92
128	A density functional based study of structural properties in rare earth hexaborides using density functional theory	¹ <u>Sandeep</u> , ² M.P. Ghimire , ¹ D.P.Rai , ³ P.K.Patra and ^{1,4} R.K.Thapa ¹ <i>Condensed Matter Theory Group, Department of Physics, Mizoram University</i> ² <i>Nepal Academy of Science and Technology, Kathmandu, Nepal</i> ³ <i>Science Centre, NEHU, Shillong</i> ⁴ <i>Condensed Matter Physics Research Centre, New Horizon Institute, Burwal, Rupendehi, Nepal</i>	YES	POSTER93
129	Scaling Deposition of Non-ohmic Transport in La_{0.60}Y_{0.07}Ca_{0.33}MnO₃	<u>T. N. Ghosh</u>¹, S. Chattopadhyay², A. Sarkar³, S. C. Saha¹, U. N. Nandi^{4,*} and D. Jana⁵ ¹ <i>Department of Electronics, Vidyasagar University, Midnapore – 721 102, India</i> ² <i>Department of Physics, Maulana Azad College, Kolkata-700 013, India</i> ³ <i>Department of Physics, Bangabasi Morning College, Kolkata – 700 009, India</i> ⁴ <i>Department of Physics, Scottish Church College, Kolkata – 700006, India.</i> ⁵ <i>Department of Physics, University of Calcutta, Kolkata – 700 009, India</i>	YES	POSTER94

130	Quantum corrections to thermodynamic behavior of polar molecular fluids	Tarun Kumar Dey <i>Post Graduate Department of Physics , L.S College , BRA Bihar University Muzaffarpur-842001</i>	YES	ORAL36
131	Reaction diffusion models of pattern formation in the presence of surface defects	Trilochan Bagarti¹, Anupam Roy², K. Kundu¹ and B. N. Dev² <i>¹Institute of Physics, Sachivalaya Marg, Bhubaneswar-751005, India ²Department of Materials Science, Indian Association for the Cultivation of Science, 2A and 2B Raja S. C. Mullick Road, Jadavpur, Kolkata 700032, India</i>	YES	ORAL37
132	Study of In_xAl_{1-x}N/InN/GaN-based HEMT with Strained InN Channel	T. R. Lenka¹ and A. K. Panda² <i>National Institute of Science and Technology (NIST), Palur Hills, Berhampur, Odisha, 761008, India.</i>	YES	POSTER95
133	ZnS-PVA nanosphere nano composite thin film for optoelectronic application	U. Baishya and D. Sarkar <i>Department of Physics, Gauhati University, Guwahati-781014, India</i>	YES	POSTER96
134	Frequency dependence impedance study of polymer ceramic composite thick film	V.Senthil^{1*}, R.Muduli¹, T.Badapanda², S.Panigrahi¹, A.C.Bose³ <i>¹Department of Physics, National Institute of Technology, Rourkela, Orissa-736008, India ²Department of Physics, Purusotham College of Technology, Rourkela, Orissa-736008, India ³Department of Physics, National Institute of Technology, Tiruchirapalli-620015, India</i>	YES	POSTER97
135	Phase formation and optical study of SrBi₂Ta₂O₉ ceramic	V.Senthil¹, T.Badapanda², S.Panigrahi¹, T.P.Sinha³ <i>¹Department of Physics, National Institute of Technology, Rourkela, Orissa-736008, India ²Department of Physics, Purusotham College of Technology, Rourkela, Orissa-736008, India ³Department of Physics, Bose Institute for Basic Science, Kolkata-700009, India</i>	YES	ORAL38

136	Wettability studies of Aluminum oxide substrate using binary mixtures of aniline and alcohols.	V.Madhurima, <u>Jonathan Lalnunsiam</u> <i>Department of Physics, Mizoram University, Aizawl –796009, India</i>	YES	POSTER98
137	Estimation of single-ion susceptibilities, crystal-field and exchange interactions in geometrically frustrated pyrochlore Gd₂Ti₂O₇	<u>Yatramohan Jana</u>, Aksar Ali Biswas, Jahangir Alam <i>Department of Physics, University of Kalyani, Kalyani, Nadia, W.B., India</i>	YES	ORAL39
138	Determination of kinetic parameters of TL peaks of BaSO₄:Eu,Dy phosphors	<u>Y. Rangeela Devi</u>^{1,2} and S. Dorendrajit Singh¹ <i>¹Department of Physics, Manipur University, Canchipur, Imphal-795003, INDIA</i> <i>²Pachhunga University College, Aizawl, Mizoram</i>	YES	POSTER 99

Note: Those who have not yet confirmed their participation are requested to do so by one week. Also indicate the presenter's name where it is missing.