

25th National Conference on Condensed Matter Physics Condensed Matter Days-2017 (CMDAYS17) 29-31 August 2017



Organized by Department of Physics, Tezpur University, Napaam, Tezpur- 784028, Assam

List of papers to be presented in CMDAYS-2017

Category: Oral (Duration = 12+3=15 mins)

SI. No.	Presenter's name	Affiliation	Title of paper	Mode of presentation
1	Shahbaz Alam	Aliah University, Kolkata	The surface morphology and optical properties of amorphous diamond like carbon prepared form sucrose	Oral
2	Sashi S. Behera	Berhampur University, Odisha	Carrier-induced magnetism in diluted magnetic tin telluride	Oral (Special Session)
3	Tarun K. Dey	B.R.A Bihar University, Muzaffarpur	Study of thermophysical properties of nanofluid systems database	Oral
4	Abu M. P. Hussain	Cotton University, Assam	Shell thickness dependent structural and optical properties of lattice matched HgTe/CdTe core/shell structure	Oral
5	Saumen Acharjee	Dibrugarh University, Assam	Effect of magnetic field on magnetization reversal and switching time of a current biased F S F spin valve system	Oral
6	Ali Akbar	Gauhati University, Assam	Effect of cadmium (Cd) source concentration on structural and optical properties of polyaniline (PANI)- cadmium sulphide (CdS) composite	Oral
7	Biswajit Choudhury	IASST, Assam	Blue emission from graphitic carbon nitride nanosheet	Oral
8	Ujjal Saikia	IASST, Assam	Point defect energetics and their interaction in fcc/bcc semi-coherent metallic interfaces	Oral

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9	Anup Pattanaik	IGIT, Sarang, Odisha	Different physical parameters of compound semiconductors from refractive index	Oral
10	Pallabi Kundu	IIT Dhanbad	Integral equation theory for a system of 2-D Gay-Berne liquid crystals	Oral
11	Vipul Sharma	IIT Mandi	Real time monitoring of photocatalytic organic transformations on biomimetic substrates using surface enhanced Raman spectroscopy	Oral
12	Suneel Kumar	IIT Mandi	N-ZnO nanosheets loaded over $g-C_3N_4$ nanosheets to form highly Efficient 2D- 2D heterojunctions with enhanced visible light activity for removal of diverse industrial pollutants	Oral
13	Rajkumar Modak	IIT Guwahati	Annealing temperature dependent structural transition and associated magnetic properties of Fe substituted thin films of Ni-Mn-In alloy	Oral
14	Pratap Behera	IIT Guwahati	Structural, dielectric and magnetic studies of Zn doped Y-type hexaferrite	Oral
15	Ganesh C. Paul	IOP Bhubaneswar	Adiabatic quantum transport through superconducting hybrid junctions of Silicene	Oral
16	K. Chakraborty	Jadavpur University, Kolkata	Influence of single walled carbon nano tubes (SWCNT) on series resistance of Rose Bengal and Methyl Red dye based organic photovoltaic cell	Oral
17	Shantanu Roy	Jadavpur University, Kolkata	Schottky specific heat and nuclear hyperfine properties of TmF ₃	Oral
18	Ritika Bashistha	Kaziranga University, Assam	An alternative to liquid electrolytes in PV cells by solid polymer electrolytes and hence measuring the fill factors and efficiencies of the PV cell	Oral
19	S. Dorendrajit Singh	Manipur University, Imphal	Effect of heating rate on the Thermoluminescence (TL) properties of the β -irradiated Li ₂ B ₄ O ₇ :Ag nanoparticles	Oral

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20	Laihnuna	Mizoram University, Aizawl	Optical and transport properties of III-V binary compound semiconductors	Oral
21	Himanshu Joshi	Mizoram University, Aizawl	Thermoelectric properties of tetragonal Half-Heusler compound HfGeSb: A probe from Density Functional Theory (DFT)	Oral
22	B. R. K. L. Lyngdoh Mawphlang	NEHU, Shillong	Differential transform study of cantilevered carbon nanotube based on nonlocal model	Oral
23	L. Robindro Singh	NEHU, Shillong	Preparation of highly luminescence of $Ba_{1-x}Y_xSO_4$: Eu nanoparticles a new class of material	Oral
24	Ivan Skhem Sawkmie	NEHU, Shillong	The two dynamical states in sinusoidal potentials: an analog simulation experiment	Oral
25	Th. Gomti Devi	NERIST, Arunachal Pradesh	Development of different substrates for SERS measurement of L-proline molecule	Oral
26	Ramanuj Mishra	NERIST, Arunachal Pradesh	Effect of gold nano-particles on dielectric properties of 4-N-Hexyloxy-4'-Cyanobiphenyl (6OCB)	Oral
27	Susmita Roy	SINP, Kolkata	Giant low- field magnetocaloric effect in single crystalline EuTi _{0.85} Nb _{0.15} O ₃	Oral
28	Arnab Pariari	SINP, Kolkata	Prominent metallic surface conduction and the singular magnetic response of topological Dirac fermion in three- dimensional topological insulator Bi _{1.5} Sb _{0.5} Te _{1.7} Se _{1.3}	Oral (Special Session)
29	Pranjal K. Gogoi	NUS, Singapore	Oxygen passivation mediated tunability of trion and excitons in MoS ₂	Oral
30	S. Kundu	TIFR, Mumbai	Role of exchange splitting in electronic phase competition in Pb _{1-x} Sn _x Te	Oral
31	Manish Debbarma	Tripura University, Agartala	Effects of doping of mercury (Hg) atom(s) on structural, electronic and optical properties of binary zinc chalcogenides- a DFT based theoretical investigation	Oral

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34	Deep Kumar Kuri	TU, Tezpur	Energetic proton generation from intense laser-plasma interactions	Oral
35	Dimpi Paul	TU, Tezpur	PCFPS and PCFPA: computational tools for study and analyze modal parameter of photonic crystal fiber incorporated with GUI on different material domain	Oral
36	Homen Lahan	TU, Tezpur	TiO ₂ nanospheres anatase phase: a new class of anode material for aqueous aluminium-ion batteries	Oral
37	Rajiv Borah	TU, Tezpur	Electrospun MEH-PPV:PCL nanofibers for enhanced cell behaviour and electrical stimulation of PC12 cells	Oral
38	Anindita Bora	TU, Tezpur	Carbon black/polyaniline nanotube composite as electro-catalyst for triiodide reduction in dye sensitized solar cells	Oral
39	P. Mandal	SINP, Kolkata	Topological materials: A new concept in condensed matter Physics	Oral (Special Session)
40	Manjit Borah	TU, Tezpur	Electron paramagnetic resonance (EPR) and ferroelectric behaviour of rare earth- doped barium titanate nanosystems	Oral

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2	Sukhdeo Singh	N.N.College, Singhara (Vaishali) B.R.A.Bihar University	Theoretical Study of the input /output characteristics of coherent photon transport in a semiconductor wave guide cavity system with a quantum dot	Poster
3	Somnath Bhattacharya	Barasat Govt. College, Kolkata	Estimate of time-scales in the current relaxation for percolative RRTN model	Poster
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6	D. Das	Cotton University	Effect of CdS shell thickness on PbS/CdS core/shell nanoparticles and its applications	Poster
7	Arindam Boruah	Dibrugarh University	Effect of silver nanoparticles on the photoluminescence behavior of Rhodaminme-B	Poster
8	Bishwajit Boruah	Dibrugarh University	A theoretical study of H₂ adsorption on transition metal doped Al clusters: a first principle DFT study	Poster
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87	Abhinab J. Borah	Dibrugarh University, Assam	Scavenging of Hg ²⁺ from Hg ²⁺ bound thymine metallobase complexes by neutral, cationic and anionic a Au atoms: a first principle study	Poster

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89	Bikash Sarma	Gauhati University, Assam	Effect of deposition power and annealing time on the microstructural and optical properties of ZnO thin films used as the bottom layer of multilayer transparent conductors	Poster
90	Ashim C. Bhowal	IASST, Assam	Studies on optical and electrical behaviours of PEDOT: PSS thin films in presence of charged gold nanoparticles	Poster
91	Bhargab Deka	IIIT, Imphal	Structural and magnetic properties of inverse Heusler alloys: Mn ₂ CoAl and Ti ₂ MnAl	Poster
92	Sk Noor Nabi	IIT Guwahati	Study of synthetic versus external magnetic field on a spin-1 ultracold Bose gas	Poster
93	S. Sen	Jadavpur University, Kolkata	Effect of single walled carbon nanotubes (SWCNTs) on the band bending of Rose Bengal (RB) dye based photovoltaic devices	Poster
94	Mahesh Ram	NEHU, Shillong	A first principle study of electronic and magnetic properties of Full- Heusler alloy Mn₂ZnSi	Poster
95	Mukesh Sharma	Tezpur University	Highly active Pd-NiO nanocatalyst over zeolite-Y <i>via</i> a post synthetic approach	Poster
96	D. Siboh	Rajiv Gandhi Univertsity, Arunachal Pradesh	Quantum confinement induced shift in energy band gap and mapping of electron-hole probability distribution within spherical quantum dot	Poster

- No separate letter of acceptance will be sent unless request is made on or before 10th August 2017.
- All the selected participants are requested to send the scanned copy of the duly filled in registration form to <u>cmdays2017@gmail.com</u> on or before 10th August 2017.
- Accommodation related information will appear after receiving registration form.
- Registration fee is to be collected by cash only at the registration desk.
- The list of invited talks, information related to accommodation along with the programme schedule of the event will be displayed on the university website <u>www.tezu.ernet.in</u> on 20th August 2017
- Tezpur University is a no-smoking, polythene free ecofriendly zone.

Guide map to reach Tezpur University



The university is located about 15 km away from the Tezpur city, the headquarters of the Sonitpur district of Assam. It can be reached by road from Guwahati, the capital city of Assam and gate way to the North East. Tezpur is connected by road to Guwahati via NH 52 (presently NH 15) and NH 37. Guwahati is very well connected to the rest of the country by air and train. The participants can also opt for the Kolkata-Tezpur Allied Airlines flight which operates thrice a week via Guwahati.