

Titles and Authors for Photon08 Poster Session 1: Tuesday 26 August

QEP

Decelerating molecules in strong-field and weak-field seeking states	S Tokunaga
Laser cooling sans independent repump laser	M Vangeleyn
Integrated magneto-optic micro traps in atom chips	F Ramirez-Martinez
Novel optical cooling methods for atoms and molecules	A Xuereb
Collective Cavity Cooling Simulations Using a Vlasov Equation	M Hemmerling
Vortices in Anisotropic Traps	S McEndoo
Theory of Bose-Einstein condensate interferometry	B Dalton
Coherent manipulation of YbF hyperfine sublevels	D Kara
Ground state properties of harmonically trapped ultracold atoms with non-Abelian vector potentials	M Merkl
Ultra-cold and ultra-relativistic: exotic quantum states with cold atoms	F Zimmer
Collective Scattering of Modulated Light By Cold Atoms	W J Firth
Derivation of sensitivity of a Geiger mode APDs detector from a given efficiency for QKD experiments	K Hammura
Generalized quantum measurements with photons	J Matthews
A superconducting nanowire single-photon detector system for quantum information processing applications	C Natarajan
An all-fiber based high-efficiency EPR source in the telecom wavelength range feeding a multi-user QKD network	B Blauensteiner
Relaxation to "Negative Temperatures" of BEC in Optical Lattices	G-L Oppo
Binary search trees for generalized measurement	D K Oi
Weak Values and Continuous-Variable Entanglement Concentration	D Menzies
An all optical fibre quantum controlled-NOT gate	A Clark
Quantum public key distribution with imperfect device components	C Hamilton
Effect of stimulated Brillouin scattering build-up on slow light in optical fibres	N Kotova
Atomic fluorescence emitted into an optical nanofibre	S Nic Chormaic
Berry phase and de-coherence in quantum interference with macromolecules	S Horsley
Integrated many-waveguide atom chip	M Succo
A compact free space quantum cryptography system for daylight operation	D Taylor
Photon Statistics of the Two-Mode Three-Level atom Microlaser	T Mokhiemer
Lamb shift due to Surface Plasmon Polaritons modes	M Al-Amri
"The effective cross-Kerr Hamiltonian in atomic rubidium"	G Sinclair
Single-Photon Sources for Optical Fibre-based Quantum Key Distribution Systems	R Collins

Efficient light collection from N-V centres in diamond using solid immersion lenses	A Stanley-Clarke
Whispering gallery modes and nanojet emission in symmetric photonic molecules arranged on a micro-structured template	M Gerlach
Quantum non demolition measurements of spin states in N-V centers.	A Young
Entanglement in the adiabatic limit of cavity QED with pairs of atoms,	C Lazarou
Tunable resonances in the thermal radiation of a carbon nanotube interacting with a nanoparticle	A Nemilentsau
Light confinement and emission properties in Silicon Slot Waveguides	C Creatore
High Purcell effect cavity design for visible wavelengths	A Adawi
Nanohole array as a lens	F Huang
High-density nanoparticle phase change memory	A Denisyuk
Near Infrared Coupling in Dual Core Lead Silicate Photonic Crystal Fibres	H T Bookey
The application of a photonic crystal exhibiting negative refractive index as a curved lens	C Bennett
Mimicking the Faraday effect in dielectric materials without a magnetic field by using 2D chirality	A Potts
We report measurements and numerical modelling of quasi-soliton propagation in silicon nanowires over 3 to 4 dispersion lengths using 100fs pump pulses. We also present accurate measurements of the group index and its dispersion.	D V Skryabin
Photonic crystal defect cavities coupled to N-V centres in diamond	L Marseglia
Tunable Bloch oscillation in photonic crystals with nonlinear composite materials	K Yu
Spontaneous self-synchronization mechanism for attosecond pulses	G McDonald
Ultra Broadband Gain from a Bismuth-doped Glass Waveguide Fabricated using Ultrafast Laser Waveguide Inscription	N Psaila

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Multi-point viscosity measurements using optical tweezers	S Keen
Evanescence optical coupling with optically tweezed aerosols	M Guillon
Modelling of Optical Forces in Aerosol Trapping	D Burnham
Single cell refractometry in a fibre trap	L Paterson
Engineering applications for optical trapping	S Edwardson
Optical manipulation inside single living cells	L Paterson
Measuring growth forces of fungal spores using optical tweezers	J Arlt
Optical deflection and sorting of microparticles in a near-field geometry	R Marchington

A dual beam optical fibre trap for airborne particles	D Rudd
Computation of optically induced forces and torques arising in connection with holographic optical assembly	D Benito
Two-dimensional finite aperture diffractive optical elements design using iterative angular spectrum approach	M Mirsalehi
Results of hemoglobin concentration measurement in whole blood with an optical non-invasive method	J Kraitl
Analysis of biomedical photo-plethysmographic signals for detection of heart-circulation patterns by using continuous wavelet transformation	J Kraitl
Development and testing of a novel heterodyne velocimeter (HetV) for shock physics	E M Price
Exploration of the gas phase chemistry in microwave-activated diamond deposition plasmas using an intra-pulse quantum cascade laser spectrometer	K Hay
The enhancement of optical coupling efficiency using single and dual ball lens for packaging of laser diode module	J Zainal
Fibre-optic Systems Generalized description of polarization dependence of two-photon absorption detectors	J O'Dowd
Diode-laser atomic-fluorescence-lineshape temperature measurements in low-pressure flames	I S Burns
Nitrogen dioxide detection using an integrating sphere as a multipass gas absorption cell.	E Lewis
Miniaturised hydrogen sensor based on a thin dome shaped Palladium foil	R R Maier
Influence of acceptance angle on high-finesse microcavity two photon absorption photodetectors	J O'Dowd
Photoacoustic probe for underwater NDT measurements	J Zainal
Optical absorption, photoluminescence and resonant Raman studies of the growth of CdSe nanocrystals in glass	A Asikoglu
Femtosecond NIR and NUV refractive index structuring in optical materials	D Liu
Generalized refraction with confocal lenslet arrays	J Courtial
Dove-prism sheets and local ray rotation	A Hamilton
Dynamics of pulsed optical vortices with high topological charge in Kerr dielectrics Khasanov	O Khasanov
An angular diffraction analogue to create orbital angular momentum superpositions Jack	B Jack
Local ray rotation and optical vortices	J Courtial
An acoustic spanner and its associated rotational Doppler shift	C C Wilson
Fractality and topology of light's darkness	K O'Holleran
Holographic vortex steering and the creation of knotted vortex lines	R King

Titles and Authors for Photon08 Poster Session 2: Wednesday 27 August

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Optical Transitions in Semiconductor Cylindrical Nanolayer under Strong Electrostatic Field	V Harutyunyan
Magnetolectric interactions and a problem of local bianisotropic metamaterials	E Kamenetskii
Light emission modulation of a multi quantum well structure mediated by surface acoustic waves	J Ebbecke
Faraday effect in a short pulse propagating in a resonant medium under an ultra-strong magnetic field	J G Huang
On conventional approaches to homogenization applied to unconventional composite materials	A Duncan
Plasmonic solitons in metal-dielectric periodic nano-structures	A Gorbach
Electro-optic particulate composite materials	T MacKay
Designer femtosecond pulse shaping using grating-engineered quasi-phase-matching in lithium niobate	L Kornaszewski
Development of edge pumped Yb:YAG planar waveguide lasers	I Thomson
Emission properties of InSb/AlxIn1-xSb bulk and quantum-well light-emitting diodes	B Mirza
Limitations on power scaling of semiconductor disk lasers using intracavity diamond heatspreaders	R Birch
Analysis of semiconductor disk laser efficiency and beam quality	P Roth
Semiconductor disk laser pumped Cr:chalcogenide lasers	N Hempler
Growth variation effects in Si/SiGe quantum cascade lasers	A Valavanis
Helmholtz solitons: fresh perspectives and new angles in photonics	J Christian
Turing instability: a universal route to spontaneous fractal patterns	G McDonald
Power scaling and tunability of an 1150-1250nm GaInNAs/GaAs VECSEL	S Vetter
State dependent pseudoresonances and excess noise in nonlinear optics	G D'Alessandro
Red semiconductor disk laser pumped by gallium nitride laser diodes	A Smith
Coupling of polarization and spatial degrees of freedom of highly divergent emission in broad-area square vertical-cavity surface-emitting lasers ,	T Ackemann
Characteristics of a cavity soliton laser based on a volume Bragg grating	N Radwell
Long-term simulations of solid state lasers and VCSELs	G-L Oppo
Multi-photon microscopy based on resonant four-wave mixing of colloidal quantum dots	F Masia
InP/AlGaInP Quantum Dot Laser structures	P Smowton
Experimental Analysis of GaAs Based , 1.3-1.6um Laser Materials	J Ferguson
A statistical model for cooling atoms and molecules in optical cavities	W Lu
Nonlinear interfaces: intrinsically nonparaxial regimes and effects	J Sanchez-Curto
Dynamics and drifting excitations in a cavity soliton laser	T Ackemann

Study of Surface Recombination in In(Ga)As Quantum Dot Lasers	D Naidu
Comparison of catastrophic optical mirror damage in quantum dots and wells in GaInP/AlGaInP	S Elliott
Mid-infrared laser diodes from GaInAsSbP alloys	M Yin
Stimulated optical depopulation and hot phonon effects in mid-infrared GaAs/AlGaAs quantum cascade lasers	R Reeder
Local field effects in rabi oscillations in semiconductor quantum dots.	O Khasanov
Low power photonic crystal all-optical switch	M Mirsalehi
Alike, but not the same: Symmetries and many-body effects in highly charged quantum dots	M Ediger
Coherent Metamaterials and the Lasing Spaser	N Papasimakis
Fiber lasers mode-locked by carbon nanotubes	A Rozhin
Solitons in Metamaterials	R Mitchell-Thomas
Transfer of angular momentum from vortex beams to optically induced copropagating and counterpropagating trigonal photonic lattices	S Prvanovic
Fabrication and Characterisation of Waveguides in Gallium-Lanthanum-Sulphide Chalcogenide Glass using Ultrafast Laser Waveguide Inscription	N Psaila
Structured planar surfaces exhibiting strong bianisotropy at IR	C Mateo-Segura
Near- and Mid-Infrared Emission Properties of Multiple Rare Earth Doped Multicore Tellurite Fibre	H T Bookey
Advances in alexandrite laser technology and its recent applications	T Thevar
One and two-photon pumped fluorene-based organic semiconductor lasers	G Tsiminis
Application of terahertz radiation for moisture diagnostics in paper drying	D Banerjee
Taper-Coupled Optical Microcavities	S Nic Chormaic
Measurement Master Equation	C Hamilton

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A novel supercontinuum-based fluorescence lifetime imaging microscope	S Schlachter
Array Rotation Aperture Synthesis for Short-Range Imaging at Millimeter-wavelengths	B Lucotte
Wavefront sensorless adaptive optics	M J Booth
In-vivo monitoring of erythema in gingival inflammation using spectral imaging	C Zakian
An all-fiber interrogation system for a Bragg grating array	G Rajan
Online optical fibre monitoring system for microwave plasma UV lamp with food industry applications	S O'Keeffe

Simulation and measurement of carbon dioxide exhaust emissions using an optical fibre based mid-infrared sensor system	R Muda
Nano-Indentation and Scratch Tests on Optical Fiber Material to Determine Ductile Mode Critical Depth of Cut	Y Gharbia
Multisymplectic integrators in nonlinear optics of ultra-short pulses	M Pietrzyk
Numerical simulation of whispering gallery modes of micro sphere layers	I Gozhyk
Frequency shifts and linewidth broadening of WGMs in response to perturbations of the surrounding medium	L Chantada
Pulse duration management of visible wavelength lasers for multi-photon photolysis applications	K Gardner
Frequency doubled vecsel for laser scanning confocal microscopy	A Asikoglu
OPO based laser system for CARS microscopy	G McConnell
Photovoltaic cells based on supramolecular poly-isocyanopeptide arrays	C E Finlayson
Multi-photon microscopy based on resonant four-wave mixing of colloidal quantum dots	F Masia
Optical beam induced current generation and imaging with a white-light supercontinuum laser source	E Esposito
Electrical properties of silicon diodes determined under illumination by various wavelengths	S Moloi
Generalized description of polarization dependence of two-photon absorption detectors	J O'Dowd
Looking at a Photon as an Elementary Particle Carrying a Magnetic Flux Tube of Fluxon	M Saglam
Explanation of the (6s-7s) Parity Violating Transition in Atomic Cesium Through the Superselection rules in Dirac Hydrogen Atom	M Saglam
Scattering from nanostructures	K Holms
Spectral line character of carbon dioxide in nanoporous glass	S Dubyanskiy
Experimental analysis of flow measurements using colour seeding	R Wang
Hard x-ray kinoform lenses for micro- and nano-focusing at Diamond Light Source	L Alianelli
A new phase-to-height model for measuring object shape using structured light: The most generic form	B Rajoub
3D shape measurement with fringe projection and photometric stereo	R Wang
Effects of sub-pixel errors in the detection of calibration control points on the height measurement of a calibrated structured light system	B Rajoub