

Publications 2008 de l'Institut d'Optique *Graduate School*

En gras : les auteurs du Laboratoire Charles Fabry de l'Institut d'Optique.

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Articles dans des revues à comité de lecture

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Communications à des conférences (le conférencier est souligné)

Conférence avec actes

- M. Castaing, F. Balembos, P. Georges, T. Georges,** and K. Schaffers, "*Intracavity pumped Yb:SFAP crystal emitting at 985 nm And Second harmonic generation*", communication orale, Photonics West - LASE 2008, San José, USA (2008).
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- J. Habib**, O. Guilbaud, A. Klisnick, **D. Joyeux**, D. Ros, B. Zielbauer, S. Kasamias, F. De Dortan, and M. Pittman, "*Cohérence temporelle et largeur spectrale d'un laser X transitoire en pompage GRIP*", Poster, UVX 2008, Dourdan, 7-10 octobre (2008).
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- C. Hecquet**, **F. Delmotte**, **M. Rouillay**, **A. Rinchet**, **F. Varniere**, **E. Melchakov**, and **M. F. Ravet-Krill**, "*Stabilité thermique des performances spectrales de miroirs EUV*", Poster, UVX 2008, Dourdan, 7-10 octobre (2008).
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- A. Perrin, H. Chang, V. Krachmalnicoff, M. Schellekens, J.C. Jaskula, V. Leung, D. Boiron, A. Aspect, and C. Westbrook**, " *Noise and correlation measurements using single atom detection*", Poster, 21st International Conference on Atomic Physics, Storrs (USA), juillet (2008).
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- M.F. Ravet-Krill, F. Auchère, C. Hecquet, A. Jérôme, F. Delmotte, J.D. Moses, and J. Newmark**, " *Recent results in solar imaging using ion beam sputtered multilayers*", poster, 9th International Conference on the Physics of X-Ray Multilayer Structures, Big Sky Resort, Montana, USA, 3-7 février (2008).
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- J. Boudeile, D. Papadopoulos, M. Hanna, F. Druon, P. Georges, P. Petit, P. Goldner, B. Viana, and D. Ritz**, " *Ultrashort pulses high power diode pumped laser based on a new ytterbium doped CaGdAlO4 crystal*", Conférence orale invitée, Laser Physics Workshop 2008, Trondheim, Norway, June 29 - July 4 (2008).
- M. Canva, J. Moreau, G. Roger, A. Bellemain, J. Hottin, A. Duval, J. Spadavecchia, and M. Nakkach**, " *Multimodal Surface Plasmon Resonance Imaging as a characterization instrument for biomolecular surface interactions*", Conférence invitée, International Workshop on Photonics and Applications, Nha Tran, Vietnam, 10-14 septembre (2008).
- M. Castaing, E. hérault, F. Balembos, and P. Georges**, " *Low wavelength emissions with Nd doped lasers*", Conférence orale invitée, Conference on Laser and Electro-optics, CLEO 2008, San José, 4-9 Mai (2008).

- M. cuniot-Ponsard**, "*Electro-optic properties of $Sr_xBa_{1-x}Nb_2O_6$ (SBN:x) thinfilms*", Conférence invitée, International Symposium on Integrated Ferroelectrics, Singapour, 9-12 juin (2008).
- M. cuniot-Ponsard**, and **J. M. Desvignes**, "*Electro-optic properties of $Sr_xBa_{1-x}Nb_2O_6$ (SBN:x) thinfilms*", Conférence invitée, 9th European Conference on applications of Polar Dielectrics, Rome, 25-28 août (2008).
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- A. Gaëtan**, Y Miroshnychenko, T. Wilk, A. Chotia, M. Viteau, D. Comparat, P. Pillet, **A. Browaeys**, and **P. Grangier**, "*Observation of the coupling between two single Rydberg atoms*", Conférence invitée, 21ème ICAP 2008, Storrs Connecticut (USA), 27 juillet, 1er août (2008).
- P. Grangier**, "*Communication and cryptography based on quantum physics.*", Conférence invitée, Solvay Conference, Bruxelles, 30 avril - 2 mai (2008).
- J.J. Greffet**, "*Heat transfer at nanoscale*", conférence invitée, Metamaterials and their applications MetalN-2008, Hyderabad, India, 18-20 December (2008).
- V. Josse**, **J. Billy**, **Z. Zuo**, **A. bernard**, **B. Hambrecht**, **P. Lugan**, **D. Clément**, **L. Sanchez-Palencia**, **P. Bouyer**, and **A. Aspect**, "*Anderson Localization of an expanding BEC in Laser speckle*", conférence invitée, Theory of Quantum Gases and Quantum Coherence, Fourth International workshop, Grenoble, 4 juin (2008).
- P. Lalanne**, **J.P. Hugonin**, and **M. Besbes**, "*Fourier modal method: from grating theory to more intricate structures*", conférence invitée, SAOT workshop, Erlangen, Allemagne, 5-6 mai (2008).
- P. Lalanne**, **J.P. Hugonin**, and **H. Liu**, "*The elementary interactions in the extraordinary optical transmission phenomenon*", conférence invitée, 7th workshop on Information Optics, Annecy, 1-5 juin (2008).
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- P. Lalanne**, and **H. Liu**, "*Microscopic model of the extraordinary light transmission*", conférence invitée, 1st Mediterranean Conference on Nano-Photonics, Istanbul, Turkey, 6-7 October (2008).
- P. Lalanne**, **H. Liu**, and **J.P. Hugonin**, "*Surface waves generated by isolated nano-objects on metallic surfaces and their association by multiple-scattering*", conférence plénière invitée, COOC, Busan, Corée, 13-15 mai (2008).
- P. Lalanne**, **H. Liu**, and **J.P. Hugonin**, "*Surface waves generated by nano-objects*", conférence invitée, NATO Research Workshop on Metamaterials, Marrakech, Maroc, 7-10 mai (2008).
- P. Lalanne**, **P. Velha**, and **J.C. Rodier**, "*Highly efficient Bragg mirrors in SOI ridge waveguides by engineering evanescent Bloch modes*", conférence invitée, Workshop Metamaterials and plasmonics, Busan, Corée, 12 mai (2008).
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- R. Mercier**, **M. Lamare**, **M. Mullot**, **V. Bagnoud**, X. Ribeyre, J. Luce, and J. Néauport, "*Ion beam manufacturing of a graded-phase mirror for the generation of square "top hat" laser beams*", Conférence invitée, Optical Fabrication, Testing, and Metrology III, Proceedings of the SPIE, Vol 7102, 71020E-71020E-5 p. (2008).

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- G. Pauliat**, "Stockage holographique de l'information.", Conférence invitée, Holographie , état de l'art et perspectives, Liège, 19 juin (2008).
- L. Sanchez-Palencia**, "Anderson localization in interacting Bose gases", conférence invitée, 38th Winter conference on the Physics of Quantum Electronics, Snowbird, Colorado, jan. (2008).
- L. Sanchez-Palencia**, "Towards many-body Anderson localization: The case of Bogolyubov quasi-particles", Conférence invitée, Symposium on disorder in cold atomic quantum gases, Ecole Polytechnique, Palaiseau, France, june (2008).
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- C. Westbrook**, "Noise and correlation measurements using atom counting", conférence invitée, International Workshop on Quantum Noise in Correlated Systems, Rehovot, Israel, 6-11 janvier (2008).
- C. Westbrook**, "Measuring two particle correlation functions", Conférence invitée, Ultracold Atoms and Quark-Gluon Plasmas, Copenhagen, Denmark, 16 june 2008 - 7 july (2008).
- C. Westbrook**, "Detection and manipulation of atoms on chips - and elsewhere", Conférence invitée, Photon08 conference, Edinburgh, Scotland, 26-28 august (2008).
- C. Westbrook**, "The atomic Hanbury Brown Twiss effect", conférence invitée, New Frontiers in Micro-and Nano Photonics, Florence, Italie, 23-26 avril (2008).

Workshop

- C. Arnaud, G. Pauliat, J.F. Letard, E. Freysz, and G. Roosen**, "Caractérisation de particules à transition de spin.", Workshop, Journées Groupe Français de Photochimie, Brest, 21-23 mai (2008).
- F. Bardin, P. Lecaruyer, A. Duval, J. Hottin, J. Spadavecchia, A. Aide, A. Bellemain, G. Roger, and M. Canva**, "Potentiel multidimensionnel de l'imagerie plasmonique : application à la caractérisation d'interactions biomoléculaires de surface", workshop, Journées transverses du GDR "Ondes", Supelec, Gif Sur Yvette, 21-22 juin (2008).
- J. Billy, V. Josse, A. Bernard, P. Bouyer, and A. Aspect**, "Anderson localization of matter waves in laser speckle", Workshop, European Graduate College (EGC), Gif sur Yvette, 1er juillet (2008).
- D. Boiron, A. Perrin, V. Krachmalnicoff, M. Schellekens, H. Chang, V. Leung, A. Aspect, C. Westbrook, S. Moal, M. Portier, J. Dugué, M. Leduc, C. Cohen-Tannoudji, T. Jelte, J.M. McNamara, W. Hogervorst, and W. Vassen**, "Quantum degenerate gases of metastable helium atoms", workshop, EuroQuam Inaugural Conference, Barcelone, Espagne, avril (2008).
- T. Bourdel, J.P. Brantut, M. Robert de St Vincent, and P. Bouyer**, "Matter-wave Interferometer using degenerate gases", Workshop, IQS First scientific meeting, Florence, Italie, Dec (2008).
- A. Browaeys**, "Faire de la physique quantique avec un seul atome", Workshop, Congrès annuel de la division physique atomique optique et moléculaire de le SFP, Lille, Juillet (2008).
- M. Canva, J. Moreau, B. Bartenlian, J.P. Cloarec, D. Pompon, and A. Laisne**, "NanoBioforme - Surfaces hybrides nanostructurées et anisotropes pour la conception de capteurs biologiques plasmoniques sensibles à la

- conformation et à l'état d'organisation des biomolécules", workshop, PNANO annual workshop, Grenoble (2008).
- M. Canva**, "Dynamical biochip system and self calibration methodology patent", communication orale, OPTO 2008, FIST, Paris Villepinte, 30 septembre - 2 octobre (2008).
- M. Castaing, F. Balembois, and P. Georges**, "Lasers solides à base de transitions 3 niveaux du néodyme et de l'ytterbium, émission dans le bleu", workshop, Journées Thématiques CMDO+ "Lasers Solides Visibles UV", Palaiseau 24-25 Novembre (2008).
- P. Delaye, S. Lebrun, R. Frey, and G. Roosen**, "High performance Raman generation in liquid filled photonic band gap fibers.", Workshop, Proceedings of the COST MP 0702 Kick-off Workshop, Warsaw, 28-29 avril 2008, 76-77 (2008).
- V. Devauges, P. Blandin, S. Lévêque-Fort, S. Lécart, F. Druon, P. Georges, J. C. Cossec, and M. C. Potier**, "FRET detection using Total Internal Reflection Fluorescence Lifetime Imaging Microscopy and supercontinuum excitation", workshop, poster, Symposium «Optical Microscopy in Good Shape» Network of European Neuroscience Institutes, Paris 5-6 juin (2008).
- J. Didierjean, **J. Boudeile, F. Balembois, F. Druon, and P. Georges**, "Mesures simultanées de lentilles thermiques et de cartographies en température dans les matériaux lasers solides", workshop, Journées Thématiques CMDO+ « Techniques de mesures d'indice de réfraction linéaire et non-linéaire : spécificités et limitations », Caen 11-12 Septembre (2008).
- G. Druart, J. Taboury, and N. Guerineau**, "Intégration de fonctions Optroniques au voisinage d'un plan focal infrarouge.", Workshop, Journées des doctorants PHY Onéra, 14 janvier (2008).
- N. Dubreuil, A. Baron, A. Rysnyanskiy, P. Delaye, Q. Vy Tran, S. Combrie, A. De Rossi, R. Frey, and G. Roosen**, "Third order nonlinearities enhancement in a slow-mode GaAs photonic crystal waveguide.", Workshop, 3rd Management Committee & Working Group Meeting of COST Action MPO702 : Towards Functional Sub-Wavelength Photonic Structures (Book of Abstracts), Bratislava, 28 octobre, 29p. (2008).
- D. Dulín, K. Perronet, N. Westbrook, P. Bouyer, N. Soler, D. Fourmy, and S. Yoshizawa**, "Detection and manipulation of single biomolecules for the study of ribosome dynamics", Workshop, European Network of Excellence "Photonics for Life" annual meeting, Bruxelles, 18 novembre (2008).
- D. Dulín, K. Perronet, N. Westbrook, P. Bouyer, N. Soler, S. Yoshizawa, and D. Fourmy**, "Detection and manipulation of single biomolecules for studying ribosome dynamics", workshop, Journée C'Nano Ile de France, Châtenay-Malabry, 6 février (2008).
- I. Friedler, P. Lalanne, J.P. Hugonin, J. M. Gérard, and I. Robert-Philip**, "Design of a novel high-efficiency single-mode single photon source", workshop, GDR "Ondes", ESPCI Paris, 4 juin (2008).
- A. Gaëtan, Y Miroshnychenko, T. Wilk, A. Chotia, M. Viteau, D. Comparat, G. Pillet, A. Browaeys, and P. Grangier**, "Vers l'observation du blocage de Rydberg avec deux atomes", Workshop, Congrès annuel de la division physique atomique optique et moléculaire de le SFP, Lille, Juillet (2008).
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- A. Gaëtan, Y Miroshnychenko, T. Wilk, A. Chotia, M. Viteau, D. Comparat, G. Pillet, A. Browaeys, and P. Grangier**, "Studying the Rydberg blockade with individually trapped single atoms in optical tweezers", Workshop + Poster, 21ème ICAP 2008, Storrs Connecticut (USA), 27 juillet -1er août (2008).
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J. Hottin, J. Moreau, A. Bellemain, J. Spadavecchia, L. Lecerf, M. Goossens, and M. Canva, "*Label-free self-calibrated DNA biochips - Application to accurate genetic diagnosis*", workshop, 2nd label-free protein array workshop, Cachan, 3-4 juillet (2008).

J. Hottin, J. Spadavecchia, A. Bellemain, J. Moreau, and M. Canva, "*Surface plasmon resonance imaging biochip system - application to genotyping*", Workshop, FP7 Photonics for Life 2008 scientific meeting, Bruxelles 18-19 novembre (2008).

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F. Kroeger, N. Dubreuil, P. Delaye, R. Frey, G. Roosen, and B. Jusserand, "*Diffusion Raman Stimulée en microcavités*", Workshop, Journée de conférences C'nano Idf, Chatenay-Malabry, février (2008).

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S. Mazoyer, J.P. Hugonin, and P. Lalanne, "*Modélisation des pertes introduites par le désordre dans un guide à cristal photonique*", workshop, GDR Ondes, Lyon, France, 15 December (2008).

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G. Messin, "*Single photon sources for quantum information*", Workshop, Tutorial invité à l' International Symposium for Young Researchers: Quantum Manipulation of Photons and Atoms Pékin et shanghai, Chine, 22 octobre (2008).

M. Nakkach, Z. Ben Lakhdar, and M. Canva, "*Imagerie angulo-spectrale plasmonique appliqué à la lecture dynamique de biopuces*", workshop, Ecole thématique interdisciplinaire "Nanoparticules d'or et résonance plasmon", Porquerolles, 9-13 juin (2008).

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