



# 25<sup>th</sup> DAE-BRNS National Laser Symposium (NLS-25)

December 20 - 23, 2016

KIIT University, Bhubaneswar



## Poster Presentation : Day-3

Board No.	Paper ID	CP-ID	Title	Authors
1	8306	CP-4.29	Multiple Filamentation Of Super Gaussian Beam In Chalcogenide Glass And Role Of Noise	Chironjit Hazarika, Abhijeet Das, Subrata Hazarika,
2	8323	CP-4.30	Squeezing And Higher Order Squeezing Of Quadrature In A Fabry-Perot Cavity Of Having One Fixed And One Movable Mirror	Nasir Alam, Swapan Mandal,
3	8327	CP-4.31	Trapping Of Laser Cooled 87rb Atoms In Spatially Separated Different Radio Frequency Dressed States	A. Chakraborty, S. R. Mishra, S. P. Ram, S. K. Tiwari, H. S. Rawat,
4	8336	CP-4.32	Study Of Third Order Optical Nonlinearity In CoFe <sub>2</sub> O <sub>4</sub> Nanoparticles Using Z-Scan Technique	Poonam Gaur, Rimpay, Nitish, B.P. Malik,
5	8338	CP-4.33	Femtosecond Nonlinear Optical Properties Of Ag-Au Alloy Nanoparticles	Bharathi M.S.S, Chandu Byram, Venugopal Rao Soma,
6	8343	CP-4.34	Investigation On The Transparency Properties Of An Atomic Vapour Medium Relative To Probe Field Propagation In Presence Of Two Strong Coherent Fields For A Six-Level Inverted-Y System	Arindam Ghosh, Khairul Islam, Nikhil Pal, Dipankar Bhattacharyya, Amitava Bandyopadhyay,
7	8346	CP-4.35	Structuring Of Entangled Photons Using Structured Pump Beam	Jabir M. V., Apurv Chaitanya Nellika, Goutam Kumar Samanta,
8	8347	CP-4.36	Synthesis And Flux Growth Of Ndpo <sub>4</sub> Single Crystal For Laser Applications	S. Sadhasivam, K. Jeganathan, N.P. Rajesh,
9	8348	CP-4.37	Nonlinear Interaction Of Oppositely Charged Vortices	Apurv Chaitanya N., Jabir M. V., J. Banerji, G. K. Samanta,
10	8350	CP-4.38	Continuous Wave Solutions In Spinor Ortho Positronium Condensate	Ishfaq Ahmad Bhat,
11	8367	CP-4.39	Nonlinear Optical Properties Of Ln:Pmma Nanocomposites	C. Debnath, S. Kar, S.K. Sharma, Sunil Verma, K.S. Bartwal, P.K. Gupta,
12	8374	CP-4.40	Observation Of Eia In The Absorption Signal Of A Probe Field Passing Through A Four-Level 'V' Type Atomic Vapour System In Presence Of A Control Beam	Kalan Mal, Khairul Islam, Amitava Bandyopadhyay,



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Board No.	Paper ID	CP-ID	Title	Authors
13	8379	CP-4.41	Probe Beam Intensity Dependent Asymmetry In Electromagnetically Induced Transparency Signal Of 87rb Atom.	Charu Mishra,A Chakraborty,A Srivastava,S.K. Tiwari,S.P. Ram,S.R. Mishra,H.S. Rawat,
14	8382	CP-4.42	A Compact And Versatile Design Of Two Dimensional Magneto Optical Trap For Slow Light Experiments	Sumit Bhushan,Raghavan K E,
15	8386	CP-4.43	Difference Frequency Generation In Aggase2 Crystal Pumped By Kta Crystal Based Optical Parametric Oscillator	Yogesh Kumar,Purnima Malhotra,A. T. Raghunath,
16	8394	CP-4.44	Nonlinear Optical Properties Of Bio-Synthesized Gold Nanoparticles	D Rithesh Raj,S Prasanth,C Sudarsanakumar,
17	8395	CP-4.45	Development And Characterization Of 87rb Atom Chip Magneto-Optical Trap	Vivek Singh,V. B. Tiwari,S. R. Mishra,H. S. Rawat,
18	8396	CP-4.46	Designing Phase Shifters Using Simulated Annealing Algorithm For Multiple Qpm	Siva Chellappa,Shiva Prabhakar,Narayanan Balaji,Toijam Sunder Meetei ,Krishnamoorthy Pandiyan,
19	8409	CP-4.47	Second Harmonic Generation Using Zno Nanofibers	Rudrashish Panda,Avanendra Singh,Sayantana Bhattacharya,Rudranarayan Samal,Pratap Kumar Sahoo,Prasanta Kumar Datta,Susanta Kumar Das, ,
20	8410	CP-4.48	Effect Of Silver Nanoparticle On The Normal Photoluminescence And Upconversion Photoluminescence Of Cdte Quantum Dots	Sabina Gurung,J. Jayabalan,Asha Singh,Salahuddin Khan,Rama Chari,
21	8431	CP-4.49	Role Of Carrier Envelope Phase On Temporal Distribution Of Electron-Positron Pairs Produced By Linearly E-Polarized Counterpropagating Laser Pulses	Chitradip Banerjee,Manoranjan Prasad Singh,
22	8433	CP-4.50	High Repetition Rate Airy Beam Generation In Higher-Harmonic Fractional Cavity Opo	A. Aadhi,Varun Sharma ,N. Apurv Chaitanya ,G. K. Samanta ,
23	8441	CP-4.51	Higher Order Squeezing In Degenerate Parametric Oscillator	Mohosin Alam,Swapan Mandal,



Poster Presentation : Day-3

Board No.	Paper ID	CP-ID	Title	Authors
24	8450	CP-4.52	Design Of Versatile 2-D Photonic Crystal Waveguide Mach-Zehnder Interferometer Using FDTD Technique With CPML Absorbing Boundary Condition.	Ashok Kumar M,Alok Sharan,
25	8486	CP-4.53	Measuring The Absence Of Coherent State	Sushamana Sharma,Rajshri Vyas,
26	8496	CP-4.54	Stabilization Of Dipolar Bose-Einstein Condensate In Free Space By Temporal Modification Of The Contact Interaction	Sabari Subramaniyan,Bishwajyoti Dey,
27	8499	CP-4.55	Development Of A Room Temperature Penning Ion Trap At BARC For Studies On Non-Neutral Plasma: A Status Report	P M Rao, A Reza, P Das
28	ThP-06		Metalloporphyrins, Derivatives Of Pyrazines And Pyridones For Third-Order Nonlinear Optical Applications	Siji Narendran N K
29	ThP-07		Multicomponent Solitons And Their Collisions In Certain Physically Interesting Integrable Nonlinear Dynamical Systems	Sakkaravarthi K
30	ThP-11		A Theoretical Study On The Effect Of Temperature On Supercontinuum Generation And Modulational Instability In Photonic Crystal Fiber	G Joshva Raj
31	8174	CP-5.1	Experiments And Simulations On Critical Power For Super-Continuum Generation With PCF In IR And Visible Region	Soumyodeep Dey,Sudhakara Reddy Bongu,
32	8184	CP-5.2	Estimation Of Excited State Absorption Cross-Section Of Porphyrin And Its Derivative By Pump-Probe Technique	A Srinivasa Rao,Alok Sharan,
33	8204	CP-5.3	Numerical And Experimental Analysis Of Gain Narrowing In An Nd:Glass Regenerative Amplifier.	J. K. Fuloria,K. C. Gupta,Paramita Deb,
34	8235	CP-5.4	Setup Of Grenouille For Measurement Of Ultra Short Laser Pulse And Comparison With The Frog Technique.	K. C. Gupta,Jayant K. Fuloria,Paramita Deb,



Poster Presentation : Day-3

Board No.	Paper ID	CP-ID	Title	Authors
35	8241	CP-5.5	A Regenerative Amplifier With Nd Doped Phosphate And Silicate Glass Rods Based Gain Media For Enhanced Spectral Bandwidth For Ultra-Short Laser Pulses	Rajesh Kumar Patidar,Deepak Daiya,Yogesh Uchchhare,Jyoti Sharma,Anandwardhan Shivram Joshi,Prasad Anant Naik,
36	8246	CP-5.6	A Simple And Alignment Free Single Shot Autocorrelator Using A Near 90 Degree Retro-Reflector For The Measurement Of Ultra-Short Laser Pulse Width	Deepak Daiya,Rajesh Kumar Patidar,Jyoti Sharma,M. P. Kamath,A. S. Joshi,P. A. Naik,
37	8250	CP-5.7	Transient Optical Response Of Graphene Oxide Dispersion From Femtosecond Pump Probe Spectroscopy	Sayantana Bhattacharya,Arup Ghosh,Amit Chandra Das,Rishi Maiti,Anupam Midya,Samit Kumar Ray,Shivakiran Bhaktha,Prasanta Kumar Datta,
38	8271	CP-5.8	Generation Of Simultaneous Wavelength And Sub-Wavelength Laser Induced Periodic Structures On Metal Surface	Lizina Khatua,Amit Chandra Das,Rudrashish Panda,Avanendra Singh,Pravakar Satapathy,Pratap Kumar Sahoo,Prasanta Kumar Datta,Susanta Kumar Das,
39	8279	CP-5.9	Terahertz Dielectric Response And Optical Conductivity Of Gase Crystals Using High Speed Asynchronous-Optical-Sampling Terahertz Time-Domain Spectroscopy	Amit Chandra Das,
40	8313	CP-5.10	Enhancement In The Optical Limiting Performance Of Basic Fuchsin Dye In The Presence Of Colloidal Silver Nanoparticles	P Radhakrishnan,Vpn Nampoore,A Mujeeb,
41	8364	CP-5.11	Ultrafast Time Resolved Spectroscopy Of 9-Anthracenecarboxaldehyde: Probing Hydrogen Bond Dynamics In The Excited State	Rajib Ghosh,Sagnik Datta,Dipak Kumar Palit,
42	8368	CP-5.12	Terahertz Radiation Generation By Propagation Of Two-Colour Sinusoidal Laser Pulses In Homogeneous Plasma	Nirmal Kumar Verma,Pallavi Jha,



Poster Presentation : Day-3

Board No.	Paper ID	CP-ID	Title	Authors
43	8434	CP-5.13	Ultrafast Dynamics Of Two-Dimensional Hole Gas Formed In An Algaas(P-Doped)-Gaas Heterostructure At Room Temperature	Salahuddin Khan,J. Jayabalan,Asha Singh,Rama Chari,
44	8437	CP-5.14	Forward And Reverse Laser Assisted Cleaning: A Comparative Study In Case Of Dye Contamination On Fused Silica Substrates	Anuja Mathai,J. Padma Nilaya,Bijoy Sugathan,Goutam Chakraborty,Kulwant Singh,V. P. Mahadevan Pillai,Dhruba Jyoti Biswas,
45	8448	CP-5.15	Terahertz Time Domain Spectroscopy Of Aqua-Soluble And Plastic Explosives	Ganesh Damarla,
46	8465	CP-5.16	Study On Optimization Of Average Power And Pulse Energy In All-Fiber Power Amplification Of Ultrashort Pulses From Yb- Doped Mode-Locked Fiber Laser	M. M. Reddy,C. P. Singh,P. K. Gupta,P. K. Mukhopadhyay,K. S. Bindra,
47	8488	CP-5.17	Spectral Characterization Of Intensity Of Femtosecond Filament In Atmosphere	Samuel Anurag Nalam,C Raghavendra,J Yelliah,Nagaraju Guthikonda,V Rakesh Kumar,P Prem Kiran,G Manoj Kumar,
48	ThP-02		Short Pulse Laser Induced Dynamics Of Transparent Liquids	Rakesh Kumar Vaddapally
49	8388	CP-6.29	Nonlinear Optical Properties For Tellurium Microrods	Manikandan M,Dhanuskodi S,
50	8389	CP-6.30	Enhanced Optical Limiting Of Ce: BaTiO <sub>3</sub> Nanoparticles Under Nanosecond Excitation	Senthilkumar P,Dhanuskodi S,
51	8404	CP-6.31	Laser Cladding Of In- Situ Synthesised W <sub>2</sub> c- Sic Reinforced With Al <sub>3</sub> ti/Mo <sub>5</sub> si <sub>3</sub> /Al <sub>8</sub> mo <sub>3</sub> Matrix On Al-Si Alloy	Kannan M,Viswanathan A,Sastikumar D,Duraiselvam M,
52	8445	CP-6.32	A Study Towards In-Situ Monitoring Of Tic Particle Decomposition In Laser Cladding Of Metal Matrix Composite Coating	Gopinath Muvvala,Debapriya Patra Karmakar,Ashish Kumar Nath,
53	8453	CP-6.33	Solvent Effect On Thermal Diffusivity Of Alizarin Red S Dye Solution Using Dual Beam Thermal Lens Technique	Vijesh K R,Ramya M,Sony U,Mathew S,V P N Nampoori,Sheenu Thomas,



Poster Presentation : Day-3

Board No.	Paper ID	CP-ID	Title	Authors
54	8459	CP-6.34	Formation Of Silver Triangular Nanoplates Using Liquid Phase Pulsed Laser Ablation And Light Irradiation	Shweta Verma,Tirumala Rao Bitra,Sonal Batham,Amit Srivastava,Rakesh Kaul,Bijendra Singh,
55	8473	CP-6.35	Laser Damage Threshold Of An Organic Nonlinear Optical Crystal Glucuronic Acid $\gamma$ -Lactone	Ravi Kiran Saripalli,H.L. Bhat,Suja Elizabeth,
56	8480	CP-6.36	Micromachining Of Metals And Polymers Using Xecl Excimer Laser	N S Benerji,A Singh,N K Varshnay,Bijendra Singh,
57	8487	CP-6.37	Micro-Drilling On Copper Sheets Using Nano-Second Pulsed Nd:Yag Laser	Tirumala Rao Bitra,R Sundar,K Ranganathan,Rakesh Kaul,Bijendra Singh,K S Bindra,
58	8491	CP-6.38	Laser Induced Fluorescence From Curcumin Doped Silica Xerogel	Roopa Venkataraj,Arindam Sarkar,M Kailasnath,
59	8493	CP-6.39	Liquid Phase Pulsed Laser Ablation Of Titanium Target In Different Solutions For Nanoparticles Synthesis	Sonali Verma,Shweta Verma,Tirumala Rao Bitra,Preeti Jain,Rakesh Kaul,Bijendra Singh,
60	8494	CP-6.40	Liquid Phase Pulsed Laser Ablation And Irradiation Routes For Synthesis Of Au-Ag Bimetallic Nanoparticles	Prachi Dubey,Tirumala Rao Bitra,Shweta Verma,Preeti Jain,B.S. Rawat,Rakesh Kaul,Bijendra Singh,
61	8495	CP-6.41	Laser And Visible Light Irradiation Based Synthesisof Silver Nanoparticles Of Varying Plasmon Resonance Responses	Palak Saraf,Shewta Verma,Tirumala Rao Bitra,B.S Rawat,Preeti Jain,Rakesh Kaul,Bijendra Singh,
62	ThP-03		Tuneable Coherent Perfect Absorption In Single And Multi-Layered Metal-Dielectric Composite Medium	Sanjeeb Dey
63	8190	CP-9.11	Nanosecond Libs Studies For Classification Of Triazole-Substituted Nitroarene Derivatives	Abdul Kalam S,Linga Murthy N,Nagarjuna K,Mathi P,Ajay K Singh,Venugopal Rao S,
64	8193	CP-9.12	Gold Nanomaterials Synthesised By Ultrafast Laser Ablation For Sers Applications	B. Chandu,M.S.S. Bharati,S. Venugopal Rao,
65	8216	CP-9.13	Time Resolved Fluorescence Study Of 5 - Amino Salicylic Acid In Microheterogeneous Systems	Sanjay Pant,Priyanka Arora,





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## Poster Presentation : Day-3

Board No.	Paper ID	CP-ID	Title	Authors
66	8226	CP-9.14	Oral Cancer Detection By Synchronous Fluorescence Spectroscopy Using Human Saliva As A Diagnostic Medium	Pavan Kumar, Ashutosh Singh, Surendra Kumar Kanaujia, Asima Pradhan,
67	8230	CP-9.15	Mapping Of The Biochemical In Tomato Fruit By Confocal Raman Spectroscopy	Sweta Sharma, Rahul Uttam, Nidhi Shukla, Abhi Sarika Bharti, K. N. Uttam,
68	8243	CP-9.16	Empirical Investigation And Discrimination Of Personal Care Products Using Libs And Multivariate Analysis	Pravin Kumar Tiwari, Shikha Awasthi, B K Ghosh, A K Rai,
69	8259	CP-9.17	Intense Green Up Conversion Emission In Er <sup>3+</sup> /Yb <sup>3+</sup> Co-Doped La <sub>2</sub> (Moo <sub>4</sub> ) <sub>3</sub> Phosphor	Shriya Sinha,
70	8261	CP-9.18	1.53 Micron Laser Excitation Based Micro-Libs Approach For Elemental Abundance Studies Of Terrestrial Soils: In-Situ Experimental Observations And Inferences	Zeenab A Pathan, V.L.N. Sridhar Raja, S.B. Patil, Krishnamprasad B, Kalpana Aravind, Laxmiprasad A.S.,
71	8274	CP-9.19	Synthesis And Upconversion Emission Studies Of Nayf <sub>4</sub> : Er <sup>3+</sup> /Yb <sup>3+</sup> Phosphor Nanoparticles	S. K. Maurya, S. P. Tiwari, A. Kumar, K. Kumar,
72	8276	CP-9.20	Detection Of Bioaerosols Using Depolarization Lidar Coupled With Laser Induced Fluorescence: A Simulation Study	S Veerabuthiran, A K Razdan, Mukesh Kumar Jindal,
73	8297	CP-9.21	Tea Co <sub>2</sub> Laser Based Differential Absorption Lidar For The Measurement Of Atmospheric Gases	S Veerabuthiran, A K Razdan, M K Jindal, Girraj Prasad, Vikas Sagar, Pramod Kumar, Yogesh Sharma,
74	8299	CP-9.22	Application Of Cavity Ring Down Spectroscopy To Exhaled Trace Gases That Are Important Biomarkers Of Various Diseases	Seetha Mahalakshmi Yeleswarapu Yeleswarapu, P. Madhusudana Rao, S. Surendra Babu ,
75	8304	CP-9.23	Concentration Dependent Near Infrared And Cooperative Luminescence Of Yb <sup>3+</sup> Ions In Lu <sub>3</sub> Sc <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> Nano-Garnets	R Praveena, P Venkata Laskshamma, V Sravani Sameera, V Venkatramu, I R Martin, V Lavin, C K Jayasankar,



Poster Presentation : Day-3

Board No.	Paper ID	CP-ID	Title	Authors
76	8339	CP-9.24	Femtosecond Libs Studies Of Nitropyrazoles In Air And Argon Atmospheres: Correlation Between Molecular Structure And Plasma	Nageswara Rao Epuru,Abdul Kalam S,Venugopal Rao Soma,
77	8376	CP-9.25	Total Angular Momenta Of Even-Parity Autoionization Levels Of Atomic Uranium Using Laser Photoionization Polarization Spectroscopy	P. K. Mandal,A. C. Sahoo,R. C. Das,M. L. Shah,Vas Dev,
78	8377	CP-9.26	Study Of Even-Parity Autoionization Levels Of U I	R. C. Das,P. K. Mandal,A. C. Sahoo,M. L. Shah,Vas Dev,
79	8378	CP-9.27	Isotope Shift Measurements Of High-Lying Even Parity Levels Of Sm I By Multi-Colour Photoionisation Spectrometry	A. U. Seema,P. K. Mandal,A. C. Sahoo,M. L. Shah,G. K. Bhowmick,Vas Dev,
80	8391	CP-9.28	Design Of A Two-Dimensional Magneto-Optical Trap For 87rb Atoms.	A. Srivastava,S. K. Tiwari,A. Chakraborty,S. P. Ram,S. R. Mishra,H. S. Rawat,
81	8398	CP-9.29	Doppler-Free Saturation Absorption Spectroscopy Of Eu I Transition 4f7 5d6s (A10d13/2o) → 4f7 5d6p (Z10f15/2) At 583.098 Nm	Pankaj Kumar,V K Saini,G S Purbia,Om Prakash,S K Dixit,
82	8407	CP-9.30	Simultaneous Detection Of Essential And Trace Metal In The Allium Cepa (Onion) Using Laser Induced Breakdown Spectroscopy	Abhi Sarika Bharti,Nidhi Shukla,Sweta Sharma,Shuchi Srivastava,K. N. Uttam,
83	8414	CP-9.31	Measurement Of Electron Temperature In The In-House Developed Hollow Cathode Lamp	Ajay Barik,V K Saini,K K Sarangpani,
84	8426	CP-9.32	Nanoparticle Enhanced Laser Induced Breakdown Spectroscopy (Nelibs): A Preliminary Study	Hemashri Muguli,Rajesh Nayak,K.S. Choudhari,Suresh D. Kulkarni,Unnikrishnan V.K.,Santhosh Chidangil,
85	8430	CP-9.33	Photonic Nanojet Assisted Enhancement Of Raman Signal: Effect Of Refractive Index Contrast	Harishankar Patel,Pankaj Kumar Kushwaha,Mahesh Kumar Swami,Pradeep Kumar Gupta,
86	8436	CP-9.34	Angular Momenta Of High Lying Levels Of U I Using Resonance Ionization Laser Polarization Spectroscopy	Asawari D Rath,S Kundu,A. K. Ray,





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KIIT University, Bhubaneswar



## Poster Presentation : Day-3

Board No.	Paper ID	CP-ID	Title	Authors
87	8439	CP-9.35	Conventional And Remote Raman System For Day Time Measurements Of Mineral Spectra	Muhammed Shameem K M,Tamboli M M,Unnikrishnan V K,Sajan D George,Kartha V B,Santhosh C,
88	8449	CP-9.36	Quantification Of Photophoretic Forces From Measurements Of The Brownian Dynamics Of Optically Trapped Absorbing Particles	Souvik Sil,Avinash Kumar,Tushar Kanti Saha,Ayan Banerjee,
89	8479	CP-9.37	Laser-Induced Fluorescence Spectroscopy Of Tan Molecule In Free-Jet	Sheo Mukund,Soumen Bhattacharyya,S.G. Nakhate,
90	8497	CP-9.38	Distribution Analysis Of 2-Anilinonaphthalene-6-Sulfonate In Polymer Microenvironment	Neeraj Tewari,Neetu Pande,Priyanka Arora,Sanjay Pant,
91	8369	CP-10.21	Detection Of Bio-Molecules In Varying Composition Under Closed Environment Scenario	Rishi Kumar Verma,Akansha Tyagi,Moditma ,Rajeev Kumar,Sushil Kumar,Nilratan Das,Anil Kumar Razdan,
92	8380	CP-10.22	Studies On Use Of Optical Imaging And Spectroscopy For The Assessment Of Cutaneous Alterations In Mice Exposed To Whole Body Gamma Irradiation	Khageswar Sahu,Priyanka Sharma,Mahesh Kumar Swami,Sudhir Kumar ,Jyoti Kumawat,Pankaj Kumar Kushwaha,Harish Shankar Patel,Sanjay Kher,Mrinalini Sharma,Alok Dube,Pradeep Kumar Gupta,
93	8392	CP-10.23	Evaluation Of Photodynamic Efficacy Of Rose-Bengal Conjugated To Cysteamine Capped Gold Nanoparticles	Abha Uppal,Reena Arora,Sunita Ahlawat,Mahesh Kumar Swami,H S Patel,P K Gupta,
94	8393	CP-10.24	Imaging Of Cutaneous Microvasculature Regeneration During Healing Of Wound In Diabetic Mice Using Swept Source Based Optical Coherence Tomography	Priyanka Sharma,Yogesh Verma,Khageswar Sahu,Sudhir Kumar ,Jyoti Kumawat,Pradeep Kumar Gupta,
95	8399	CP-10.25	Fluorescence Spectra Of Various Bio-Chemicals And Their Importance Towards Detection Of Biological Agents	Saurabh Inamdar,S. Veerabuthiran ,A.K. Razdan ,Usha Sarna ,



Poster Presentation : Day-3

Board No.	Paper ID	CP-ID	Title	Authors
96	8401	CP-10.26	Development Of A Liquid-Crystal Tunable Filter Based Hyper-Spectral Imaging System And A Software Interface For Automated Acquisition And Analysis Of Spectral Images	Hemant Krishna,Shovan K. Majumder,
97	8403	CP-10.27	Luminiscent Silica Nanoparticles For Biomedical Applications: Synthesis And Characterization	Beena Jain,Reeja K V,Puspan Mondal,Anil K Sinha,Santhosh Chidangil,
98	8419	CP-10.28	Crystallization Of Lysozyme Protein Using Nd:Yag Laser With Nucleants	Shilpa T,
99	8421	CP-10.29	Wavelength Encoded Polarization Scheme For Single Step Depth Sensitive Fluorescence Measurements	Sudhir Kumar ,Pankaj Kumar Kushwaha,Mahesh Kumar Swami,Priyanka Sharma,Harishankar Patel,Pradeep Kumar Gupta,
100	8429	CP-10.30	Design And Development Of A Combined Laser Induced Fluorescence (Lif) And Photoacoustic Spectroscopy (Pas) Instrumentation To Study Biological Samples	Raghushaker C.R,Subhash Chandra,Satyamoorthy Kapettu,Krishna Kishore Mahato,
101	8432	CP-10.31	Ex-Vivo Study Of Detection Of Cervical Cancer At An Early Stage Using Polarized Fluorescence With Portable Device In Clinical Environment	Bharat Lal Meena,Kiran Pandey,Asha Agarwal,Asima Pradhan,
102	8460	CP-10.32	Interrogation Of Sub-Surface Depths In A Layered Turbid Sample With Micro Spatially Offset Fluorescence Spectroscopy ( $\mu$ -SOFS)	Khan Mohammad Khan,Charu Chaurasia,Shovan K Majumder,
103	8462	CP-10.33	Differentiation Of Urinary Tract Infection (Uti) Causing Bacteria Using Micro-Raman Spectroscopy	Yogesha M,Kiran Chawla,Aseefhali Bankapur,Mahendra Acharya,Santhosh Chidangil,
104	8492	CP-10.34	Multifunctional Functional Graphene Nanocomposites For Improved Cancer Therapy	Rajiu V,Jeganathan ,
105	8159	CP-11.6	Coherent Kink In The Quantum Interference Signal For Tav Atomic Magnetometer	Rita Behera,Swarupananda Pradhan,



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KIIT University, Bhubaneswar



## Poster Presentation : Day-3

Board No.	Paper ID	CP-ID	Title	Authors
106	8189	CP-11.7	Comparative Assessment Of Resolution In Direct And Oblique Laser Triangulation Sensors For Position Measurement	Ravi Dhawan,Nitin Kawade,
107	8255	CP-11.8	A True Random Number Generator Using External Polarization Feedback In Vcsel	Ram Soorat,D Sajejev,Vs Ashoka,
108	8286	CP-11.9	Digital Holographic Interferometric Measurement Of Refractive Index Profiles In Translucent Mediums	V Trivedi,S Mahajan,M Joglekar,P Vora,N Patel,V Chhaniwal,A Anand,
109	8373	CP-11.10	Design Of Fixed Focal Length Lens Assembly For Imaging Over A Range Of 60m To 600m	Shweta Rattan,A.T. Reghunath,
110	8397	CP-11.11	Acquisition And Analysis Of Absorption Probe Images Of Laser Cooled Atoms	S. P. Ram,N. Rathore,S. R. Mishra,S. K. Tiwari,H. S. Rawat,
111	8417	CP-11.12	Miniaturized Laser-Induced Breakdown Spectroscopy (Libs) System For Field Applications	M. M. Tamboli, Unnikrishnan V. K.,V. B. Kartha,Vandana Pulhani,Anil Pulhani,Santhosh C.,
112	8456	CP-11.13	Interferometer Based Refractive Index Measurement To Monitor Dye Concentration In Liquid Dye Lasers	A Wahid,P S Kamble,D V Udupa,A K Ray,
113	8161	CP-12.1	Long Term Wavelength Stabilization Setup For Copper Vapour Laser Pumped Dye Laser	Sachin Kumar Agrawal,A. Mokhariwale,V.K. Shrivastava,P.K. Shukla,R. Khare,S.V. Nakhe,
114	8171	CP-12.2	A 250 V, 3.5 Kw, Zero Voltage Switching, Full-Bridge Dc-Dc Converter With Dc, Sine And Square Modulated Output Current For Arc Lamp Pumped Modulated-Continuous-Wave Nd:Yag Laser.	Dipen M. Vachhani,K. K. Pant,C. B. Panwar,Ashutosh Sharma,R. Arya,
115	8238	CP-12.3	Automated Pressure Control For Copper Vapor Laser	Devendra Bhale,Sandeep Agarwalla,Suman Mishra,V S Rawat,G Sridhar,K G Manohar,
116	8282	CP-12.4	Development Of Rogowski Coil Based Pulsed Current Sensor For Poor Laser Discharge Detection	Anil Sadananda Nayak,Deepak Naphade,Rajasree Vijayan,Devendra Bhale,Vinod Singh Rawat,K.G. Manohar,



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### Poster Presentation : Day-3

Board No.	Paper ID	CP-ID	Title	Authors
117	8294	CP-12.5	Laser Locking With Fpga Based Advanced Electronics Modules	Atish Roy,Neha Batra,Sanker Majhi,Lakhi Sharma,Subhasis Panja,Subhadeep De,
118	8315	CP-12.6	A Multi-Channel Delay Generator Architecture Design With Sub-Nanosecond Precision Over Optical Fibre Outputs For Synchronisation Of Dpssls And CvlS	Jinesh Thomas,
119	8337	CP-12.7	Studies On Timing Drift In Solid State Power Supplies On Copper Vapor Laser System Performance	R.K. Mishra,S.K. Agrawal,D.V.S. Raju,G.N. Tiwari,P.K. Agrawal,S.V. Nakhe,
120	8474	CP-12.8	Characterization Of Flash Lamp Pulsed Current Profile For High Power Laser Chain	Nand Valecha,V. P. Bhanage,P.P. Deshpande,C.P. Navathe,H.S. Vora,
121	8477	CP-12.9	A Fluorescence Detection And Data Acquisition System For Laser Experiments.	Vinay Kumar Dubey,Inderjeet Singh,Sayali Kedar,Piyush Saxena,H. S. Vora,
122	8481	CP-12.10	Automation Of Experiment For Photoluminescence Study Of Semiconductor Material	Ayukt Kumar Pathak,S. Porwal,Shradha Tiwari,Pp Deshpande,Viraj Bhanage,