

Poster Session –I 13:00-15:00

Monday, December 15, 2008

PM-01	Generation of a high bit-rate QPSK modulated millimeter-wave signal using optical signal processing techniques Yogesh Prasad K R¹, Lakshmeesha V K², Srinivas T¹ ¹ Indian Institute of Science, Bangalore, India ² ISRO, Bangalore, India
PM-02	Optical crosstalk in 8-PSK radio-over-fiber networks C. M. Negi, Rupali Phatak, Gireesh G Soni, Jitendra Kumar, and Pranay K Sen Shri G. S. Institute of Technology and Science, Indore, India
PM-03	A novel radio over fibre system using a dual-wavelength laser AHM Razibul Islam, G E Town Macquarie University, Sydney, Australia
PM-04	Circuit model for static and dynamic analysis of SOA Abhirup Das Barman¹, Ipsita Sengupta² and P K Basu¹ ¹ University of Calcutta, India ² ECE Department of MCKV Institute of Engineering, Howrah, India
PM-05	Design of narrow band DWDM channel de-multiplexer by fiber Bragg grating S Dasgupta¹, Abhirup Das Barman² ¹ MCKV Institute of Engineering, Howrah, India ² University of Calcutta, India
PM-06	Tuning the band gap of 1-D photonic crystal thro' variation in thickness of dielectric layers S Dasgupta¹, C Bose² ¹ MCKV Institute of Engineering, Howrah, India ² Jadavpur University, Kolkata, India
PM-07	Light localization in a 2D-disordered cylindrical medium for different input fields: a numerical study Somnath Ghosh¹, Govind P Agrawal², R K Varshney¹, and B P Pal¹ ¹ Indian Institute of Technology Delhi, India ² University of Rochester, USA
PM-08	Design of high negative dispersion all-solid Bragg like fiber for dispersion compensation through chirped claddings Somnath Ghosh, R K Varshney and B P Pal Indian Institute of Technology Delhi, India
PM-09	Modeling of side-polished microstructured optical fiber based devices B Nagaraju, R K Varshney and B P Pal Indian Institute of Technology Delhi, India
PM-10	An inherently gain flattened L-band EDFA design for realization through MCVF technique B Nagaraju¹, M C Paul², M Pai², A Pai², R K Varshney¹, B P Pal¹ and S K Bhadra² ¹ Indian Institute of Technology Delhi, India ² Central Glass and Ceramic Research Institute, Kolkata, India
PM-11	Index-guided microstructured fibers: a new model for the guided-mode Anurag Sharma and Hansa Chauhan Indian Institute of Technology Delhi, India
PM-12	High speed transmission (160 Gb/s) in a single mode optical fiber with ultra low polarization mode dispersion Pavan Kumar Gadde , Sanjit Singh Bhatia , Amjad Khan Sterlite Technologies Ltd, Aurangabad, India
PM-13	Characterization of a novel Raman/EDF hybrid amplifier with enhanced performance Umesh Tiwari¹, K Thyagarajan² and M R Shenoy² ¹ Central Scientific Instruments Organization, Chandigarh, India ² Indian Institute of Technology Delhi, India
PM-14	FEM analysis of a birefringent segmented cladding fibre A Kumar¹, V Rastogi¹, A Agrawal², and BMA Rahman² ¹ Indian Institute of Technology Roorkee, India ² City University London, UK
PM-15	Full vectorial analysis of a leaky optical fiber L Labonte¹, V Rastogi², A Kumar², B Dussardier¹ and G Monnom¹ ¹ Université de Nice-Sophia Antipolis, Parc Valrose, Nice Cedex, France ² Indian Institute of Technology Roorkee, India
PM-16	Novel quasi-crystal PCF Arti Agrawal, N Kejalakshmy, J Chen, H Lu, BMA Rahman and KTV Grattan City University London, UK
PM-17	Transient behavior of a nonlinear microring coupled to a straight waveguide S S Zakeri, F Farman, S Mohammad Ali Mirzaee, Z Ghaderi , G R Fayaz, M H Asgari Kaji, A R Bahrapour Sharif University of Technology, Tehran, Iran
PM-18	Effect of dead space in design optimization of fiber optics bundle probes for remote spectroscopy Nutan Gautam and G K Bhowmick Bhabha Atomic Research Centre, Mumbai, India
PM-19	Design of polymeric optical splitter incorporating a taper Rahul Singhal, M N Satyanarayan and Suchandan Pal¹ BITS, Pilani, India ¹ CEERI, Pilani, India
PM-20	Optomechanical instability in micro-resonators M Vahedi, A R Bahrapour, M Abdi, R Ghobadi Sharif University of Technology, Iran
PM-21	Simulation of multi-parameter fiber Bragg grating sensor K Srimannarayana¹, M Sai Shankar¹, RLN Sai Prasad¹, N Eknath Rao¹, D Sengupta¹, SRPRao² ¹ National Institute of Technology, Warangal, India ² KITS, Huzurabad, India
PM-22	Theoretical modeling of the tunable properties of ferroelectric liquid crystal filled photonic crystal fibers Sunish Mathews, Yuliya Semenova, Gerald Farrell Dublin Institute of Technology, Dublin, Ireland
PM-23	Design of optical filters for coarse wavelength division multiplexed optical networks by using random multilayer structures Anirudh Banerjee Amity University, Lucknow, India.
PM-24	Tuning of cavity modes in two dimensional square lattice photonic crystal A Soltani Vala, B Rezaei², M Kalafi University of Tabriz, Iran

PM-25	Study of light propagation in human brain tissues at different wavelength by Monte Carlo simulation Sulekha Kumari, Nitu Sahu and A K Nirala Indian School of Mines University, Dhanbad, India
PM-26	Ultrafast nonlinear optical gain dynamics in a semiconductor optical amplifier working at 0.5THz repetition rate Claudio Crognale, Antonella Di Giansante Technolabs S.p.A., Località Boschetto, L'Aquila
PM-27	Investigation of bidirectional femtosecond pulses in SOAs using a modified nonlinear Schrodinger equation and improved finite difference method Mohammad Razaghi¹, Vahid Ahmadi¹, Michael J. Connelly² and Kazhal Alsadat Madanifar³ ¹ Tarbiat Modares University, Tehran, Iran ² University of Limerick, Limerick, Ireland ³ K. N. T. University of Technology, Tehran, Iran
PM-28	Quantum confinement analysis of nitride based multiple quantum well Kanchan Talele, S. A. Gaikwad, D. S. Patil North Maharashtra University, India
PM-29	Comparison of transmission formats in super DWDM in presence of fiber nonlinearities Harinder Dhingra¹, BC Choudhary², SS Pattnaik², and RS Kaler³ ¹ Government College of Engineering and Technology, Jammu, India ² National Institute of Technical Teacher's Training and Research, Chandigarh, India ³ Thapar University, Patiala, India
PM-30	Coupled mode analysis of non-uniform coupling regions in embedded micro ring resonators Bh Vijaya Aditya, T Srinivas Indian Institute of Science, Bangalore, India
PM-31	Study of omnidirectional reflectors for photonic waveguide applications R S Dubey, J P Bange and D K Gautam North Maharashtra University, Umavningar, India
PM-32	Spectral characteristics of photonic crystal waveguide with defect P B Patil and RK Shevgaonkar Indian Institute of Technology, Bombay, India
PM-33	Effect of optical activity in two wave mixing in photorefractive crystals: transmission geometry Neha Katyal, Natasha¹, Avinashi Kapoor¹, Amitava Roy² ¹ Delhi University, India ² SERC Div., Mehrauli, India
PM-34	Modelling and design of silicon-on-insulator based 1.31/1.55µm photonic crystal demultiplexer Swati Rawal and RK Sinha University of Delhi, India
PM-35	Reflection bands of one-dimensional magnetic photonic crystals Khem B Thapa¹ and S P Ojha² ¹ Chhatrapati Sahu Ji Maharaj University, Kanpur, India ² Chaudhary Charan Singh University, Meerut, India
PM-36	Design and characterization of polarization beam splitter utilizing negative refraction in photonic crystal Monika Rajput and R K Sinha University of Delhi, India
PM-37	Existence of dark-antidark solitons in negative index material Anceema Joseph and K Porsezian Pondicherry University, India
PM-38	Simulation tool for dispersion compensation assembly design Fozia Aziz¹, Rama Chari² and S M Oak² ¹ SGSITS, Indore, India ² Raja Ramanna Centre for Advanced Technology, Indore, India
PM-39	An efficient MoI-BPM technique for the analysis of optical waveguide discontinuities Md Zahed M Khan and Husain A Jamid King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia
PM-40	Study of photonic crystal fiber by using finite element method S MISHRA & V K SINGH I.S.M.U., Dhanbad, India
PM-41	PCF based AWG Mux/Demux for DWDM network Jyothi Digge¹, S K Narayan Khedkar² ¹ Terna Engg College, Navi Mumbai, India ² Smt Indira Gandhi College Of Engineering, Navi Mumbai, India
PM-42	Ultra compact integrated optic race track resonator based biosensor Sathish Malathi and Talabattula Srinivas Indian Institute of Science, Bangalore, India
PM-43	A method for splitting of operators and semivectorial wave propagation in the 3D finite difference split-step scheme Debjeni Bhattacharya and Anurag Sharma Indian Institute of Technology Delhi, India
PM-44	Simulating an efficient beam-shaping technique for coupling diode laser stack to an optical fiber P Zhalefar M Laffouti , A Babazadeh , H Ghasemi , M S Zabih, J Sabbaghzadeh Paya Partov laser research center, Tehran, Iran
PM-45	Solvent effect on linear polarizability and first hyperpolarizability in para-nitro aniline Diksha Makwani and R Vijaya Indian Institute of Technology Bombay, India
PM-46	Terrestrial FSO link based on MIMO-LDPC system Harinder Sandhu, D Chadha, IIT Delhi, India
PM-47	Reconfiguration of virtual topology considering class of traffic M Sumathi¹, P T Vanathi² ¹ Sona College of Technology, Salem, India ² PSG College of Technology, Coimbatore, India
PM-48	A novel load sharing strategy based on topological information for OBS networks M Thachayani and R Nakkeeran, Pondicherry Engineering College, Puducherry, India

PM-49	Pre-emphasis – an automatic channel power control (ACPC) loop in ROADM network Anuj Malik¹, Sridhar Balakrishnan², Sanjay Choudhary² ¹ Ciena Corporation, Gurgaon, India ² Linthicum, Maryland, USA
PM-50	Design & planning tool for DWDM transport networks Nitin K Goel¹, Kaptan Singh¹, Sridhar Balakrishnan², Sandy Feldman², and Yunfeng Shen² ¹ Ciena Corporation, Gurgaon, India ² Linthicum, Maryland, USA
PM-51	Effect of laser linewidth on the performance of optical single sideband modulation based radio over fiber systems K. Esakki Muthu¹, S.S. Pathak² and N.B. Chakrabarti¹ ¹ G.S.Sanyal School of Telecommunications ^{1,2} Indian Institute of Technology, Kharagpur, India.
PM-52	Reflection based Deflection Routing: A Comparative Study of two Algorithms U. Guna Sekhar and Vinod Chandra Indian Institute of Technology Delhi, India
PM-53	BER Performance Analysis for Threshold Level Variation of a Receiver Limiting Amplifier in the Re-Modulation Scheme with Manchester Coded Downstream Sangjo Park¹, Bong Kyu Kim², Sun Hyok Chang³, Hwan Seok Chung³, Chang-soo Park⁴, ¹ Seowon University, Cheongju, Korea ² Biosensor Team, Daejeon, ETRI, Korea ³ Optical Communication Research Center, ETRI, Daejeon, Korea ⁴ Dept. of Information and Communication, GIST, Gwangju, Korea
PM-54	Power optimization in scm-wdm transmission system Mallika Wadhawan, V.K. Jain IIT Delhi, India
PM-55	Optical CDMA Network Performance in Presence of Impairments Shree Prakash Singh¹, S. Kar² and V. K. Jain³ ¹ Division of ECE, NSIT, Dwarka, India ² IIT, Delhi, India ³ Universiti Teknologi PETRONAS, Malaysia
PM-56	Comparison of multi-tone and PRBS RF modulation for SBS suppression in optical fibers Rohit Malik, Armand Vedadi and Michel E. Marhic Swansea University, Swansea, United Kingdom
PM-57	Analysis of Component Cross-talk and Obtaining Bit-Error-Rate in a WDM Receiver Santu Sarkar¹, N. R. Das², M. K. Das² ¹ University of Technology, Adisaptagram, Hooghly, West Bengal ² University of Calcutta, Kolkata, India
PM-58	Optimizing amplifier spacing to reduce timing jitter in RZ-rectangular 10 gb/s dm optical communication system Manjit Singh¹, Ajay K. Sharma², R. S. Kaler³ ¹ Punjab University, Patiala, India ² Department of CSE, NIT (Deemed University), Jalandhar, India ³ Thapar University, India
PM-59	Designing multi-wavelength optical access networks Venkatesh G. Mutalik ARRIS Access Products Division, Wallingford, USA
PM-60	Packet-level power equalization using SOA-MZI self-switch S. Dutta, S. Gupta, and R. Gangopadhyay Indian Institute of Technology, Kharagpur, India
PM-61	Design of Microstructured Fiber With High Birefringence S. Konar and Rakhi Bhattacharya Birla Institute of Technology, Mesra, India
PM-62	Pulse stretching with large mode area fiber bragg gratings N. Péraud, H. Coïc¹, and L. Quétel² ¹ Commissariat à l'Energie Atomique, Centre d'Etudes Scientifiques et Techniques d'Aquitaine, France ² IDIL, rue Claude Chappe
PM-63	Supercontinuum generation in highly nonlinear microstructured silica fiber Debashri Ghosh¹, Mrinmay Pal¹, Samudra Roy¹, Atasi Pal¹, Shyamal K Bhadra¹, John McCarthy², Henry Bookey² and Ajoy Kar² ¹ Central Glass & Ceramic Research Institute, Kolkata, India ² Heriot-Watt University, Edinburgh, UK
PM-64	Sculpting of optical fibre tip for microlens formation Prahlaḍ Baruah¹, Arpita Nath², Rodney Bernard³, Kamlesh Alti³ and Alika Khare³ ¹ Hindu College, Delhi ² Indian Institute of Technology Guwahati, India ³ Manipal University, India
PM-65	Parabolic pulse generation from a normal dispersion decreasing fiber (NDDF) with gain as well as from alternate concatenation of DCFs and fiber amplifiers Dipankar Ghosh¹, Mousumi Basu¹ and Somenath Sarkar² ¹ Bengal Engg. and Sc. University, Shibpur, India ² University of Calcutta, Kolkata, India
PM-66	Optical properties of solid core photonic band gap fiber based on optical properties of single rod of its cladding A. D. Pryamikov, A. S. Biriukov, D. A. Gaponov, O. N. Egorova, S. L. Semjonov and E.M. Dianov Fiber Optics Research Center of Russian Academy of Science, Moscow, Russia
PM-67	A New Design Concept of Optical Fibers to Reduce Non Linearity and Bend loss in Optical Networks Saurav Dutta AND Reena Harnal Sterlite Technologies Ltd, Aurangabad, India
PM-68	Soliton propagation in liquid filled photonic crystal fiber R. Vasantha Jayakantha Raja¹, K. Porsezian¹, and S. Sivabalan² ¹ Pondicherry University, Puducherry, India ² VIT University Vellore, India

PM-69	Supercontinuum generation in solid core photonic crystal fibers M Tiwari and V Janyani Malaviya National Institute of Technology, Jaipur, India
PM-70	Lorentzian approximation of the fundamental mode single mode step-index linear and non-linear fiber Pratap Kumar Bandyopadhyay¹, Aswini Kumar Mallick⁴, Sanchita Pramanik², S.N.Sarkar³ ¹ Narula Institute of Technology, Agarpara, India ^{2,3} University of Calcutta, Kolkata, India ⁴ Vidyasagar University, Midnapore, India
PM-71	Studying the photonic crystal fibers by fem method M. Jalalkamali, A.R. Erfan, A. Kamkar, R. Karimi Azari, A. Najafi and M.A. Bolorizadeh Int. Center for Sci. and High Tech. and the Environ. Sciences, Mahan, Iran
PM-72	Fabrication and characterisation of hollow polymer optical fibre with dye doped cladding M.Kailasnath¹, Ravi Kumar², Krishna Murari², V.P.Nampoori¹, P.Radhakrishnan¹ ¹ International School of Photonics ² Cochin University of Science and Technology, Kochi, India
PM-73	Polarization mode dispersion of elliptical core photonic crystal fiber using mathieu function Anshu D Varshney and Ravindra K. Sinha Delhi University, India
PM-74	Chromatic dispersion control in germanium-doped photonic crystal fiber using finite-element approach A.R. Erfan, R. Karimi Azari, A. Kamkar, A. Najafi, M. Jalalkamali, M.A. Bolorizadeh International Center for Science & High Technology & Environmental Sciences, Kerman, Iran
PM-75	An experimental study of the deposition rate in ACVD process Gopal C. Mishra, Dattatray Pasare Sterlite Technologies Ltd, Aurangabad, India
PM-76	Transmission properties of photonic crystals of Fibonacci-type composed of dispersive materials R.K. Mishra and P.C. Pandey BHU, Varanasi, India
PM-77	Optimization of auxiliary pumped L band EDFA parameters using multi-objective genetic algorithm Vishnu Priye¹, Subhash C. Arya¹, and Vikash Ranjan² ¹ Indian School of Mines University, Dhanbad, India ² Vellore Institute of Technology, Vellore, India
PM-78	Broadband output from an actively mode-locked fiber ring laser Deepa Venkitesh^{1,2}, Aditi Ghosh¹ and R.Vijaya¹ ¹ Indian Institute of Technology, Bombay, India ² VES College of Arts, Chembur, India
PM-79	A new moment method analysis of the gain spectrum in bi-directionally pumped Raman amplifiers by continuous-spectrum broadband pump A.Pourmoghadas¹, R.Parvizi², F. Aeenehvand³, A.R.Bahrampour^{1,2} ¹ Sharif University of Technology, Tehran, Iran ² International Center for Science and High Technology and Environmental Sciences, Kerman, Iran ³ Azad university Karaj branch, Kraraj, Iran
PM-80	Comparative analysis of forward and backward auxiliary ASE pumping for L-band EDFA Subhash C. Arya, Shubhendu Bhardwaj and Vishnu Priye Department of Electronics and Instrumentation, ISMU, Dhanbad, India
PM-81	Characterisation of photoluminescence and amplification in Er/Yb doped silica glass fibre S. Shen¹, M. Pal², M.C. Paul², A. Jha¹, S.K. Bhadra² ¹ University of Leeds, UK ² Central Glass and Ceramic Research Institute, Kolkata, India
PM-82	Efficient wavelength tuning of optical fiber laser using macro-fiber composite actuator A.K.Dikshit, R.Deb Roy, P.Biswas, M.Pal, S.Bandyopadhyay, S.K.Bhadra, and K.Dasgupta Fiber Optics Division, Central Glass and Ceramic Research Institute, Kolkata, India
PM-83	Analysis and realization of a 4 W linearly polarized single-mode Yb-doped CW fiber laser B.N. Upadhyaya¹, Usha Chakravarty¹, A. Kuruvilla¹, S. M. Oak¹, M.R. Shenoy² and K. Thyagarajan² ¹ Solid State Laser Division, Centre for Advanced Technology, Indore, India ² Indian Institute of Technology Delhi, India
PM-84	Modeling multi-pumped Raman fiber amplifiers Zohreh Laii-Dastjerdi¹, Feisal Kroushawi², Mohammad Hosein Rahmani³ ¹ Islamic Azad University, Iran, ² Shahid Beheshti University, Iran, ³ Vali Asr University of Rafsanjan, Rafsanjan, Iran
PM-85	All-optical Q-switched fiber laser using modulation of optical loss Pramod R. Watekar, Seongmin Ju, and Won –Taek Han Gwangju Institute of Science and Technology, South Korea
PM-86	Solving of fiber Raman amplifier propagation equations by finite element method M. Rahimi, R. F. Moghaddam, M. Khanzadeh Vali-e-Asr, University, Vallyat Blvd, Rafsanjan, Kerman, Iran
PM-87	Optical line singularity due to modal interference in tip-modified two-mode optical fiber Maruthi M. Brundavanam, V.V.G. Krishna Inavalli and Nirmal K. Viswanathan University of Hyderabad, India
PM-88	Transmission characteristics of long period gratings in tapered optical fibers Krishna Chandra Patra, Rashmi Singh, Enakshi Khular Sharma and Kiyotoshi Yasumoto* University of Delhi South Campus, India *Kyushu University, Fukuoka, Japan