

Ce document complète le rapport scientifique du laboratoire également disponible en téléchargement. Il en constituait initialement l'annexe 6 fournie à l'agence d'évaluation AERES.

This document completes the scientific report of the Laboratory, available separately, by listing the scientific production. It was initially Annex 6 delivered to the evaluation agency AERES.

LABORATOIRE CHARLES FABRY
RAPPORT PLURIANNUEL 2008-2013
SCIENTIFIC PRODUCTION

This appendix lists the whole scientific production, group by group, from 1st January 2008 until 30th June 2013. In compliance with the AERES instructions, the production is organised for each group according to the same scheme, which reflects the organisation of the main scientific report:

- Subsection 1 contains references in the open literature in general, various kinds of public presentations.
- Subsection 2 addresses reputation and academic attractivity (awards, funding from public sources)
- Subsection 3 lists elements related to the interaction with the social, economic and cultural environment, including the dissemination of scientific information, service to the scientific community at large, patents, and funding from private sources.

A short glossary follows on page 2. Next, groups are listed in the same order as in the main report:

Atom Optics	page 3
Quantum Optics	page 35
Nanophotonics and Electromagnetism	page 50
Nonlinear Materials and Applications	page 71
Biophotonics	page 80
Lasers	page 94
Optical Systems and Components	page118

The short final section, "Miscellaneous", page 136, lists a few references that are not related directly to one specific group and shows a table of joint publications between several groups of LCF as well as joint publications between LCF and the other laboratories of Institut d'Optique, LP2N in Bordeaux and the ERIS team of Laboratoire Hubert Curien in Saint-Etienne.

GLOSSARY

This list of acronyms relates in particular to the financial tables.

ANR	Agence nationale pour la Recherche
CEA	Commissariat à l'Energie atomique et aux Energies nouvelles
CELIA	Centre d'Etudes des Lasers intenses et Applications, Bordeaux
CGM	Centre de Génétique moléculaire, Gif-sur-Yvette
CLUPS	Centre Laser de l'Université Paris-Sud
CNES	Centre national d'Etudes spatiales
CPHT	Centre de Physique théorique (Palaiseau)
CSPBAT	Chimie, Structures, Propriétés de Biomatériaux et Agents thérapeutiques, Villetaneuse
DGA	Délégation générale pour l'Armement
ENST	Ecole nationale supérieure des Télécommunications, Paris
IEF	Institut d'Electronique fondamentale, Orsay
IGM	Institut de Génétique et Microbiologie, Orsay
IMS	Laboratoire de l'Intégration du Matériau au Système, Bordeaux
INL	Institut des Nanotechnologies de Lyon
IPHC	Institut pluridisciplinaire Hubert Curien
ISMO	Institut des Sciences moléculaires d'Orsay
ISV	Institut des Sciences du Végétal, Gif-sur-Yvette
LAC	Laboratoire Aimé Cotton, Orsay
Ladhyx	Laboratoire d'Hydrodynamique de l'Ecole polytechnique, Palaiseau
LNE	Laboratoire national d'Essais
LOMA	Laboratoire Ondes et Matière d'Aquitaine
LPCML	Laboratoire de Physico-Chimie des Matériaux luminescents, Lyon
LPM2C	Laboratoire de Physique et Modélisation des Milieux condensés, Grenoble
LPQM	Laboratoire de Photonique quantique et moléculaire, Cachan
LPTMS	Laboratoire de Physique théorique et Modèles statistiques, Orsay
LPN	Laboratoire de Photonique et Nanostructures, Marcoussis
LPPM	Laboratoire de Photophysique moléculaire, Orsay
LOA	Laboratoire d'Optique appliquée, Palaiseau
LTCI	Laboratoire de Traitement et Communication de l'Information, Paris
LULI	Laboratoire pour l'Utilisation des Lasers intenses, Palaiseau
LUMAT	Fédération de recherche Lumière, Matière (CNRS, Université Paris-Sud, IOGS)
MPL	Max Planck Institute for the Science of Light, Erlangen
MPQ	Max Planck Institute for Quantum Optics, Munich-Garching
ONERA	"The French Aerospace Labs"
PRES UniverSud	Pôle de Recherche et d'Enseignement supérieur d'Ile de France Sud
PHLAM	Laboratoire de Physique des Lasers, Atomes et Molécules, Lille
SYRTE	Systèmes de Référence Temps et Espace, Paris
TRT	Thales Research & Technology, Palaiseau
ULB	Université libre de Bruxelles
XLIM	Institut de Recherche XLIM, Limoges

ATOM OPTICS

OPTIQUE ATOMIQUE

SUMMARY FOR THE ATOM OPTICS GROUP

The reporting period is 1st January 2008 – 30th June 2013. This table summarizes the current (30th June 2013) and cumulative (1st January 2008 – 30th June 2013) data.

Faculty, research faculty (current)	9	Emeritus	1
Non-permanent research scientists (current)	15	Doctoral students (current)	13
Research interns (> 3 months, cumulative)	~15	Peer reviewed journal articles (cumulative)	90
Conference presentations (cumulative)	370	Seminars (cumulative)	88
of which invited conf. presentations (cumul.)	211	Doctoral theses and habilitations defended (cumul.)	25
Patents applications filed (cumulative)	2	Book chapters (cumulative)	1

SCIENTIFIC PUBLICATIONS

(*) Stars indicate publications common to several groups of LCF or to LCF and another laboratory of Institut d'Optique (LP2N in Bordeaux from January 2011, Laboratoire Hubert Curien in Saint-Etienne). They are listed several times as appropriate.

ARTICLES IN INTERNATIONAL PEER-REVIEWED JOURNALS

- A1. [Universal Superfluid Transition and Transport Properties of Two-Dimensional Dirty Bosons](#), **Giuseppe Carleo; Guilhem Bo ris; Markus Holzmann; Laurent Sanchez-Palencia**, *Physical Review Letters*, 2013, 111, pp. 050406
- A2. [Quantum transport of atomic matterwaves in anisotropic 2D and 3D disorder](#), **Marie Piraud; Luca Pezz ; Laurent Sanchez-Palencia**, *New J. Phys.*, 2013, 15, pp. 075007
- A3. [Tunable source of correlated atom beams](#), **Marie Bonneau; Josselin Ruaudel; Rapha l Lopes; Jean-Christophe Jaskula; Alain Aspect; Denis Boiron; Christoph I Westbrook**, *Physical Review A*, 2013, 87 (6), pp. 061603(R)
- A4. [Influence of Gold Coating and Interplate Voltage on the Performance of Chevron Micro-Channel Plates for the Time and Space Resolved Single Particle Detection](#), **Lynn Hoendervanger; David Cl ment; Alain Aspect; Christoph I Westbrook; Danielle Doweck; Yan Picard; Denis Boiron**, *Review of Scientific Instruments*, 2013, 84, pp. 023307
- A5. [Tailoring Anderson localization by disorder correlations in 1D speckle potentials](#), **Marie Piraud; Laurent Sanchez-Palencia**, *Eur. Phys. J. Special Topics*, 2013, vol 217, p. 91-102
- A6. [Momentum isotropisation in random potential](#), **Thomas Plisson; Thomas Bourdel; Cord Mueller**, *the european physical journal*, 2013, 217, pp. 79
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- A10. [Two-body momentum correlations in a weakly interacting one-dimensional Bose gas](#), **Isabelle Bouchoule; Maxim Arzamasov; K. V. Kheruntsyan; Dimitri Gangardt**, *Physical Review A*, 2012, 86, pp. 033626
- A11. [Simultaneous measurement of gravity acceleration and gravity gradient with an atom interferometer](#), **F. Sorrentino; Andrea Bertoldi; Quentin Bodart; L. Cacciapuoti; M. De Angelis; Y.-H. Lien; M. Prevedelli; G. Rosi; G. M. Tino**, *Applied Physics Letters*, 2012, 101, pp. 114106
- A12. [Matter Wave Transport and Anderson Localization in Anisotropic 3D Disorder](#), **Marie Piraud; Luca Pezz ; Laurent Sanchez-Palencia**, *Europhysics Letters*, 2012, 99, pp. 50003
- A13. [Quasiparticle Dynamics in a Bose Insulator Probed by Interband Bragg Spectroscopy](#), **Nicole Fabbri; Sebastian Huber; David Cl ment; Leonardo Fallani; Chiara Fort; Massimo Inguscio; Ehud Altman**, *Physical Review Letters*, 2012, 109 (5), 055301
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- A20. * [Effect of disorder close to the superfluid transition in a two-dimensional Bose gas](#), Baptiste Allard; Thomas Plisson; Markus Holzmann; Guillaume Salomon; Alain Aspect; Philippe Bouyer; Thomas Bourdel, *Physical Review A*, 2012, 85 (3), pp. 033602
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- A28. [An Atomic Gravitational Wave Interferometric Sensor in Low Earth Orbit \(AGIS-LEO\)](#), Jason M. Hogan; David M. S. Johnson; Susannah Dickerson; Tim Kovachy; Alex Sugarbaker; Sheng-wei Chiow; Peter W. Graham; Mark A. Kasevich; Babak Saif; Surjeet Rajendran; Philippe Bouyer; Bernard D. Seery; Lee Feinberg; Ritva Keski-Kuha, *General Relativity and Gravitation*, 2011, 43 (7), pp. 1953-2009
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- A45. [A cold atom pyramidal gravimeter with a single laser beam](#), Quentin Bodart; Sébastien Merlet; Nicola Malossi; Franck Pereira Dos Santos; Philippe Bouyer; Arnaud Landragin, *Applied Physics Letters*, 2010, 96 (13), pp. 134101
- A46. [A quantum trampoline for ultra-cold atoms](#), Martin Robert-De-Saint-Vincent; Jean-Philippe Brantut; Christian Bordé; Alain Aspect; Thomas Bourdel; Philippe Bouyer, *Europhysics Letters*, 2010, 89 (1), pp. 10002
- A47. [Controlling and Detecting Spin Correlations of Ultracold atoms in Optical Lattices](#), Stefan Trotzky; Yu-Ao Chen; Ute Schnorrberger; Patrick Cheinet; Immanuel Bloch, *Physical Review Letters*, 2010, 10 (26), pp. 265303
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- A49. [Entanglement and Sensitivity in Precision Measurements with States of a Fluctuating Number of Particles](#), Philipp Hyllus; Luca Pezzé; Augusto Smerzi, *Physical Review Letters*, 2010, 105 (12), pp. 120501
- A50. [In situ characterization of an optical cavity using atomic light shift](#), Andrea Bertoldi; Simon Bernon; Thomas Vanderbruggen; A. Landragin; Philippe Bouyer, *Optics Letters*, 2010, 35 (22), pp. 3769-3771
- A51. [Joint forces against disorder](#), Laurent Sanchez-Palencia, *Nature Physics*, 2010, 6, pp. 328
- A52. [Rabi interferometry and sensitive measurement of the Casimir-Polder force with ultracold gases](#), Jan Chwedenczuk; Luca Pezzé; Francesco Piazza; Augusto Smerzi, *Physical Review A*, 2010, 82 (3), pp. 032104
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- CINV112. [Wave particle duality for a single photon: quantum weirdness brought to light](#), **Alain Aspect**, *Présentation à l'académie des sciences*, Sep 2010, Paris, France.
- CINV113. [Density fluctuations in a very elongated Bose gas : transition towards quasi-bec and 1D-3D crossover](#), **Isabelle Bouchoule; Julien Armijo; Thibaut Jacqmin**; Karen V. Kheruntsyan, *Dynamics of quantum gases in one dimension*, Sep 2010, Orsay, France.
- CINV114. [Localized and extended states in a disordered trap](#), **Laurent Sanchez-Palencia**, *Plenary Conference of the GdR Physique Quantique Mésooscopique*, Sep 2010, Aussois, France.
- CINV115. [Quantum atom optics with metastable helium: squeezing and phase matching](#), **Denis Boiron; Jean-Christophe Jaskula; Marie Bonneau; Valentina Krachmalnicoff; Guthrie B. Partridge; Vanessa Leung; Alain Aspect; Christoph I Westbrook**; Piotr Deuar; P. Zin; M. Trippenbach; Karen V. Kheruntsyan, *EuroQuam Conference*, Sep 2010, Ischgl, Austria.
- CINV116. [Density fluctuations in a very elongated Bose gas : transition towards quasi-bec and 1D-3D crossover](#), **Isabelle Bouchoule; Julien Armijo; Thibaut Jacqmin**; Karen Kheruntsyan, *12e Journées de la Matière Condensée*, Aug 2010, Troyes, France.
- CINV117. [Simulating transport with atoms and light](#), **Philippe Bouyer**, *Advanced Workshop on Anderson Localization, Nonlinearity and Turbulence: a Cross-Fertilization*, Aug 2010, Trieste, Italy.
- CINV118. [Wave-particle duality for a single photon: quantum weirdness brought to light](#), **Alain Aspect**, *Public lecture*, Aug 2010, Perth, Australia.
- CINV119. [The Handbury Brown and Twiss effect and other landmarks in quantum optics: from photons to atoms](#), **Alain Aspect**, *FNPF Frontiers in Nonlinear Physics*, Jul 2010, Volga, Russian Federation.

- CINV120. [Matter Waves : from quantum simulators to tests of general relativity](#), **Philippe Bouyer**, *Mesoscopic Physics in Complex Media*, Jul 2010, Cargèse, France.
- CINV121. [The Handbury Brown and Twiss effect and other landmarks in quantum optics: from photons to atoms](#), **Alain Aspect**, *International WE Heraeus research school : frontiers in matter wave in interferometry*, Jun 2010, Bad Honnef, Germany.
- CINV122. [Experimental test of Bell's inequalities with correlated photons](#), **Alain Aspect**, *International Conference in Memory of Giulio Racah*, Jun 2010, Jerusalem, Palestinian Territory, Occupied.
- CINV123. [wave-particle duality for a single photon: quantum weirdness brought to light](#), **Alain Aspect**, *Conférence publique : Museo di San Matteo, public lecture*, May 2010, Pise, Italy.
- CINV124. [Anderson localization of matter-waves in controlled disorder: a quantum simulator ?](#), **Alain Aspect**, *ICTP international center for theoretical physics : quantum transport in disordered media*, May 2010, Trieste, Italy.
- CINV125. [Simulating quantum transport with atoms and light](#), **Philippe Bouyer**, *Hybrid quantum systems: new perspectives on quantum state control*, May 2010, Heidelberg, Germany.
- CINV126. [Anderson localization of matter waves in speckle potentials](#), **Pierre Lugan; Juliette Billy; Vincent Josse; Zhanchun Zuo; Alain Bernard; Patrick Cheinet; David Clément; Philippe Bouyer; Alain Aspect; Laurent Sanchez-Palencia**; Dominique Delande; Benoît Grémaud; Cord A. Müller; Christian Miniatura, *13th International Conference on Quantum Optics and Quantum Information (Kiev, Ukraine)*, May 2010, Ukraine.
- CINV127. [La dualité onde-corpuscule pour un photon unique : d'Einstein à Wheeler, l'étrangeté quantique mise en lumière](#), **Alain Aspect**, *Conférence publique à l'espace des sciences*, Apr 2010, Rennes, France.
- CINV128. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, *YAO young atom optician conference*, Apr 2010, Amsterdam, Netherlands.
- CINV129. [L'étrangeté quantique mise en lumière](#), **Alain Aspect**, *Conférence de la Société Française de Physique*, Apr 2010, Nice, France.
- CINV130. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, *Nonlinear phenomena in degenerated quantum gases*, Apr 2010, Ourense, Spain.
- CINV131. [Anderson localization of ultracold atoms in a optical disordered potential](#), **Alain Aspect**, *Frontiers in atomic physics*, Apr 2010, Florence, Italy.
- CINV132. [Anisotropic 2D diffusion of ultracold atom in disorder](#), **Thomas Bourdel; Martin Robert-De-Saint-Vincent; Jean-Philippe Brantut; Baptiste Allard; Thomas Plisson; Philippe Bouyer; Alain Aspect; Luca Pezzé; Laurent Sanchez-Palencia**, *Frontiers on matter-wave optics*, Apr 2010, Sissi, Crete, Greece.
- CINV133. [The Guided Atom Laser : a new tool for studying quantum transport phenomena](#), **Vincent Josse; Alain Aspect; Alain Bernard; Juliette Billy; Philippe Bouyer; Patrick Cheinet; William Guerin; Fred Jendrzejewski**, *Atom laser Conference*, Apr 2010, Les Houches, France.
- CINV134. [Anderson localization in exotic speckle potentials](#), **Marie Piraud; Pierre Lugan; Luca Pezzé; Alain Aspect; Laurent Sanchez-Palencia**, *Young Atom Opticians Conference*, Mar 2010, Amsterdam, Netherlands.
- CINV135. [From single-particle to many-body Anderson localization in interacting Bose gases](#), **Laurent Sanchez-Palencia**, *New Perspectives in Quantum Statistics and Correlations*, Mar 2010, Heidelberg, Germany.
- CINV136. [One-dimensional Anderson localization in correlated random potentials](#), **Pierre Lugan; Alain Aspect; Laurent Sanchez-Palencia**; Dominique Delande; Benoît Grémaud; Cord A. Müller; Christian Miniatura, *DPG March meeting (Hannover, Germany)*, Mar 2010, Germany.
- CINV137. [Quantum states of ultracold Bose gases in 1D random potentials](#), **Pierre Lugan; David Clément; Philippe Bouyer; Alain Aspect**; Maciej Lewenstein; **Laurent Sanchez-Palencia**, *Conference on New Perspectives in Quantum Statistics and Correlations (Heidelberg, Germany)*, Mar 2010, Germany.
- CINV138. [Atom pair correlations and reduction of fluctuations](#), **Christoph I Westbrook**, *Quantum Optics*, Feb 2010, Obergurgl, Austria.

- CINV139. [The Hanbury Brown and Twiss effect and other landmarks in quantum optics: from photons to atoms](#), **Alain Aspect**, *OSA leaders meeting*, Feb 2010, Washington, United States.
- CINV140. [From Bell's inequalities to quantum information: a new quantum age?](#), **Alain Aspect**, *The Elliott W. Monroll lectures*, Feb 2010, Rochester, United States.
- CINV141. [From Einstein to delayed choice experiments: wave particle duality brought to light](#), **Alain Aspect**, *The Elliott W. Monroll lectures / public lecture*, Feb 2010, Rochester, United States.
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- CINV143. [A quantum trampoline for ultracold atoms](#), **Thomas Bourdel; Jean-Philippe Brantut; Martin Robert-De-Saint-Vincent; Alain Aspect; Philippe Bouyer**, *Granit*, Feb 2010, Les Houches, France.
- CINV144. [From Einstein's LichtQuanten to Wheeler's delayed choice experiment: wave-particle duality for a single photon](#), **Alain Aspect**, *Public lecture : la Boris Stoecheff lectures*, Dec 2009, Toronto, Canada.
- CINV145. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, *Conférence Franco-Brésilienne*, Nov 2009, Rio De Janeiro, Brazil.
- CINV146. [Breaking the wall fo quantum weirdness](#), **Alain Aspect**, *Falling whalls conference*, Nov 2009, Berlin, Germany.
- CINV147. [1D Anderson localization of ultra-cold atoms in optical speckles: surprises in a simple problem](#), **Alain Aspect; Laurent Sanchez-Palencia**, *Bose-Einstein condensation 2009, frontiers in quantum gases*, Sep 2009, San Feliu de Guixols, Spain.
- CINV148. [Anderson localization of ultracold atoms in 1D optical speckles: surprises in a simple problem](#), **Alain Aspect; Laurent Sanchez-Palencia**, *BEC2009 - Frontiers in Quantum Gases*, Sep 2009, San Feliu, Spain.
- CINV149. [Localisation d'Anderson d'onde de matières dans un désordre contrôlé](#), **Vincent Josse; Alain Aspect; Alain Bernard; Juliette Billy; Philippe Bouyer; Pierre Lugan; Laurent Sanchez-Palencia**, *COLOQ'11*, Sep 2009, Mouans en Sartoux, France.
- CINV150. [From Einstein's LichtQuanten to Wheeler's delayed choice experiment: quantum weirdness in a new light](#), **Alain Aspect**, *CQIQ3 conference on quantum information and quantum coherence*, Aug 2009, Toronto, Canada.
- CINV151. [From Einstein's LichtQuanten to Wheeler's delayed choice experiment: quantum weirdness in a new light](#), **Alain Aspect**, *ICPEAC, the International Conference on Photonic, Electronic and Atomic Collisions*, Jul 2009, Kalamazoo Michigan, United States.
- CINV152. [The Hanbury Brown and Twiss effect and other landmarks in quantum optics: from photons to atoms \(conférence plénière\)](#), **Alain Aspect**, *EGAS 41 European Group on Atomic Spectroscopy*, Jul 2009, Gdańsk, Poland.
- CINV153. [1D Anderson localization of matter-waves in a \(laser speckle\) disordered potential](#), **Alain Aspect**, *Conférence Nationale SFP*, Jul 2009, Palaiseau, Polytechnique, France.
- CINV154. [L'effet Hanbury Brown and Twiss: des photons aux atomes \(conférence plénière\)](#), **Alain Aspect**, *Conférence Nationale SFO*, Jul 2009, Lille, France.
- CINV155. [All-optical runaway evaporation to Bose-Einstein condensation](#), **Thomas Bourdel; Jean-Philippe Brantut; Jean-François Clément; Martin Robert-De-Saint-Vincent; Alain Aspect; Philippe Bouyer**, *Laser physics*, Jul 2009, Barcelone, Spain.
- CINV156. [Anderson localisation of matter waves](#), **Alain Aspect**, *International School of Physics "Enrico Fermi" on "Nano optics and atomics: transport of light and matter waves"*, Jun 2009, Varenna, Italy.
- CINV157. [Is the moon really there if nobody is looking ? The EPR paradox](#), **Alain Aspect**, *International School of Physics "Enrico Fermi" on "Nano optics and atomics: transport of light and matter waves"*, Jun 2009, Varenna, Italy.
- CINV158. [Bose-Einstein condensation in on dimension](#), **Alain Aspect**, *International School of Physics "Enrico Fermi" on "Nano optics and atomics: transport of light and matter waves"*, Jun 2009, Varenna, Italy.
- CINV159. [Anderson localization of matter-waves in controlled disorder: a quantum simulator ?](#), **Alain Aspect**, *European Quantum Electronics Conference*, Jun 2009, Munich, Germany.
- CINV160. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential \(conférence plénière\)](#), **Alain Aspect**, *International Conference on Laser Spectroscopy*, Jun 2009, Hokkaidō, Japan.
- CINV161. [From Einstein's intuition to quantum bits: a new quantum age ? \(conférence plénière\)](#), **Alain Aspect**, *CLEO-IQEC, International Quantum Electronics Conference*, Jun 2009, Baltimore, United States.

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- CINV163. [Anderson localization of matterwaves in optical speckle](#), **Laurent Sanchez-Palencia**, *Conference on Lasers and Electro-Optics and European Quantum Electronics Conference (CLEO-EQEC 2009)*, Jun 2009, Munich, Germany.
- CINV164. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, *Conférence d'ouverture des journées du RTRA Triangle de la Physique*, May 2009, Orsay, France.
- CINV165. [From Einstein's LichtQuanten to Wheeler's delayed choice experiment: quantum weirdness in a new light](#), **Alain Aspect**, *Colloquium à l'Université d'Innsbruck*, May 2009, Innsbruck, Austria.
- CINV166. [Density fluctuations in a very elongated Bose gas : from ideal gaz to quasi-condensate](#), **Isabelle Bouchoule**, *Conference on research frontiers in ultra-cold atoms*, May 2009, Trieste, Italy.
- CINV167. [Anderson localization of atomic matter-waves in optical speckle potentials](#), **Laurent Sanchez-Palencia**, *40th Annual Meeting of the Division of Atomic, Molecular, and Optical Physics (DAMOP 2009)*, May 2009, Charlottesville (Virginia), United States.
- CINV168. [From Einstein's LichtQuanten to Wheeler's delayed choice experiment: quantum weirdness in a new light](#), **Alain Aspect**, *Colloquium du Département de Physique du MIT*, Apr 2009, Boston, United States.
- CINV169. [Wave-particle duality for a single photon: quantum weirdness in the light, towards future technology \(conférence plénière\)](#), **Alain Aspect**, *125e anniversaire de la SEE Société d'électricité et d'électronique et des TIC*, Mar 2009, Metz, France.
- CINV170. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, *March meeting of the American Physical Society*, Mar 2009, Pittsburgh, United States.
- CINV171. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, *Conférence de la DFG (Société Allemande de Physique)*, Mar 2009, Hamburg, Germany.
- CINV172. [Investigating Anderson localization with gaseous Bose-Einstein condensates](#), **Laurent Sanchez-Palencia; Juliette Billy; Vincent Josse; Zhanchun Zuo; Alain Bernard; Ben Hambrecht; Pierre Lukan; David Clément; Philippe Bouyer; Alain Aspect**, *DPG March meeting*, Mar 2009, Dresden, Germany.
- CINV173. [Towards many-body Anderson localization in interacting Bose-Einstein condensates](#), **Laurent Sanchez-Palencia**, *Workshop on Anderson localization in nonlinear and many-body systems*, Mar 2009, Dresden, Germany.
- CINV174. [Detecting correlations in condensates](#), **Christoph I Westbrook**, *Towards the observation of Hawking radiation in condensed matter systems*, Feb 2009, Valencia, Spain.
- CINV175. [From Einstein's intuition to quantum bits: a new quantum age ?](#), **Alain Aspect**, *Asher Peres Memorial Lecture*, Jan 2009, Technion Haifa, Israel.
- CINV176. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential \(conférence plénière\)](#), **Alain Aspect**
- CINV177. *Conférence de la Société Australienne de Physique*, Dec 2008, Adelaide, Australia
- CINV178. [From Einstein's intuition to quantum bits: a new quantum age ?](#), **Alain Aspect**, *Symposium du Center for Quantum Technologies*, Dec 2008, Singapore.
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- CINV180. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, *Conférence Frontiers of Degenerate Quantum Gases*, Oct 2008, Pekin, China.
- CINV181. [Localisation d'Anderson d'atomes ultra-froids dans un potentiel optique désordonné : un simulateur quantique](#), **Alain Aspect**, *Symposium du GDR Information et Communication Quantique*, Oct 2008, Paris, France.
- CINV182. [Lippmann photography: his light wave of a particle](#), **Alain Aspect**, *The world of Colors in honor of Professor Gabriel Lippmann*, Oct 2008, Paris, France.
- CINV183. [From Einstein's intuition to quantum bits: a new quantum age ?](#), **Alain Aspect**, *IQOQI, conférence d'ouverture de l'Institute for Quantum Optics and Quantum Information*, Oct 2008, Vienne, Austria.
- CINV184. [Anderson localization in interacting Bose-Einstein condensates](#), **Laurent Sanchez-Palencia**, *Strong correlations in multicolor ultracold quantum gases*, Oct 2008, Munich, Germany.
- CINV185. [Atom interferometers, atom lasers and Bose-Einstein condensates: from coherent to quantum atom optics](#), **Alain Aspect**, *Ecole Prédoctorale de Physique des Houches, Refroidissement Laser et*

- Condensation de Bose-Einstein : Overview on Laser Cooling and Bose-Einstein Condensation*, Sep 2008, les houches, France.
- CINV186. [Anderson localization: the naïve view of an AMO experimentalist](#), **Alain Aspect**, *Symposium en l'honneur de Gora Shlyapnikov*, Sep 2008, Paris, France.
- CINV187. [Atomic Hanbury Brown and Twiss effect: a milestone in quantum atom optics](#), **Alain Aspect**, *Symposium en l'honneur de Fujio Shimizu*, Sep 2008, Villetaneuse, France.
- CINV188. [From Einstein's intuition to quantum bits: a new quantum age ?](#), **Alain Aspect**, *Colloquium Columbia University New York*, Sep 2008, New York, United States.
- CINV189. [La lumière : onde ou photon ? L'étrangeté quantique soumise au test de l'expérience](#), **Alain Aspect**, *Conférence de rentrée de l'école normale supérieure de Cachan*, Sep 2008, Cachan, France.
- CINV190. [Detection and manipulation of atoms on chips - and elsewhere](#), **Christoph I Westbrook**, *Photon 08 conference*, Aug 2008, Edinburgh, United Kingdom.
- CINV191. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, *Conference Low temperature twenty-five*, Aug 2008, Amsterdam, Netherlands.
- CINV192. [Direct observation of Anderson localization in atomic Bose-Einstein condensates](#), **Laurent Sanchez-Palencia; Juliette Billy; Vincent Josse; Zhanchun Zuo; Alain Bernard; Ben Hambrecht; Pierre Lugan; David Clément; Philippe Bouyer; Alain Aspect**, *22nd General conference of the Condensed Matter Division of the European Physical Society*, Aug 2008, Roma, Italy.
- CINV193. [Atomic Hanbury Brown and Twiss effect and correlated He* atom pairs: towards atomic entanglement](#), **Alain Aspect**, *Colloque PAMO de la SFP*, Jul 2008, Lille, France.
- CINV194. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, *Neals Bohr summer Institute on ultracold atoms and quark-gluon plasmas*, Jul 2008, Copenhagen, Denmark.
- CINV195. [Measuring two particle correlation functions](#), **Christoph I Westbrook**, *Ultracold Atoms and Quark-Gluon Plasmas*, Jun 2008, Copenhagen, Denmark.
- CINV196. [Anderson localization of matter-waves](#), **Laurent Sanchez-Palencia**, *International conference on atomic physics (ICAP2008)*, Jul 2008, Storrs, United States.
- CINV197. [Anderson localization with ultracold atoms](#), **Laurent Sanchez-Palencia**, *EGC Workshop*, Jul 2008, Gif-sur-Yvette, France.
- CINV198. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, *Séminaire à l'Université de Genève*, Jun 2008, Genève, Switzerland.
- CINV199. [Atomic Hanbury Brown and Twiss effect and correlated He* atom pairs: towards atomic entanglement](#), **Alain Aspect**, *Colloquium du CERN*, Jun 2008, Genève, Switzerland.
- CINV200. [Towards many-body Anderson localization: the case of Bogolyubov quasi-particles](#), **Laurent Sanchez-Palencia**, *Symposium on disorder in cold atomic quantum gases, Ecole Polytechnique*, Jun 2008, Palaiseau, France.
- CINV201. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, *Séminaire de l'Université d'Amsterdam*, May 2008, Amsterdam, Netherlands.
- CINV202. [wave particle duality for a single photon: from Einstein to Wheeler's delayed choice experiment](#), **Alain Aspect**, *Conférence Générale du CEA de Saclay (Saclay colloquium)*, May 2008, Saclay, France.
- CINV203. [From Einstein's intuition to quantum bits: a new quantum age?](#), **Alain Aspect**, *Colloquium du Département de Physique de l'Université du Maryland*, May 2008, College Park USA, United States.
- CINV204. [Direct observation of Anderson localization of matter-waves in a controlled disorder](#), **Laurent Sanchez-Palencia**, *Workshop of the Institut Francilien de Recherche sur les Atomes Froids (IFRAF)*, May 2008, Paris, France.
- CINV205. [Atomic Hanbury Brown and Twiss effect and correlated He* atom pairs: towards atomic entanglement](#), **Alain Aspect**, *Solvay Conference*, Apr 2008, Bruxelles, Belgium.
- CINV206. [Atomic Hanbury Brown and Twiss effect and correlated He* atom pairs: towards atomic entanglement](#), **Alain Aspect**, *Conférence Générale Vrey University Amsterdam*, Apr 2008, Amsterdam, Netherlands.
- CINV207. [Quantum degenerate gases of metastable helium atoms](#), **Denis Boiron; Aurélien Perrin; Valentina Krachmalnicoff; Martijn Schellekens; Hong Chang; Vanessa Leung; Alain Aspect; Christoph I Westbrook**; Steven Moal; Maximilien Portier; Julien Dugué; Michèle Leduc; Claude Cohen-Tannoudji; Tom Jelte; John Mcnamara; Wim Hogervorst; Wim Vassen, *EuroQuam Inaugural Conference*, Apr 2008, Barcelone, Spain.
- CINV208. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, *Conférence de la Société Allemande de Physique de Berlin*, Feb 2008, Berlin, Germany.

- CINV209. [Photon-photon correlation: milestones in quantum optics](#), **Alain Aspect**, *Conference Quantum noise in correlated systems*, Jan 2008, Rehovot, Israel.
- CINV210. [Anderson localization in interacting Bose gases](#), **Laurent Sanchez-Palencia**, *38th Winter workshop on the Physics of Quantum Electronics*, Jan 2008, Snowbird, United States.
- CINV211. [Effects of disorder in 2D](#), **Jean-Philippe Brantut; Gaël Varoquaux; Robert Nyman; Jean-François Clément; Martin Robert-De-Saint-Vincent; Thomas Bourdel; Alain Aspect; Philippe Bouyer**, *Latsis*, Jan 2008, Lausanne, Switzerland

CONFERENCE PRESENTATIONS WITH PUBLISHED PROCEEDINGS

- CA1. [The Hanbury Brown Twiss effect for atomic matter waves](#), **Christoph I Westbrook; Denis Boiron**, *Proceedings of Science. Quantum of Quasars Workshop*, Dec 2009, Grenoble, France. *Proceedings of the "Quantum of Quasars workshop"*, PoS(QQ09)005, 2010
- CA2. * [Reduced photobleaching of BODIPY-FL](#), **David Dulin; Antoine Le Gall; Karen Perronet**; Nicolas Soler; Dominique Fourmy; Satoko Yoshizawa; **Philippe Bouyer; Nathalie Westbrook**, *HBSM*, 2009, Palm Cove, Australia. *Physics Procedia*, 3, pp. 1563-1567, 2010
- CA3. [MINIATOM: Miniaturized Coherent Atom Sensors](#), **Baptiste Battelier**, *Conference on Lasers and Electro-Optics/International Quantum Electronics Conference*, May 2009, Baltimore, United States. *Joint CLEO Poster Session III (2009)*, pp. JThE101
- CA4. [Controllable 3D atomic Brownian motor in optical lattices](#), **Claude M. Dion; Peder Sjolund; Stefan J. H. Petra; Svante Jonsell; Mats Nylen; Laurent Sanchez-Palencia; Anders Kastberg**, *Conference on Theoretical and experimental foundations of recent quantum technologies*, Jul 2006, Durban, South Africa. *European Physical Journal Special Topics*, 159, pp. 11, 2008

CONFERENCE PRESENTATIONS (OTHERS)

- CO1. [Anderson localization in anisotropic disorder: The role of the spectral function in the self-consistent approach](#), **Marie Piraud; Laurent Sanchez-Palencia**; Bart Van Tiggelen, *Conference "Disorder in condensed matter and ultracold atoms"*, Jun 2013, Varenna, Italy.
- CO2. [Dirty bosons in 1D: A quantum Monte Carlo study](#), **Guilhem Boéris; Giuseppe Carleo; Laurent Sanchez-Palencia**, *Conference "Disorder in condensed matter and ultracold atoms"*, Jun 2013, Varenna, Italy.
- CO3. [Localization vs. transport of pair excitations in disordered interacting Bose gases](#), **Samuel Lellouch; Lih-King Lim; Laurent Sanchez-Palencia**, *Conference on Disordered Quantum Systems*, Jun 2013, Varenna, Italy.
- CO4. * [Ultracold Atoms in Disorder: Coherent Backscattering](#), **Fred Jendrzejewski; Kilian Müller; Jérémie Richard; Aditya Date; Thomas Plisson; Philippe Bouyer; Alain Aspect; Vincent Josse**, *44th Annual DAMOP Meeting*, Jun 2013, Quebec, Canada.
- CO5. [Universal Superfluid Transition and Transport Properties of Two-Dimensional Dirty Bosons](#), **Giuseppe Carleo; Guilhem Boéris**; Markus Holzmann; **Laurent Sanchez-Palencia**, *Conference "Disorder in condensed matter and ultracold atoms"*, Jun 2013, Varenna, Italy.
- CO6. [Breathing modes of a 1D gas](#), **Isabelle Bouchoule; Bess Fang; Thibaut Jacqmin; Tarik Berrada; Aisling Johnson**, *Out-of-equilibrium dynamics of 1D condensates*, May 2013, Palaiseau, France.
- CO7. * [Feedback Control of Coherent Spin States in Atomic Interferometers](#), **Ralf Kohlhaas; Etienne Cantin; Andrea Bertoldi; Thomas Vanderbruggen; Simon Bernon; Arnaud Landragin; Alain Aspect; Philippe Bouyer**, *Coherent Control of Complex Quantum Systems*, May 2013, Okinawa, Japan.
- CO8. [Lieb-Robinson bounds In one and two dimensions: A time-dependent variational Monte Carlo study](#), **Giuseppe Carleo**; Federico Becca; Michele Fabrizio; **Laurent Sanchez-Palencia**; Marco Shiro; Sandro Sorella, *International conference "Out-of-equilibrium dynamics of 1D condensates"*, May 2013, Palaiseau, France.
- CO9. [Matter wave transport and Anderson localization in anisotropic disorder](#), **Marie Piraud; Luca Pezzé; Laurent Sanchez-Palencia**, *Conference "Cold atoms and quantum engineering"*, May 2013, Paris, France.
- CO10. [Universal Superfluid Transition and Transport Properties of Two-Dimensional Dirty Bosons](#), **Giuseppe Carleo; Guilhem Boéris**; Markus Holzmann; **Laurent Sanchez-Palencia**, *Conference "Cold atoms and quantum engineering"*, May 2013, Paris, France.
- CO11. * [Studying the propagation of matter waves in disorder: Coherent Backscattering](#), **Jérémie Richard; Fred Jendrzejewski; Kilian Müller; Aditya Date; Thomas Plisson; Philippe Bouyer; Alain Aspect; Vincent Josse**, *Yong Atom Opticians (YAO) 2013*, Apr 2013, Birmingham, United Kingdom.

- CO12. [Superradiance with He*](#), **Almazbek Imanaliev**, *Young Atom Opticians 2013*, Apr 2013, Birmingham, United Kingdom.
- CO13. * [Ultracold Atoms in Disorder: Coherent Backscattering](#), **Fred Jendrzejewski; Kilian Müller; Jérémie Richard; Aditya Date; Thomas Plisson; Philippe Bouyer; Alain Aspect; Vincent Josse**, *DPG Spring Meeting of the Atomic, Molecular, Plasma Physics and Quantum Optics Section*, Mar 2013, Hannover, Germany.
- CO14. * [Disorder effects in 2D](#), **Guillaume Salomon; Thomas Bourdel; Thomas Plisson; Baptiste Allard; Alain Aspect; Philippe Bouyer**, *Universal Themes of Bose-Einstein Condensation (Poster)*, Mar 2013, Leiden, Netherlands.
- CO15. [Cold atoms, weak measurements and feedback for timekeeping](#), **Andrea Bertoldi**, *Physics PhD Workshop 2012-2013 and Opening of the Academic Year of the PhD School*, Feb 2013, Trento, Italy.
- CO16. [Protecting ensemble atomic coherence with weak measurements and feedback](#), **Andrea Bertoldi**, *Graduate College course in cold atoms and metrology*, Dec 2012, Hannover, Germany.
- CO17. * [Ultracold atoms in disorder: 3D localization and Coherent Backscattering](#), **Jérémie Richard; Fred Jendrzejewski; Kilian Müller; Aditya Date; Thomas Plisson; Philippe Bouyer; Alain Aspect; Vincent Josse**, *Ires " Journées des Doctorants d'Atomes Froids "*, Dec 2012, Palaiseau, France.
- CO18. [Matter wave transport and Anderson localization in anisotropic disorder](#), **Marie Piraud; Luca Pezzé; Laurent Sanchez-Palencia**, *Conference "Conférence Recent Developments in Wave Propagation and Imaging in Complex Media"*, Nov 2012, Paris, France.
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- CO125.* [Detection and Manipulation of single biomolecules for the study of ribosome dynamics](#), **David Dulin; Antoine Le Gall; Karen Perronet; Philippe Bouyer; Nathalie Westbrook**; Nicolas Soler; Dominique Fourmy; Satoko Yoshizawa, *International OSA Network of Students Meeting (IONS'05)*, Feb 2009, Barcelone, Spain.
- CO126. [Atom interferometry in microgravity](#), **Remi Geiger; Vincent Ménoret; Guillaume Stern; Patrick Cheinet; Baptiste Battelier; Philippe Bouyer**; Frank Pereira Dos Santos; Arnaud Landragin; Nassim Zahzam; Alexandre BRESSON, *Young Atom Opticians conference*, Feb 2009, Vienne, Austria.
- CO127. [Towards BEC and QND measurements in a crossed high-finesse optical cavity](#), **Thomas Vanderbruggen; Simon Bernon; Andrea Bertoldi; Alain Aspect; Philippe Bouyer**; Frank Pereira Dos Santos; Arnaud Landragin, *Young Atom Opticians Conference (YAO)*, Feb 2009, Vienna, Austria.

- CO128. [A dipole trap for metastable helium](#), Marie Bonneau; Jean-Christophe Jaskula; Valentina Krachmalnicoff; Guthrie B. Partridge; Denis Boiron; Alain Aspect; Christoph I Westbrook, YAO2009, Feb 2009, Vienne, Austria.
- CO129. [Atom chip experiment : high resolution study of density fluctuations in 1D Bose gases](#), Julien Armijo; Carlos Garrido Alzar; Isabelle Bouchoule, *Young Atom Opticians conference*, Feb 2009, Vienne, Austria.
- CO130. [Cold atoms in a folded optical cavity](#), Simon Bernon; Thomas Vanderbruggen; Andrea Bertoldi; Frank Pereira Dos Santos; Arnaud Landragin; Alain Aspect; Philippe Bouyer, *Les Houches Workshop "Quantum physics with atoms and photons"*, Feb 2009, Les Houches, France.
- CO131. [The guided atom laser : a new tool for quantum transport phenomena](#), Vincent Josse; Alain Aspect; Alain Bernard; Juliette Billy; Philippe Bouyer; William Guerin, *Towards the Observation of Hawking Radiation in Condensed Matter Systems*, Feb 2009, Valencia, Spain.
- CO132. [Towards BEC and QND measurement for gravimetry](#), Simon Bernon; Andrea Bertoldi; Thomas Vanderbruggen; Alain Aspect; Arnaud Landragin; Philippe Bouyer, *Ecole jeune chercheur "Quantum Physics with Cold Atoms and Photons"*, Feb 2009, Les Houches, France.
- CO133. [A quantum trampoline for ultra-cold atoms](#), Thomas Bourdel; Martin Robert-De-Saint-Vincent; Jean-Philippe Brantut; Alain Aspect; Philippe Bouyer, *BEC*, 2009, San Feliu, Spain.
- CO134. [A quantum trampoline for ultra-cold atoms](#), Jean-Philippe Brantut; Thomas Bourdel; Martin Robert-De-Saint-Vincent; Alain Aspect; Philippe Bouyer, *ICOLS*, 2009, Hokkaido, Japan.
- CO135. [A quantum trampoline for ultra-cold atoms](#), Martin Robert-De-Saint-Vincent; Jean-Philippe Brantut; Thomas Bourdel; Alain Aspect; Philippe Bouyer, *BEC conference*, 2009, Trieste, Italy.
- CO136. [Anderson localization of the Bogolyubov quasiparticles of interacting Bose-Einstein condensates in correlated random potentials](#), Pierre Lugan; David Clément; Philippe Bouyer; Alain Aspect; Laurent Sanchez-Palencia, *50 Years of Anderson Localization symposium (Paris, France)*, Dec 2008, France.
- CO137. [Ultracold Bose gases in controlled disorder : From single-particle to many-body Anderson localization](#), Laurent Sanchez-Palencia, *colloquium of the Institute for Condensed Matter Theory*, Dec 2008, Karlsruhe, Germany.
- CO138.* [Detection and manipulation of single biomolecules for the study of ribosome dynamics](#), David Dulin; Antoine Le Gall; Karen Perronet; Philippe Bouyer; Nathalie Westbrook; Nicolas Soler; Dominique Fourmy; Satoko Yoshizawa, *European Network of Excellence "Photonics 4 life" Scientific Meeting*, Nov 2008, France.
- CO139. [Anderson Localization of matter-wave in laser speckle](#), Vincent Josse; Alain Aspect; Alain Bernard; Juliette Billy; Philippe Bouyer; Pierre Lugan; Laurent Sanchez-Palencia, *IFRAF (Institut Francilien des Atomes Froids) Comitee*, Nov 2008, Paris, France.
- CO140. [Ultracold Bose gases in controlled disorder : from single-particle to many-body Anderson localization](#), Laurent Sanchez-Palencia, *symposium on vortex lattices and quantum Hall effect*, Nov 2008, Palaiseau, France.
- CO141.* [Single-molecule fluorescence microscopy study of the ribosome translation process](#), Karen Perronet; David Dulin; Nathalie Westbrook; Philippe Bouyer; Nicolas Soler; Satoko Yoshizawa; Dominique Fourmy, *European Optical Society Annual Meeting*, Sep 2008, Villepinte, France.
- CO142. [Anderson localization of the Bogolyubov quasiparticles of interacting Bose-Einstein condensates in correlated random potentials](#), Pierre Lugan; David Clément; Philippe Bouyer; Alain Aspect; Laurent Sanchez-Palencia, *25th international conference on Low Temperature Physics (Amsterdam, The Netherlands)*, Aug 2008, Netherlands.
- CO143. [Observation directe de localisation d'Anderson d'ondes de matière dans un potentiel désordonné](#), Juliette Billy; Alain Aspect; Alain Bernard; Philippe Bouyer; Pierre Lugan; Laurent Sanchez-Palencia; Vincent Josse, *Physique Atomique Moléculaire (PAMO)*, Jul 2008, Lille - Villeneuve d'Ascq, France.
- CO144. [Anderson Localization of matter wave in laser speckle](#), Juliette Billy; Alain Aspect; Alain Bernard; Philippe Bouyer; Vincent Josse; Pierre Lugan; Laurent Sanchez-Palencia, *European Graduate College (EGC)*, Jul 2008, Gif sur Yvette, France.
- CO145. [Noise and correlation measurements using single atom detection](#), Valentina Krachmalnicoff; Denis Boiron; Aurélien Perrin; Hong Chang; Martijn Schellekens; Jean-Christophe Jaskula; Vanessa Leung; Alain Aspect; Christoph I Westbrook, *21st International Conference on Atomic Physics*, Jul 2008, Storrs, United States.
- CO146. [Anderson Localization of an expanding BEC in laser speckle](#), Vincent Josse; Alain Aspect; Alain Bernard; Juliette Billy; Philippe Bouyer; Pierre Lugan; Laurent Sanchez-Palencia, *Fourth International workshop on "Theory of Quantum Gases and Quantum Coherence"*, Jun 2008, Grenoble, France.

- CO147. [Anderson localization of the Bogolyubov quasiparticles of interacting Bose-Einstein condensates in correlated random potentials](#), **Pierre Lukan; David Clément; Philippe Bouyer; Alain Aspect; Laurent Sanchez-Palencia**, *4th international workshop on the Theory of Quantum Gases and Quantum Coherence (Grenoble, France)*, Jun 2008, France.
- CO148. [Laser à atomes guidé](#), **Vincent Josse; Juliette Billy; Zanchun Zuo; Alain Bernard; Philippe Bouyer; Alain Aspect**, *Journée thématique CNES/DGA "Horloges atomiques et senseurs inertiels à ondes de matière : applications et perspectives"*, May 2008, Paris, France.
- CO149. [Anderson Localization of an expanding BEC in laser speckle](#), **Vincent Josse; Alain Aspect; Alain Bernard; Juliette Billy; Philippe Bouyer; Pierre Lukan; Laurent Sanchez-Palencia**, *Workshop annuel de l'IFRAF*, May 2008, Paris, France.
- CO150. [Laser à atomes guidé](#), **Vincent Josse; Alain Aspect; Alain Bernard; Juliette Billy; Philippe Bouyer**, *Journées thématiques CNES/DGA "Horloges atomiques et senseurs inertiels à ondes de matière" - ENSTA*, May 2008, Paris, France.
- CO151. [Noise and correlation measurements using single atom detection](#), **Aurélien Perrin; Jean-Christophe Jaskula; Hong Chang; Valentina Krachmalnicoff; Vanessa Leung; Denis Boiron; Alain Aspect; Christoph I Westbrook**, *Young Atom Optician (YAO)*, Mar 2008, Florence, Italy.
- CO152. [Anderson localization of matter-waves](#), **Alain Bernard; Vincent Josse; Alain Aspect; Juliette Billy; Philippe Bouyer; Pierre Lukan; Laurent Sanchez-Palencia**, *Young Atom Optician (YAO)*, Mar 2008, Florence, Italy.
- CO153.* [Detection and manipulation of single biomolecules for studying ribosome dynamics](#), **David Dulin; Karen Perronet; Nathalie Westbrook; Philippe Bouyer; Nicolas Soler; Satoko Yoshizawa; Dominique Fourmy**, *Journée C'Nano Ile de France*, Feb 2008, Châtenay-Malabry, France.
- CO154. [All-optical evaporative cooling in a versatile optical-dipole trap at telecom wavelength](#), **Martin Robert-De-Saint-Vincent; Alain Aspect; Thomas Bourdel; Philippe Bouyer; Gaël Varoquaux; Jean-Philippe Brantut; Jean-François Clément; Robert Nyman**, *Young Atom Optician (YAO)*, Mar 2008, Florence, Italy.
- CO155. [Matter-wave interferometer using degenerate gases](#), **Martin Robert-De-Saint-Vincent; Jean-Philippe Brantut; Alain Aspect; Thomas Bourdel; Philippe Bouyer**, *IQS scientific meeting*, 2008, Florence, Italy

HABILITATIONS

- HDR1. [Transitions de phase superfluide dans les gaz de Bose 3D, 2D, et en présence de désordre](#), **Thomas Bourdel**, Université Paris Sud - Paris XI, Feb. 2013. French
- HDR2. [Gaz quantiques ultrafroids désordonnés: Etudes théoriques et perspectives expérimentales](#), **Laurent Sanchez-Palencia**, Université Paris Sud - Paris XI, Feb. 2011. English
- HDR3. [Optique atomique quantique sur des nuages ultra-froids d'hélium métastable](#), **Denis Boiron**, Université Paris Sud - Paris XI, Feb. 2009. French
- HDR4. [Mémoire en vue de l'obtention de l'Habilitation à Diriger des Recherches](#), **Isabelle Bouchoule**, Université Paris Sud - Paris XI, Apr. 2008. French

DOCTORAL THESES

- T1. [Localisation d'Anderson d'ondes de matière dans un désordre corrélé : de 1D à 3D](#), **Marie Piraud**, Université Paris Sud - Paris XI, Dec. 2012. English
- T2. [Gaz bidimensionnels désordonnés : diffusion et transition superfluide](#), **Baptiste Allard**, Université Paris Sud - Paris XI, Nov. 2012. French
- T3. [Mesures de corrélations dans un gaz de bosons unidimensionnel sur puce](#), **Thibaut Jacqmin**, Université Paris Sud - Paris XI, Nov. 2012. English
- T4. [Quantum transport of ultracold atoms in disordered potentials](#), **Fred Jendrzejewski**, Université Paris Sud - Paris XI, Nov. 2012. English
- T5. [Accéléromètre à atomes froids aéroporté pour un test du Principe d'Equivalence](#), **Vincent Ménoret**, Université Paris Sud - Paris XI, Sep. 2012. French
- T6. [Propriétés d'équilibre et de transport de gaz de Bose bidimensionnels en présence de désordre](#), **Thomas Plisson**, Physique. Ecole Polytechnique X, Sep. 2012. French
- T7. [Détection non-destructive pour l'interférométrie atomique et Condensation de Bose-Einstein dans une cavité optique de haute finesse](#), **Thomas Vanderbruggen**, Université Paris Sud - Paris XI, Apr. 2012. French
- T8. [Mélange à quatre ondes atomique dans un réseau optique](#), **Marie Bonneau**, Université Paris Sud - Paris XI, Dec. 2011. French
- T9. [Senseur inertiels à ondes de matière aéroporté](#), **Remi Geiger**, Université Paris Sud - Paris XI, Oct. 2011. French

- T10. [Fluctuations de densité dans des gaz de bosons ultrafroids quasi-unidimensionnels](#), **Julien Armijo**, Université Paris Sud - Paris XI, May. 2011. English
- T11. [Piégeage et mesure non-destructive d'atomes froids dans une cavité en anneau de haute finesse](#), **Simon Bernon**, Ecole Polytechnique X, Apr. 2011. English
- T12. [Création et étude de sources d'états non classiques pour l'optique atomique quantique](#), **Jean-Christophe Jaskula**, Physique quantique. Université Paris Sud - Paris XI, Dec. 2010. French
- T13. [Lévitiation d'atomes par interférences et Transport bidimensionnel en présence de désordre](#), **Martin Robert-De-Saint-Vincent**, Université Paris Sud - Paris XI, Dec. 2010. French
- T14. [Transport quantique d'ondes atomiques ultrafroides : localisation d'Anderson et laser à atomes guidé.](#), **Alain Bernard**, Université Pierre et Marie Curie - Paris VI, Nov. 2010. French
- T15. [Propagation quantique d'ondes de matière guidées: Laser à atomes et localisation d'Anderson](#), **Juliette Billy**, Université Paris Sud - Paris XI, Jan. 2010. French
- T16. [Gaz de bosons ultra-froids dans des potentiels désordonnés : excitations collectives et effets de localisation](#), **Pierre Lugan**, physique de la matière condensée et du rayonnement. Ecole Polytechnique X, Jan. 2010. English
- T17. [Réalisation d'un dispositif expérimental pour la détection d'atomes sur une puce opto-atomique et étude d'une micro-cavité optique.](#), **Abdelkrim El Amili**, Physique. Université Paris Sud - Paris XI, Jan. 2010. French
- T18. [Manipulation d'atomes froids dans des potentiels lumineux](#), **Jean-Philippe Brantut**, Physique. Paris-Sud XI, Nov. 2009. French
- T19. [Deux expériences de corrélations quantiques sur des gaz de Hélium métastable : dégroupement de fermions et étude de paires de bosons corrélés par collision de condensats](#), **Valentina Krachmalnicoff**, Université Paris Sud - Paris XI, Jun. 2009. English
- T20. [Réalisation d'un condensat de Bose-Einstein dans un piège dipolaire optique à 1565 nm](#), **Jean-François Clément**, Université Paris Sud - Paris XI, Nov. 2008. French
- T21. [Sources atomiques pour senseurs inertiels interférométriques à long temps d'interrogation](#), **Gaël Varoquaux**, physique quantique. Université Paris Sud - Paris XI; Institut d'Optique, Jan. 2008. English

SEMINAR PRESENTATIONS

- S1. [Coherent back scattering and Anderson localization of ultra-cold atoms in a laser speckle](#), **Alain Aspect**, Séminaire institute for semiconductor physics, Novosibirsk, Apr. 2013
- S2. [From Einstein's intuition to quantum bits: a new quantum age?](#), **Alain Aspect**, Séminaire Lomonossov Moscow state university, Moscou, Apr. 2013
- S3. [Coherent back scattering and Anderson localization of ultra-cold atoms in a laser speckle](#), **Alain Aspect**, Séminaire Kapitza institute, Moscou, Apr. 2013
- S4. [The Handbury Brown and Twiss effect and other landmarks in quantum optics: from photons to atoms](#), **Alain Aspect**, Séminaire Russian quantum center, Moscou, Apr. 2013
- S5. [Coherent back scattering and Anderson localization of ultra-cold atoms in a laser speckle](#), **Alain Aspect**, Séminaire Princeton Center for theoretical science, Princeton USA, Mar. 2013
- S6. [Ultracold atoms in disorder: 3D Localization and Coherent Backscattering](#), **Vincent Josse**, Laboratory for Non Linear Spectroscopy (LENS) – Florence, Mar. 2013
- S7. [Analog to the dynamical Casimir effect in a BEC](#), **Christoph I Westbrook**, Séminaire à l'Université de Technologie de Vienne, Mar. 2013
- S8. [Correlation functions in 1D Bose gases](#), **Isabelle Bouchoule**, Séminaire donné au LPMC de polytechnique, Feb. 2013
- S9. [Localization of ultra-cold atoms in a laser speckle : a quantum simulator of Anderson localization](#), **Alain Aspect**, Séminaire du service de Physique Théorique, CEA Orme des Merisiers, Feb. 2013
- S10. [Localization of ultra-cold atoms in a laser speckle : a quantum simulator of Anderson localization](#), **Alain Aspect**, Séminaires généraux de l'Institut d'Astrophysique de Paris, Feb. 2013
- S11. [Cosmological particle production in the lab](#), **Christoph I Westbrook**, séminaire, University of Nottingham, Jan. 2013
- S12. [Localization of ultra-cold atoms in a laser speckle](#), **Alain Aspect**, Séminaire Max Plank institute distinguished lecturer series, Erlangen Allemagne, Dec. 2012.
- S13. [Analog of dynamical Casimir effect with matter waves](#), **Raphael Lopes**, Seminario departamento de física, universidade do Minho, Braga (Portugal), Dec. 2012.
- S14. [From Einstein's intuition to quantum bits : a new quantum age?](#), **Alain Aspect**, Séminaire University of Buenos Aires, Argentine, Nov. 2012.

- S15. [Localization of ultra-cold atoms in a laser speckle](#), **Alain Aspect**, Séminaire Joint quantum institut, university of Maryland, Washington Etats Unis, Sep. 2012.
- S16. [From Einstein's LichtQuanten to Wheeler's delayed choice experiment: wave-particle duality for a single photon](#), **Alain Aspect**, Séminaire XX Jornadas de optica cuántica y fundamentos de mecánica cuántica, Bilbao Espagne, Jul. 2012.
- S17. [Handbury Brown and Twiss and other correlations: from photon to atom quantum optics](#), **Alain Aspect**, Séminaire XX Jornadas de optica cuántica y fundamentos de mecánica cuántica, Jul. 2012.
- S18. [3D Anderson localization of ultra-cold bosons in a laser speckle](#), **Alain Aspect**, Séminaire XX Jornadas de optica cuántica y fundamentos de mecánica cuántica, Bilbao Espagne, Jul. 2012.
- S19. [From Einstein's intuition to quantum bits: a new quantum age?](#), **Alain Aspect**, Séminaire XX Jornadas de optica cuántica y fundamentos de mecánica cuántica, Bilbao Espagne, Jul. 2012.
- S20. [Localisation d'Anderson d'atomes ultra froid dans un potentiel optique désordonné](#), **Alain Aspect**, Séminaire interne de la DGA, Jun. 2012.
- S21. [The dynamical Casimir effect in a BEC](#), **Christoph I Westbrook**, Séminaire, Université de Hambourg, Jun. 2012.
- S22. [3D Anderson localization of ultra-cold bosons in a laser speckle](#), **Alain Aspect**, Séminaire Max Plank Institute Garching, Allemagne, May. 2012.
- S23. [Matter wave transport and Anderson localization in anisotropic disorder](#), **Laurent Sanchez-Palencia**, Seminar at the Center for Quantum Technologies of Singapore, May. 2012.
- S24. [Handbury Brown and Twiss and other correlations: from photon to atom quantum optics](#), **Alain Aspect**, Séminaire de l'université de Calgari, Canada, Apr. 2012.
- S25. [Correlation functions in 1D Bose gases](#), **Isabelle Bouchoule**, Séminaire donné à l'université de Birmingham, Mar. 2012.
- S26. [Quantum atom optics](#), **Denis Boiron**, Séminaire université de Varsovie, 30 janvier 2012
- S27. [Séminaire à Kaiserslautern](#), **Isabelle Bouchoule**, Séminaire donné à l'université de Kaiserslautern, Jan. 2012.
- S28. [3D localization of ultracold atoms in a laser speckle disorder](#), **Vincent Josse**, Laboratoire de Physique des Lasers - Université Paris XIII, Jan. 2012.
- S29. [3D Anderson localization of ultra-cold bosons in a laser speckle](#), **Alain Aspect**, Séminaire Center for Ultra cold Atoms Colloquium, Harvard États-Unis, Dec. 2011.
- S30. [From Einstein's LichtQuanten to Wheeler's delayed choice experiment: wave-particle duality for a single photon](#), **Alain Aspect**, Séminaire de l'université de Luxembourg, Nov. 2011.
- S31. [3D Localization of ultracold atoms in a laser speckle disorder](#), **Vincent Josse**, Laboratoire Kastler-Brossel - Ecole Normale Supérieure – Paris, Nov. 2011.
- S32. [Localisation d'Anderson d'atomes ultra froid dans un potentiel optique : un exemple de simulateur quantique](#), **Alain Aspect**, Séminaire Inauguration du Labex PALM, Oct. 2011.
- S33. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential: from 1D to 3D](#), **Alain Aspect**, Séminaire de l'université de Nice, Oct. 2011.
- S34. [Density fluctuations in elongated Bose gases : from the weakly to strongly interacting regimes and from 1D to 3D](#), **Isabelle Bouchoule**, Seminaire au CQT, à Singapour, Aug. 2011.
- S35. [Heterodyne non-demolition measurements on cold atoms](#), **Andrea Bertoldi**, Seminaire - Imperial College, Londres (UK), Jul. 2011.
- S36. [Anderson localization of ultracold atoms in anisotropic three-dimensional disorder](#), **Laurent Sanchez-Palencia**, Seminar of the Institut de Ciències Fotòniques (Barcelona, Spain), Jul. 2011.
- S37. [Handbury Brown and Twiss and other correlations: from photon to atom quantum optics](#), **Alain Aspect**, Séminaire Université Paris 7, Jun. 2011.
- S38. [Heterodyne non-demolition measurements on cold atoms](#), **Andrea Bertoldi**, Séminaire - SYRTE, Paris, Jun. 2011
- S39. [Density fluctuations in elongated Bose gases : from the weakly to strongly interacting regimes and from 1D to 3D](#), **Isabelle Bouchoule**, Séminaire au département de physique de l'ENS de Lyon, May. 2011

- S40. [Le photon onde ou particule ? L'étrangeté quantique mise en lumière](#), **Alain Aspect**, Séminaire au lycée Montaigne, Bordeaux, Mar. 2011
- S41. [Anderson localization of ultracold atoms in speckle potentials](#), **Laurent Sanchez-Palencia**, Seminar of the Laboratoire de Physique Statistique de l'Ecole Normale Supérieure (Paris, France) Mar. 2011
- S42. [Ultracold atoms in disordered potentials: Anderson localization and related topics](#), **Laurent Sanchez-Palencia**, Seminar of Statistical Physics of CEA-Saclay (Saclay, France), Mar. 2011
- S43. [The Handbury Brown and Twiss effect and other landmarks in quantum optics: from photons to atoms](#), **Alain Aspect**, Séminaire du département de physique, Stuttgart Allemagne, Jan. 2011
- S44. [L'étrangeté quantique mise en lumière](#), **Alain Aspect**, Séminaire Conférence publique dans le cadre de l'UniverCité ouverte, Gif sur Yvette, Nov. 2010
- S45. [The Hanbury Brown Twiss effect: from kiloKelvin to nanoKelvin](#), **Christoph I Westbrook**, Colloquium, University of Toronto, Nov. 2010
- S46. [Anderson localization of ultracold atoms in speckle potentials: New aspects of a old problem](#), **Laurent Sanchez-Palencia**, Seminar of condensed-matter theory network of Plateau de Saclay (Orsay, France), Sep. 2010
- S47. [The Handbury Brown and Twiss effect and other landmarks in quantum optics: from photons to atoms](#), **Alain Aspect**, Séminaire Master Class of the Institute of Advanced Studies, Perth Australie, Aug. 2010
- S48. [Wave-particle duality for a single photon: quantum weirdness brought to light](#), **Alain Aspect**, Séminaire 50 ans du laser dans la ville lumière, Paris, Jun. 2010
- S49. [Handbury brown and Twiss and other correlations: advances in quantum atom optics](#), **Alain Aspect**, Séminaire Colloquium of the Saint Andrews University, Saint Andrews Ecosse, Jun. 2010
- S50. [La dualité onde-corpuscule pour un photon unique : d'Einstein à Wheeler, l'étrangeté quantique mise en lumière](#), **Alain Aspect**, Conférence publique : CAP sur la lumière, les 10 ans de POPsud, Jun. 2010
- S51. [Coexistence of localized and extended states in a disordered trap](#), **Laurent Sanchez-Palencia**, Seminar of the Atom Optics group of Institut d'Optique (Palaiseau, France), Jun. 2010
- S52. [From Einstein's intuition to quantum bits: a new quantum age?](#), **Alain Aspect**, May. 2010. Séminaire Université Ben Gourion , Beer-Sheva Israël
- S53. [from Einstein's intuition to quantum bits: a new quantum age?](#), **Alain Aspect**, May. 2010. Séminaire Tel Aviv University, Israël
- S54. [The Handbury Brown and Twiss effect and other landmarks in quantum optics: from photons to atoms](#), **Alain Aspect**, Séminaire technion colloquium, Haïfa Israël, May. 2010
- S55. [Anderson localization of matter-waves in controlled disorder: a quantum simulator ?](#), **Alain Aspect**, Séminaire The Elliott W. Montroll lectures, Rochester Etats Unis, Feb. 2010
- S56. [All-optical trapping and QND measurement induced atomic spin squeezing in a cavity](#), **Simon Bernon**, Tübingen (Germany), Universität Tübingen (groupe Nano atomoptics, Prof. Fortagh), 08 juin 2010
- S57. [Anisotropic 2D diffusive expansion of ultra-cold atoms in a disordered potential](#), **Martin Robert-De-Saint-Vincent**, 2010. Université de Stuttgart, groupe de T. Pfau
- S58. [Anisotropic 2D diffusive expansion of ultra-cold atoms in a disordered potential](#), **Martin Robert-De-Saint-Vincent**, 2010. Heidelberg
- S59. [Anisotropic 2D diffusive expansion of ultra-cold atoms in a disordered potential](#), **Martin Robert-De-Saint-Vincent**, Université d'Amsterdam, groupe de J. Walraven, 2010
- S60. [Spontaneous four-wave mixing with matter waves: a source for quantum atom optics experiments.](#), **Denis Boiron**, Université Sao Paulo (Brésil), octobre 2010
- S61. [The first airborne atomic inertial sensor](#), **Rémi Geiger**, Observatoire de Paris, LNE-SYRTE, 27 avril (2010)
- S62. [The Handbury Brown and Twiss effect and other landmarks in quantum optics: from photons to atoms](#), **Alain Aspect**, séminaire du département de physique, Toronto Canada, Dec. 2009
- S63. [The atomic Hanbury Brown-Twiss effect: noise and correlations in cold quantum gases](#), **Christoph I Westbrook**, séminaire Cambridge University, Nov. 2009
- S64. [Des quanta de lumière d'Einstein à l'expérience de choix retardé de Wheeler : l'étrangeté quantique mise en lumière](#), **Alain Aspect**, séminaire Ecole Encre du CNRS, La Rochelle France, Oct. 2009

- S65. [1D Anderson localization of matter-waves in a laser speckle disordered potential](#), **Alain Aspect**, séminaire Arnold Sommerfeld "summer" school, Munich Allemagne, Oct. 2009
- S66. [Anderson Localization of matter-wave in a controlled disorder](#), **Vincent Josse**, Abdus Salam International Center for Theoretical Physics (ICTP), Trieste, Italy, Oct 2009
- S67. [From Einstein's LichtQuanten to Wheeler's delayed choice experiment: quantum weirdness in a new light](#), **Alain Aspect**, séminaire A tour in quantum statistics, Orsay France, Sep. 2009
- S68. [l'effet Hanbury et Twiss](#), **Alain Aspect**, Séminaire université de Nice, Sep. 2009
- S69. [Laser cooling, atomic BEC's and He* : from incoherent to coherent and quantum atom optics](#), **Alain Aspect**, séminaire Paraty winter school, Brésil, Sep. 2009
- S70. [Anderson localization of matterwaves in speckle potentials](#), **Laurent Sanchez-Palencia**, seminar of Laboratoire de Physique et Modélisation des Milieux Condensés (Grenoble, France), Sep. 2009
- S71. [1D Anderson localization of matter-waves in a \(laser speckle\) disordered potential](#), **Alain Aspect**, séminaire du département de physique de l'université, Rio de Janeiro Brésil, Aug. 2009
- S72. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, séminaire Anderson localization of ultracold atoms in a (laser speckle) disordered potential, Innsbruck Autriche, May. 2009
- S73. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, séminaire du Center for ultracold atom MIT-Harvard, MIT Boston USA, Apr. 2009
- S74. [Coherent matter-waves in disordered potentials](#), **Laurent Sanchez-Palencia**, seminar of the Applied Mathematics Center at Ecole Polytechnique (Palaiseau, France), Mar. 2009
- S75. [Anderson localization in ultracold atomic gases](#), **Laurent Sanchez-Palencia**, seminar of theoretical physics at Ecole Normale Supérieure de Lyon (Lyon, France), Feb. 2009
- S76. [Wave particle duality for a single photon: from Einstein to Wheeler's delayed choice experiment](#), **Alain Aspect**, Séminaire général du Weizmann Institute, Israel (Weizmann Institute Rehovot), Jan. 2009
- S77. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, séminaire au Technion Haifa Israel, Jan. 2009
- S78. [All-optical runaway evaporation and quantum trampoline](#), **Jean-Philippe Brantut**, Institute for quantum electronic, ETH, Zurich, Suisse, juillet (2009)
- S79. [Correlations properties of ultra-cold atoms](#), **Denis Boiron**, séminaire à l'Université de Minho (Portugal) avril 2009
- S80. [Fast production of Bose-Einstein condensates in a 1565 nm optical trap](#), **Thomas Bourdel**, ETH Zurich, Suisse, 21 mars 2009
- S81. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, séminaire Swinburne University, Melbourne Australie, Nov. 2008
- S82. [Anderson Localization of matter-wave in a controlled disorder](#), **Vincent Josse**, Institut de Physique Non-Linéaire (INLN), Nice, France, Oct. 2008
- S83. [Anderson localization of ultracold atoms in a \(laser speckle\) disordered potential](#), **Alain Aspect**, séminaire du département de physique du Columbia University of New York, Sep. 2008
- S84. [Atomic Hanbury Brown and Twiss effect and correlated He* atom pairs: towards atomic entanglement](#), **Alain Aspect**, séminaire de l'Institut de Physique Théorique de Saclay, May. 2008
- S85. [Atomic Hanbury Brown and Twiss effect and correlated He* atom pairs: towards atomic entanglement](#), **Alain Aspect**, séminaire de l'Université du Maryland, College Park, USA, May. 200
- S86. [Atomic Hanbury Brown and Twiss effect and correlated He* atom pairs: towards atomic entanglement](#), **Alain Aspect**, séminaire de l'Université d'Aarhus, Danemark, Apr. 2008
- S87. [Atomic Hanbury Brown and Twiss effect and correlated He* atom pairs: towards atomic entanglement](#), **Alain Aspect**, séminaire du Max-Planck Institut für Quantenoptik, Garching Allemagne, Feb. 2008
- S88. [La lumière : onde ou particule ?](#), **Alain Aspect**, Cycle "lumière : onde, photon, quanta", Auditorium du Collège de la Cité des Sciences, 13 mars 2008

REPUTATION AND ACADEMIC ATTRACTIVITY

PRIZES AND AWARDS

Alain Aspect,

- Frederic ives Medal/Jarus Quinn Prize, Optical Society of America (2013)
- Einstein Medal of the Albert Einstein Society (2012)
- lauréat Advanced ERC Grant (2011)
- médaille grand vermeil de la Ville de Paris (2011)

- Herbert Walther Award (Optical Society of America and Deutsche Physikalische Gesellschaft, 2011)
- officier de l'Ordre national du Mérite (2011)
- commandeur de l'Ordre des Palmes académiques (2011)
- Doctor honoris causa, Technion (2011)
- Wolf Prize in Physics (2010)
- Doctor honoris causa, Glasgow University (2010)
- foreign corresponding member, Austrian Academy of Sciences (2009)
- Quantum Electronics Prize, European Optical society (2009)
- Doctor honoris causa, Australian national University, Canberra (2008)
- Doctor honoris causa, Herriot-Watt University (2008)

Philippe Bouyer

- Prix Jean Jerphagnon, 2008

David Clément,

- Lauréat d'une Chaire Junior du RTRA (2011)
- Lauréat d'une Chaire d'excellence CNRS (2010)

Vincent Josse,

- junior Member, Institut Universitaire de France

Laurent Sanchez-Palencia :

- Prix Leconte, Académie des Sciences
- lauréat ERC Starting Grant (2012)

Chris Westbrook

- Prix Servant of the French Academy of Sciences
- Fellow, American Physical Society

Rémy Geiger,

- Prix de thèse ParisTech (2012)

Thomas Vanderbruggen,

- Prix de thèse Ecole doctorale EDOM (2012)

INTERACTIONS WITH SOCIAL, ECONOMIC AND CULTURAL ENVIRONMENT

DISSEMINATION OF SCIENTIFIC INFORMATION

- M1. [Suppressed fluctuations in Fermi gases](#), **Christoph I Westbrook**, *Physics*, 2010, 3, pp. 59
- M2. [La localisation forte d'Anderson](#), Dominique Delande; Jean Claude Garreau; **Laurent Sanchez-Palencia**; Bart Van Tiggelen, *Image de la physique*, 2009, pp. 70-74
- M3. [Localisation d'Anderson d'atomes ultra froids](#), **Alain Aspect; Philippe Bouyer; Vincent Josse; Laurent Sanchez-Palencia**, *Image de la physique*, 2009, pp. 87-93
- M4. [Laser à atomes guidés : un nouvel outil pour l'optique atomique](#), **William Guerin**, *OPTO : revue de l'association des anciens élèves de l'Ecole Supérieure d'Optique*, 2008, 157, pp. 1

SERVICE TO THE SCIENTIFIC COMMUNITY AT LARGE

Isabelle Bouchoule,

- Membre élue du Comité National, section 4 (2012 et 2013)
- Elue au conseil scientifique de l'Institut de Physique du CNRS (2010 et 2011)

Laurent Sanchez-Palencia,

- Evaluator pour la Belgian FNR-FNRS (2013)
- Evaluator pour la Russian New Eurasia Foundation (2013)
- Evaluator pour le Conseil Européen de la Recherche (programme ERC-Advanced grants) (2011 à 2013)
- Member of the steering committee of the Triangle de la Physique since 2011

David Clément,

- Evaluator, pour le Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR), Italie (2012 et 2013)

Philippe Bouyer,

- Expert pour la communauté européenne FP7, programmes technologiques de la région piémontaise (2008)
- Membre du comité national du CNRS, section 4 (2008 à 2012)

PATENTS

- B1. Capteur interférométrique à atomes froids, **P. Bouyer**, A Landragin, dépôt FR20080051599 du 3 décembre 2008, publication FR2928725, extensions CA2717963A1, CN102007371, CN102007371B, EP2257765, US8373112, US20110073753, WO2009118488A2, WO2009118488
- B2. Source d'atome cohérente guidée et interféromètre atomique, **Billy Juliette, Bouyer Philippe, Guerin William, Josse Vincent**, Landragin Arnaud, dépôt EP20080305062 du 19 mars 2008, publications EP2104406, extensions US8288712, US20090242743

OPTIQUE QUANTIQUE

QUANTUM OPTICS

SUMMARY FOR THE QUANTUM OPTICS GROUP

The reporting period is 1st January 2008 – 30th June 2013. This table summarizes the current (30th June 2013) and cumulative (1st January 2008 – 30th June 2013) data.

Faculty, research faculty (current)	7		
Non-permanent research scientists (cumul)	13	Doctoral students (current)	8
Research interns (> 3 months, cumulative)	10	Peer reviewed journal articles (cumulative)	45
Conference presentations (cumulative)	148	Seminars (cumulative)	44
of which invited conf. presentations (cumul.)	60	Doctoral theses and habilitations defended (cumul.)	7
Patents applications filed (cumulative)	1	Book chapters (cumulative)	0

SCIENTIFIC PUBLICATIONS

(*) Stars indicate publications common to several groups of LCF or to LCF and another laboratory of Institut d'Optique (LP2N in Bordeaux from January 2011, Laboratoire Hubert Curien in Saint-Etienne). They are listed several times as appropriate.

ARTICLES IN INTERNATIONAL PEER-REVIEWED JOURNALS

- A1. [Experimental demonstration of long-distance continuous-variable quantum key distribution](#), Paul Jouguet; Sébastien Kunz-Jacques; Anthony Leverrier; **Philippe Grangier**; Eleni Diamanti, *Nature Photonics*, 2013, 7, pp. 378-381
- A2. [Generating non-Gaussian states using collisions between Rydberg polaritons](#), **Jovica Stanojevic; Valentina Parigi; Erwan Bimbard; Alexei Ourjoumtsev**; Pierre Pillet; **Philippe Grangier**, *Physical Review A*, 2012, 86 (2), pp. 021403
- A3. [Improving the maximum transmission distance of continuous-variable quantum key distribution using a noiseless amplifier](#), **Rémi Blandino**; Anthony Leverrier; **Marco Barbieri; Jean Etesse; Philippe Grangier; Rosa Tualle-Brouri**, *Physical Review A*, 2012, 86 (1), pp. 012327
- A4. [Field Test of Classical Symmetric Encryption with Continuous Variable Quantum Key Distribution](#), Paul Jouguet; Sébastien Kunz-Jacques; Thierry Debuisschert; **Simon Fossier**; Eleni Diamanti; Romain Alléaume; **Rosa Tualle-Brouri; Philippe Grangier**; Anthony Leverrier; Philippe Pache; Philippe Painchault, *Optics Express*, 2012, 20 (13), pp. 14030-14041
- A5. [Sub-Poissonian atom number fluctuations using light-assisted collisions](#), **Yvan R. P. Sortais; Andreas Fuhrmanek; Ronan Bourgain; Antoine Browaeys**, *Physical Review A*, 2012, 85, pp. 035406
- A6. [Characterization of a pi-phase shift quantum gate for coherent-state qubits](#), **Rémi Blandino; Franck Ferreyrol; Marco Barbieri; Philippe Grangier; Rosa Tualle-Brouri**, *New Journal of Physics*, 2012, 14, pp. 013017
- A7. [Heralded processes on continuous-variable spaces as quantum maps](#), **Franck Ferreyrol; Nicolò Spagnolo; Rémi Blandino; Marco Barbieri; Rosa Tualle-Brouri**, *Physical Review A*, 2012, 86 (6), pp. 062327
- A8. [Homodyne estimation of Gaussian quantum discord](#), **Rémi Blandino**; Marco Genoni; **Jean Etesse; Marco Barbieri**; Matteo G. A. Paris; **Philippe Grangier; Rosa Tualle-Brouri**, *Physical Review Letters*, 2012, 109 (18), pp. 180402
- A9. [Observation and Measurement of Interaction-Induced Dispersive Optical Nonlinearities in an Ensemble of Cold Rydberg Atoms](#), **Valentina Parigi; Erwan Bimbard; Jovica Stanojevic; Andrew Hilliard; Florence Nogrette; Rosa Tualle-Brouri; Alexei Ourjoumtsev; Philippe Grangier**, *Physical Review Letters*, 2012, 109, pp. 233602
- A10. [Study of light-assisted collisions between a few cold atoms in a microscopic dipole trap](#), **Andreas Fuhrmanek; Ronan Bourgain; Yvan R. P. Sortais; Antoine Browaeys**, *Physical Review A*, 2012, 85 (6), pp. 062708
- A11. [Controlling the quantum state of a single photon emitted from a single polariton](#), **Jovica Stanojevic; Valentina Parigi; Erwan Bimbard; Rosa Tualle-Brouri; Alexei Ourjoumtsev; Philippe Grangier**, *Physical Review A*, 2011, 84, pp. 053830
- A12. [Observation of squeezed light from one atom excited with two photons](#), **Alexei Ourjoumtsev**; Alexander Kubanek; Markus Koch; Christian Sames; Pepijn Pinkse; Gerhard Rempe; Karim Murr, *Nature*, 2011, 474, pp. 623-626
- A13. [Experimental realization of a nondeterministic optical noiseless amplifier](#), **Franck Ferreyrol; Rémi Blandino; Marco Barbieri; Rosa Tualle-Brouri; Philippe Grangier**, *Physical Review A*, 2011, 83 (6), pp. 063801

- A14. [Nondeterministic noiseless amplification of optical signals: a review of recent experiments](#), **Marco Barbieri; Franck Ferreyrol; Rémi Blandino; Rosa Tualle-Brouri; Philippe Grangier**, *Laser Physics Letters*, 2011, 8 (6), pp. 411-417
- A15. [Time-resolved detection of relative-intensity squeezed nanosecond pulses in an \(87\)Rb vapor](#), **Imad H. Agha; Christina Giarmatzi; Quentin Glorieux; Thomas Coudreau; Philippe Grangier; Gaëtan Messin**, *New Journal of Physics*, 2011, 13, pp. 043030
- A16. [Continuous-variable quantum-key-distribution protocols with a non-Gaussian modulation](#), **Anthony Leverrier; Philippe Grangier**, *Physical Review A*, 2011, 83 (4), pp. 042312
- A17. [Free-space lossless state-detection of a single trapped atom](#), **Andreas Fuhrmanek; Ronan Bourgain; Yvan R. P. Sortais; Antoine Browaeys**, *Physical Review Letters*, 2011, 106 (13), pp. 133003
- A18. [Controlling the single-diamond nitrogen-vacancy color center photoluminescence spectrum with a Fabry-Perot microcavity](#), **Yannick Dumeige; Romain Alléaume; Philippe Grangier; François Treussart; Jean-François Roch**, *New Journal of Physics*, 2011, 13, pp. 025015
- A19. [Time-resolved detection of relative intensity squeezed nanosecond pulses in a Rb87 vapor](#), **Imad H. Agha; Christina Giarmatzi; Quentin Glorieux; Thomas Coudreau; Philippe Grangier; Gaëtan Messin**, *New Journal of Physics*, 2011, 13 (4), pp. 043030
- A20. [A simple proof that Gaussian attacks are optimal among collective attacks against continuous-variable quantum key distribution with a Gaussian modulation](#), **Anthony Leverrier; Philippe Grangier**, *Physical Review A*, 2010, 81, pp. 062314
- A21. [Analysis of the entanglement between two individual atoms using global Raman rotations](#), **Alpha Gaëtan; Charles Evellin; Janik Wolters; Philippe Grangier; Tatjana Wilk; Antoine Browaeys**, *New Journal of Physics*, 2010, 12, pp. 065040
- A22. [Coherent excitation of a single atom to a Rydberg state](#), **Yevhen Miroshnychenko; Alpha Gaëtan; Charles Evellin; Philippe Grangier; Daniel Comparat; Pierre Pillet; Tatjana Wilk; Antoine Browaeys**, *Physical Review A*, 2010, 82, pp. 013405
- A23. [Entanglement of two individual neutral atoms using Rydberg blockade](#), **Tatjana Wilk; Alpha Gaëtan; Charles Evellin; Janik Wolters; Yevhen Miroshnychenko; Philippe Grangier; Antoine Browaeys**, *Physical Review Letters*, 2010, 104, pp. 010502
- A24. [Finite-size analysis of a continuous-variable quantum key distribution](#), **Anthony Leverrier; Frédéric Grosshans; Philippe Grangier**, *Physical Review A*, 2010, 81, pp. 062343
- A25. [Generation of pulsed and continuous-wave squeezed light with 87 Rb vapor](#), **Imad H. Agha; Gaëtan Messin; Philippe Grangier**, *Optics Express*, 2010, 18, pp. 4198
- A26. [Imaging a single atom in a time-of-flight experiment](#), **Andreas Fuhrmanek; Andrew Matheson Lance; Charles Tuchendler; Philippe Grangier; Yvan R. P. Sortais; Antoine Browaeys**, *New Journal of Physics*, 2010, 12, pp. 053028
- A27. [Implementation of a non-deterministic optical noiseless amplifier](#), **Franck Ferreyrol; Marco Barbieri; Rémi Blandino; Simon Fossier; Rosa Tualle-Brouri; Philippe Grangier**, *Physical Review Letters*, 2010, 104, pp. 123603
- A28. [Measurement of the atom number distribution in an optical tweezer using single-photon counting](#), **Andreas Fuhrmanek; Yvan R. P. Sortais; Philippe Grangier; Antoine Browaeys**, *Physical Review A: Atomic, Molecular and Optical Physics*, 2010, 82, pp. 023623
- A29. [Non-Gaussianity of quantum states: an experimental test on single-photon added coherent states](#), **Marco Barbieri; Nicolò Spagnolo; Marco G. Genoni; Franck Ferreyrol; Rémi Blandino; Matteo G. A. Paris; Philippe Grangier; Rosa Tualle-Brouri**, *Physical Review A: Atomic, Molecular and Optical Physics*, 2010, 82, pp. 063833
- A30. [Quantum repeaters with entangled coherent states](#), **Nicolas Sangouard; Christoph Simon; Nicolas Gisin; Julien Laurat; Rosa Tualle-Brouri; Philippe Grangier**, *Journal of the Optical Society of America. B, Optical Physics*, 2010, 27, pp. A137-A145
- A31. [Unconditional security proof of long-distance continuous-variable quantum key distribution with discrete modulation](#), **Anthony Leverrier; Philippe Grangier**, *Physical Review Letters*, 2009, 102 (18), pp. 180504
- A32. [Observation of collective excitation of two individual atoms in the Rydberg blockade regime](#), **Alpha Gaëtan; Yevhen Miroshnychenko; Tatjana Wilk; Amodsen Chotia; Matthieu Viteau; Daniel Comparat; Pierre Pillet; Antoine Browaeys; Philippe Grangier**, *Nature Physics*, 2009, 5, pp. 115-118
- A33. [A multimode model for projective photon-counting measurements](#), **Rosa Tualle-Brouri; Alexei Ourjoumtef; Aurelien Dantan; Philippe Grangier; Martijn Wubs; Anders Sorensen**, *Physical Review A*, 2009, 80 (1), pp. 013806

- A34. [Field test of a continuous-variable quantum key distribution prototype](#), **Simon Fossier; Eleni Diamanti**; Thierry Debuisschert; **André Villing; Rosa Tualle-Brouri; Philippe Grangier**, *New Journal of Physics*, 2009, 11, pp. 045023
- A35. [Improvement of continuous-variable quantum key distribution systems by using optical preamplifiers](#), **Simon Fossier; Eleni Diamanti**; Thierry Debuisschert; **Rosa Tualle-Brouri; Philippe Grangier**, *Journal of Physics B: Atomic, Molecular and Optical Physics*, 2009, 42, pp. 114014
- A36. [Multiple-measurement Leggett-Garg inequalities](#), **Marco Barbieri**, *Physical Review A*, 2009, 80, pp. 034102
- A37. [Preparing non-local superpositions of quasi-classical light states](#), **Alexei Ourjoumtsev; Franck Ferreyrol; Rosa Tualle-Brouri; Philippe Grangier**, *Nature Physics*, 2009, 5, pp. 189-192
- A38. [Security of continuous-variable quantum key distribution: towards a de Finetti theorem for rotation symmetry in phase space](#), Anthony Leverrier; E. Karpov; **Philippe Grangier**; Nicolas Cerf, *New Journal of Physics*, 2009, 11, pp. 115009
- A39. [The SECOQC quantum key distribution network in Vienna](#), M. Peev; C. Pacher; R. Alléaume; C. Barreiro; J. Bouda; W. Boxleitner; Thierry Debuisschert; **Eleni Diamanti**; M. Dianati; J.F. Dynes; S. Fasel; **Simon Fossier**; M. Fürst; J.D. Gautier; O. Gay; Nicolas Gisin; **Philippe Grangier**; A. Happe; Y. Hasani; M. Hentschel; H. Hübel; G. Humer; T. Länger; M. Legré; R. Lieger; **Jérôme Lodewyck**; T. Lorünser; Norbert Lutkenhaus; A. Marhold; T. Matyus; O. Maurhart; L. Monat; S. Nauerth; J.B. Page; A. Poppe; E. Querasser; G. Ribordy; S. Robyr; L. Salvail; A.W. Sharpe; A.J. Shields; D. Stucki; M. Suda; C. Tamas; T. Themel; R.T. Thew; Y. Thoma; A. Treiber; P. Trinkler; **Rosa Tualle-Brouri**; F. Vannel; N. Walenta; H. Weier; H. Weinfurter; I. Wimberger; Z.L. Yuan; H. Zbinden; A. Zeilinger, *New Journal of Physics*, 2009, 11, pp. 075001
- A40. * [Delayed-choice test of complementarity with single photons](#), Vincent Jacques; E. Wu; Frédéric Grosshans; François Treussart; **Philippe Grangier; Alain Aspect**; Jean-François Roch, *Physical Review Letters*, 2008, 100 (22), pp. 220402
- A41. * [Wheeler's delayed-choice thought experiment: Experimental realization and theoretical analysis](#), Vincent Jacques; E. Wu; Frédéric Grosshans; François Treussart; **Alain Aspect; Philippe Grangier**; Jean-François Roch, *Annales de Physique*, 2008, 32 (2-3), pp. 195
- A42. [Multidimensional reconciliation for continuous-variable quantum key distribution](#), Anthony Leverrier; Romain Alléaume; Joseph Boutros; Gilles Zemor; **Philippe Grangier**, *Physical Review A*, 2008, 77 (4), pp. 042325
- A43. [Energy distribution and cooling of a single atom in an optical tweezer](#), **Charles Tuchendler; Andrew Matheson Lance; Antoine Browaeys; Yvan R. P. Sortais; Philippe Grangier**, *Physical Review A*, 2008, 78, pp. 033425
- A44. [Illustration of quantum complementarity using single photons interfering on a grating](#), V. Jacques; N.D. Lai; A. Dréau; D. Zheng; D. Chauvat; François Treussart; **Philippe Grangier**; Jean-François Roch, *New Journal of Physics*, 2008, 10, pp. 123009
- A45. [Nonclassical photon statistics in a single nickel-nitrogen diamond color center photoluminescence at room temperature](#), E. Wu; J.R. Rabeau; F. Treussart; H. Zeng; **Philippe Grangier**; Steven Prawer; Jean-François Roch, *Journal of Modern Optics*, 2008, 55 (17), pp. 2893 - 2901

EDITORIAL COMMENTS

- CE1. [Room for Just One Photon](#), **Philippe Grangier**, *Science*, 2012, 336 (6083), pp. 812-813
- CE2. [Preserving quantum nondemolition](#), **Philippe Grangier**, *Physics Today*, 2012, 65 (4), pp. 11-12
- CE3. [Make It Quantum and Continuous](#), **Philippe Grangier**, *Science*, 2011, 332 (6027), pp. 313-314
- CE4. [Repairing quadrature entanglement](#), **Alexei Ourjoumtsev**, *Nature Photonics*, 2010, 4, pp. 136-138
- CE5. [Vers le quantique macroscopique](#), **Alexei Ourjoumtsev**, *Pour la science - Dossier*, 2010, 68, pp. xx
- CE6. [Rydberg molecules: the making and breaking of bonds](#), **Antoine Browaeys**; Pierre Pillet, *Nature Physics*, 2010, 6, pp. 941
- CE7. [Don't look now](#), **Alexei Ourjoumtsev**, *Nature*, 2008, 456, pp. 880-881
- CE8. [Quantum leaps in small steps](#), Tommaso Calarco; **Philippe Grangier**; Andreas Wallraff; Peter Zoller, *Nature Physics*, 2008, 4, pp. 2-3

INVITED PRESENTATIONS

- CINV1. [Direct measurement of the van der Waals interaction between two Rydberg atoms](#), **Thierry Lahaye; Lucas Béguin; Aline Vernier**; Radu Chicireanu; **Sylvain Ravets; Henning Labuhn; Antoine Browaeys**, *DAMOP2012*, Jun 2013, Quebec City, Canada.
- CINV2. [Quantum Information Processing with Atomic and Photonic Qubits using Rydberg Blockade](#), **Philippe Grangier**, *Winter School on Rydberg states*, Feb 2013, Obergurgl, Austria.

- CINV3. [experimental investigation of long range dipole dipole interaction between cold atoms](#), **Antoine Browaeys; Thierry Lahaye; Yvan R. P. Sortais; Ronan Bourgain; Joseph Pellegrino; Lucas Béguin; Aline Vernier**, *European science foundation research conference on "cold and ultra cold molecules"*, Nov 2012, Obergurgl, Austria.
- CINV4. [Quantum Information Processing with Atomic and Photonic Qubits using Rydberg Blockade](#), **Philippe Grangier**, *Quantum Optics VI*, Nov 2012, Piriapolis, Uruguay.
- CINV5. [Potentialities of continuous variables and of heralded operations for quantum communications](#) ?, **Rosa Tualle-Brouri**, *Royal Society International Scientific Seminar*, Sep 2012, Chicheley, United Kingdom.
- CINV6. [Quantum Information Processing with Atomic and Photonic Qubits using Rydberg Blockade](#), **Philippe Grangier**, *Gordon Conference on Quantum Science*, Aug 2012, Boston, United States.
- CINV7. [Manipulating single atoms and single photons using cold Rydberg atoms](#), **Philippe Grangier**, *International Conference on Quantum Communications, Measurement and Computing (QCMC)*, Aug 2012, Vienne, Austria.
- CINV8. [Quantum Communications with Continuous Variables](#), **Philippe Grangier**, *Summer School*, Jul 2012, Blaubeuren, Germany.
- CINV9. [experimental investigation of long range dipole dipole interaction between cold atoms](#), **Antoine Browaeys; Yvan R. P. Sortais; Thierry Lahaye; Lucas Béguin; Aline Vernier; Ronan Bourgain; Joseph Pellegrino**, *Quantum walks, quantum simulators and quantum networks*, Jul 2012, Bonn, Germany.
- CINV10. [Near resonant scattering by a dense and small sample of cold atoms](#), **Antoine Browaeys; Yvan R.P. Sortais; Ronan Bourgain; Joseph Pellegrino**, *Workshop COSCALI*, Jul 2012, Tubingen, Germany.
- CINV11. [Expanding the experimental frontiers of heralded operation for quantum communications](#) ?, **Jean Etesse; Rémi Blandino; Franck Ferreyrol; Marco Barbieri; Philippe Grangier; Rosa Tualle-Brouri**, *Continuous Variable Quantum Information Processing 2012 (CVQIP'12)*, Apr 2012, Frederiksdal, Denmark.
- CINV12. [Quantum Information Processing using Rydberg Blockade with Atoms in Optical Tweezers](#), **Philippe Grangier**, *Winter School*, Feb 2012, Obergurgl, Austria.
- CINV13. [Study of few interacting atoms using optical tweezers](#), **Antoine Browaeys; Charles Evellin; Tatjana Wilk; Alpha Gaëtan; Janik Wolters; Yevhen Miroshnychenko; Philippe Grangier; Pierre Pillet; Daniel Comparat; Jonathan Balewsky; Radu Chicireanu; Yvan R. P. Sortais; Andreas Fuhrmanek; Ronan Bourgain; Joseph Pellegrino**, *IPS - SFP Joint Meeting*, Jan 2012, Singapore, Singapore.
- CINV14. [Feedback cooling of a single neutral atom](#), **Alexei Ourjoumtsev**, *CEA-EDF-INRIA School on Quantum Information, Measurement and Control*, Nov 2011, Roquencourt, France.
- CINV15. [Squeezed light from one atom excited with two photons](#), **Alexei Ourjoumtsev**, *International Workshop on Quantum Manipulation of Atoms and Photons*, Oct 2011, Shanghai, China.
- CINV16. [Manipulating cold atoms in Rydberg states for quantum information processing](#), **Philippe Grangier**, *Engineering and Control of Quantum Systems*, Oct 2011, Dresden, Germany.
- CINV17. [Optical amplification in QI systems](#), **Philippe Grangier**, *Symposium on Optical Implementation of Quantum Information*, Oct 2011, Manchester, United Kingdom.
- CINV18. [Quantum Cryptography with Continuous Variables](#), **Philippe Grangier**, *QCRYPT 2011: First Annual Conference on Quantum Cryptography*, Sep 2011, Zürich, Switzerland.
- CINV19. [Entanglement of two atoms using the rydberg blockade](#), **Antoine Browaeys; Charles Evellin; Alpha Gaëtan; Tatjana Wilk; Janik Wolters; Philippe Grangier; Yevhen Miroshnychenko**, *Pushing Frontiers in quantum information*, Sep 2011, Heidelberg, Germany.
- CINV20. [Entanglement of two individual atoms using the Rydberg Blockade](#), **Antoine Browaeys; Charles Evellin; Tatjana Wilk; Alpha Gaëtan; Janik Wolters; Yevhen Miroshnychenko; Philippe Grangier; Pierre Pillet; Daniel Comparat; Jonathan Balewsky; Radu Chicireanu**, *International Conference on Electron and Atom Collisions (ICPEAC)*, Jul 2011, Belfast, Ireland.
- CINV21. [Quantum communications using coherent detection schemes](#), **Philippe Grangier**, *20th International Laser Physics Workshop (LPHYS'11)*, Jul 2011, Sarajevo, Bosnia And Herzegovina.
- CINV22. [Intrication de deux atomes par blocage de Rydberg](#), **Antoine Browaeys; Janik Wolters; Charles Evellin; Tatjana Wilk; Philippe Grangier; Alpha Gaëtan; Yevhen Miroshnychenko**, *COLOQ12*, Jul 2011, Marseilles, France.
- CINV23. [Quantum Communications with Gaussian and non-Gaussian States of Light](#), **Philippe Grangier**, *International on Quantum Information (ICQI)*, Jun 2011, Ottawa, Canada.

- CINV24. [Quantum Communications using Coherent Detection Schemes](#), **Philippe Grangier**, *Quantum Science and Technologies in Rovereto (Italy)*, May 2011, Rovereto, Italy.
- CINV25. [Quantum information processing with single atoms and Rydberg blockade](#), **Philippe Grangier**, *Minerva Conference*, Nov 2010, Rehovot, Israel.
- CINV26. [Schrödinger's Kittens and Non-Gaussian States of the Light: New Tools for Quantum Communications](#), **Philippe Grangier**, *UQCC 2010 - Updating Quantum Cryptography*, Oct 2010, Tokyo, Japan.
- CINV27. [Updating quantum cryptography and communications](#), **Philippe Grangier**, *Updating quantum cryptography and communications*, Oct 2010, Tokyo, Japan.
- CINV28. [Quantum information processing with trapped individual atoms](#), **Philippe Grangier**, *International Conference on Quantum Information and Computation*, Sep 2010, Stockholm, Sweden.
- CINV29. [A non-deterministic noiseless optical amplifier](#), **Franck Ferreyrol; Rémi Blandino; Marco Barbieri; Simon Fossier; Rosa Tualle-Brouri; Philippe Grangier**, *International Conference on Coherent and Nonlinear Optics*, Aug 2010, Kazan, Russian Federation.
- CINV30. [Quantum information processing with neutral atoms using Rydberg blockade](#), **Philippe Grangier**, *ICAP, 22nd International Conference on Atomic Physics*, Jul 2010, Cairns, Australia.
- CINV31. [Quantum information with continuous variables](#), **Philippe Grangier**, *International Conference on Quantum Communication, Measurement and Computation (QCMC)*, Jul 2010, Brisbane, Australia.
- CINV32. [Entanglement of two individual atoms using the Rydberg blockade](#), **Antoine Browaeys; Alpha Gaëtan; Tatjana Wilk; Charles Evellin; Janik Wolters; Yevhen Miroshnychenko; Philippe Grangier; Pierre Pillet; Daniel Comparat**, *10th European Conference on Atoms, Molecules and Photons - 4-9 July 2010 Palacio de Congreso Salamanca*, Jul 2010, Salamanca, Spain.
- CINV33. [New adventures in non-Gaussian space](#), **Franck Ferreyrol; Rémi Blandino; Marco Barbieri; Rosa Tualle-Brouri; Philippe Grangier**, *19th International Laser Physics Workshop*, Jul 2010, Foz do Iguaçu, Brazil.
- CINV34. [Information processing with continuous variables](#), **Philippe Grangier**, *CV-QIP'10: 7th Workshop on Continuous-Variable Quantum Information Processing*, Jun 2010, Herrsching, Germany.
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- CO70. [Entangling two individual neutral atoms using the Rydberg blockade](#), **Tatjana Wilk; Alpha Gaëtan; Charles Evellin; Yevhen Miroschnychenko; Janik Wolters**; Amodsen Chotia; Matthieu Viteau; Daniel Comparat; Pierre Pillet; **Antoine Browaeys; Philippe Grangier**, *International Conference on Applied Optics*, 2009, Bad Honnef, Germany.
- CO71. [Single photon sources for quantum information](#), **Gaëtan Messin**, *Workshop, Tutorial invité à l'International Symposium for Young Researchers : Quantum Manipulation of Photons and Atoms Pékin et Shanghai*, Oct 2008, China.
- CO72. [Studying the Rydberg blockade with individually trapped single atoms](#), **Alpha Gaëtan; Charles Evellin; Yevhen Miroschnychenko; Tatjana Wilk**; Amodsen Chotia; Matthieu Viteau; Daniel Comparat; Pierre Pillet; **Antoine Browaeys; Philippe Grangier**, *Colloque du GdR "Information et communication quantiques, Paris*, Oct 2008, Paris, France.

- CO73. [Energy distribution and cooling of neutral atoms in an optical tweezer](#), **Andrew Lance; Charles Tuchendler; Yvan R. P. Sortais; Antoine Browaeys; Philippe Grangier**, *21ème ICAP 2008, Storrs Connecticut (USA)*, Jul 2008, Storrs Connecticut, United States.
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- CO75. [Energy distribution and cooling of a single atom in an optical tweezer](#), **Charles Tuchendler; Andrew Lance; Yvan R. P. Sortais; Antoine Browaeys; Philippe Grangier**, *Workshop IFRAF*, May 2008, Paris, France.
- CO76. [Rydberg excitation of single atoms in optical tweezers](#), **Alpha Gaëtan; Yevhen Miroshnychenko; Tatjana Wilk; Charles Evellin; Gaëtan Messin; Antoine Browaeys; Philippe Grangier**; Matthieu Viteau; Amodsen Chotia; Daniel Comparat; Pierre Pillet, *Workshop on Rydberg atoms*, May 2008, Sandbjerg Estate, Denmark.
- CO77. [Quantum Key Distribution over 25 km. using a Fiber Setup. Based on Continuous Variables](#), **Simon Fossier; Jérôme Lodewyck; Eleni Diamanti**; Matthieu Bloch; Thierry Debuisschert; **Rosa Tualle-Brouri; Philippe Grangier**, *Cleo/Qels Conference*, May 2008, San Jose, California, United States.
- CO78. [Towards entanglement of two individual atoms using the Rydberg blockade](#), **Alpha Gaëtan; Charles Evellin; Yevhen Miroshnychenko; Tatjana Wilk**; Amodsen Chotia; Matthieu Viteau; Daniel Comparat; Pierre Pillet; **Antoine Browaeys; Philippe Grangier**, *DPG-Meeting Hambourg*, Mar 2008, Hambourg, Germany.
- CO79. [Single neutral atomic qubit manipulations in microscopic dipole trap](#), **Charles Tuchendler; Andrew Lance; Yvan R. P. Sortais; Antoine Browaeys; Philippe Grangier**, *ESF-FWF Conference in Partnership with Ifui quantum optics: from photons and atoms to molecules and solid state systems*, Feb 2008, Obergurgl, Austria.
- CO80. [Investigation of cooling a single neutral atom in a microscopic dipole trap](#), **Andrew M. Lance; Charles Tuchendler; Yvan R. P. Sortais; Antoine Browaeys; Philippe Grangier**, *SCALA 3rd annual meeting*, Jan 2008, Mainz, Germany.
- CO81. [Superpositions non-locales d'états cohérents de la lumière](#), **Alexei Ourjoumtsev**, *Colloque du Groupe de Recherche Information Quantique (GDR-IQ 08)*, 2008, Paris, France

DOCTORAL THESES

- T1. [Intrication de champs quantiques mesoscopiques pour les communications quantiques](#), **Rémi Blandino**, Université Paris Sud - Paris XI, Mar. 2013. [French](#)
- T2. [From single to many atoms in a microscopic optical dipole trap](#), **Andreas Fuhrmanek**, Université Paris Sud - Paris XI, Sep. 2011. [English](#)
- T3. [Interactions entre atomes de rubidium dans des états de Rydberg et intrication par blocage de Rydberg](#), **Charles Evellin**, Optique et milieux dilués. Ecole Polytechnique X, Sep. 2011. [French](#)
- T4. [Manipulation de champs quantiques mésoscopiques](#), **Franck Ferreyrol**, Université Paris Sud - Paris XI, Mar. 2011. [French](#)
- T5. [Intrication de deux atomes en utilisant le blocage de Rydberg](#), **Alpha Gaëtan**, Université Paris Sud - Paris XI, Dec. 2009. [French](#)
- T6. [Etude théorique de la distribution quantique de clés à variables continues](#), **Anthony Leverrier**, Télécom ParisTech, Nov. 2009. [English](#)
- T7. [Mise en œuvre et évaluation de dispositifs de cryptographie quantique à longueur d'onde télécom](#), **Simon Fossier**, Université Paris Sud - Paris XI, Oct. 2009. [French](#)

SEMINAR PRESENTATIONS

- S1. [Quantum information with atoms and photons](#), **Philippe Grangier**, Séminaire à l'Université d'Erlangen, Apr. 2013
- S2. [Experimental investigation of the dipole-dipole interaction between few cold atoms](#), **Antoine Browaeys**, Colloquium université de Bonn (Allemagne), Dec. 2012
- S3. [Quantum information with atoms and photons](#), **Philippe Grangier**, Séminaire à l'Ecole Normale Supérieure de Lyon, Dec. 2012
- S4. [Faire de la physique quantique avec quelques atomes](#), **Antoine Browaeys**, Seminaire departement de physique ENS Cachan, Dec. 2012
- S5. [Entangling Neutral Atoms using the Rydberg Blockade](#), **Thierry Lahaye**, Seminaire, LPS Orsay, France, Nov. 2012

- S6. [Quantum information with atoms and photons](#), **Philippe Grangier**, Séminaire à l'Université de Buenos Aires, Nov. 2012
- S7. [Information quantique avec des atomes \(froids\)](#), **Antoine Browaeys**, Inauguration du DIM Cnano-Idf, NanoK. Université Paris 7, Feb. 2012
- S8. [Few atoms in an optical tweezer](#), **Antoine Browaeys**, Séminaire, groupe atomes froids LKB, ENS ULM, Paris, Dec. 2011.
- S9. [Méthode de caractérisation de portes quantiques agissant sur les états cohérents](#), **Rémi Blandino**, Séminaire, Institut d'Optique Graduate School, Palaiseau, Oct. 2011
- S10. [Exploiter la réalité quantique](#), **Rosa Tualle-Brouri**, Séminaire dans le cadre des journées des 40 ans de l'IUT d'Orsay, Jun. 2011.
- S11. [Entanglement of two atoms using the Rydberg blockade](#), **Antoine Browaeys**, Séminaire, INLN, Sophia Antipolis, Mar. 2011
- S12. [Refroidissement d'un atome individuel par rétroaction sur des photons uniques](#), **Alexei Ourjoumtsev**, Séminaire au Collège de France, en lien avec le cours de physique quantique de Serge Haroche, Feb. 2011
- S13. [Entanglement of two individual atoms using the Rydberg blockade](#), **Antoine Browaeys**, Bangalore (India), Raman Research Institute, Janvier 2010
- S14. [Entanglement of two individual atoms using the Rydberg blockade](#), **Antoine Browaeys**, MUARC, Nottingham (UK), avril 2010
- S15. [Entanglement of two individual atoms using the Rydberg blockade](#), **Antoine Browaeys**, ETH, Zurich, avril 2010
- S16. [Entanglement of two individual atoms using the Rydberg blockade](#), **Antoine Browaeys**, Kaiserslautern (Allemagne), juin 2010
- S17. [Few atoms in an optical tweezer](#), **Antoine Browaeys**, Durham (UK), août 2010
- S18. [Information quantique & photons uniques](#), **Gaétan Messin**, Institut Fresnel, Marseille, 22 janvier 2010
- S19. [Intrication de deux atomes par blocage de Rydberg](#), **Antoine Browaeys**, LCAR, Toulouse, France, mars 2010
- S20. [Le déterminisme en physique quantique](#), **Antoine Browaeys**, Conférence Assoscience, Toulouse, 5 novembre 2010
- S21. [Pulsed and CW squeezing with Rb vapor](#), **Gaétan Messin**, Institute of Opto-Electronics, Shanxi University, Taiyuan, Chine, 2 août 2010
- S22. [Single photon sources and quantum information](#), **Gaétan Messin**, Physics department of Peking University, Pékin, Chine, 29 octobre 2010
- S23. [Single photon sources and quantum information](#), **Gaétan Messin**, Physics department of Tsinghua University, Pékin, Chine, 1er novembre 2010
- S24. [A scanner darkly : weak measurements and their role in quantum communication](#), **Marco Barbieri**, Paris, Telecom-ParisTech, October 8th, 2009
- S25. [Deterministic generation of entanglement between two individual atoms using the Rydberg blockade](#), **Tatjana Wilk**, Castelldefels (Spain), Institut de Ciències Fotòniques (ICFO) 23 juin 2009
- S26. [Entanglement of two atoms using the Rydberg Blockade](#), **Antoine Browaeys**, Université de Durham, Avril 2009
- S27. [Entanglement of two individual neutral atoms using Rydberg blockade](#), **Tatjana Wilk**, 2009. Innsbruck Österreich, Institut für Quantenoptik und Quanteninformation (IQOQI), 11 janvier (2009)
- S28. [Entanglement of two individual neutral atoms using the Rydberg blockade](#), **Tatjana Wilk**, Austria, Universität Wien 15 octobre 2009
- S29. [Excitation of two atoms in the Rydberg Blockade régime](#), **Antoine Browaeys**, Université de Mainz, Janvier 2009
- S30. [Faire de la physique quantique avec un seul atome](#), **Antoine Browaeys**, Université Paris-sud, Orsay, 30 novembre 2009
- S31. [Introduction to quantum communications](#), **Gaétan Messin**, Pékin, Chine, Institute of Quantum Electronics of Peking University, 5 novembre 2009
- S32. [Manipulation de l'état quantique d'atomes individuels dans des pinces optiques](#), **Antoine Browaeys**, Université de Bordeaux, Centre de Physique Moléculaire Optique et Hertzienne (CPMOH) Mai 2009
- S33. [Un coup de dé : la mesure comme outil pour l'information quantique](#), **Marco Barbieri**, Laboratoire de physique de la matière condensée, Nice, 7 décembre 2009
- S34. [Qubit pour le calcul quantique](#), **Antoine Browaeys**, Conférence grand public, OMNT, Grenoble, Oct. 2008
- S35. [Two-dimensional transport and transfer of individual atomic qubits in optical tweezers](#), **Philippe Grangier**, CUA Seminar MIT Cambridge USA, Apr. 2008.

- S36. [Des photons intriqués à l'information quantique](#), **Philippe Grangier**, Séminaire au Collège de la Cité des Sciences, Auditorium, Cycle "Lumière : onde, photons, quanta", Mar. 2008
- S37. [Chatons de Schrödinger et états non gaussiens de la lumière: de nouveaux outils pour les communications quantiques](#), **Philippe Grangier**, Séminaire du Collège de France, 11 février 2008
- S38. [Excitation of two atoms in the Rydberg Blockade regime](#), **Antoine Browaeys**, Allemagne, Université d'Heidelberg Octobre 2008
- S39. [Faire de la physique quantique avec un seul atome](#), **Antoine Browaeys**, ENS Lyon, 9 janvier 2008
- S40. [La lumière : des photons intriqués à l'information quantique](#), **Philippe Grangier**, Conférence à la Cité des Sciences de la Villette, Paris, 20 mars 2008
- S41. [Single atoms in optical tweezers for quantum computing](#), **Antoine Browaeys**, Séminaire Département de Physique université d'Oxford, 4 février 2008
- S42. [Single photon sources for quantum information](#), **Alpha Gaëtan**, Séminaire Paris, société Capital Fund Managment, Septembre 2008
- S43. [Single photon sources for quantum information](#), **Alpha Gaëtan**, Milton Keynes, UK, Department of Science, Open University, Novembre 2008
- S44. [Two-dimensional transport and transfer of individual atomic qubits in optical tweezers](#), **Philippe Grangier**, University of Princeton, USA, Physics Colloquium, 17 avril 2008

REPUTATION AND ACADEMIC ATTRACTIVITY

PRIZES AND AWARDS

Antoine Browaeys,

- lauréat ERC Starting Grant (2009)

Ph. Grangier,

- Charles Hard Townes Award of the Optical Society of America (2012)
- Fellow, Optical Society of America (2012)
- Philippe Grangier, lauréat Advanced ERC Grant (2010)
- Fellow, European Physical Society (2008)
- grand Prix Jean Richard de la Société française de Physique (2008)

A. Ourjoumtsev,

- Prix de thèse C'Nano (2009)
- Prix de thèse, European physical Society (2009)
- Prix de thèse ParisTech (2008)

Rosa Tualle-Broui,

- membre junior de l'Institut Universitaire de France

INTERACTIONS WITH SOCIAL, ECONOMIC AND CULTURAL ENVIRONMENT

SERVICE TO THE SCIENTIFIC COMMUNITY AT LARGE

Antoine Browaeys,

- co-responsable du thème "cohérence et intrication quantiques" du Réseau Thématique de Recherche Avancée "Triangle de la Physique"

P. Grangier,

- Président du Département de Physique de l'Ecole Polytechnique (2009 à 2013)
- co-chair, 12th International Conference on Atomic Physics (ICAP 2012)

Rosa Tualle-Broui,

- Membre du conseil scientifique de l'université Paris XI , membre collègue B (2008 à 2016)
- Expert pour le FNRS (Fonds national de la recherche scientifique, organisme de financement Belge) (2010 à 2013)
- Membre du bureau du thème «Emergence » du Labex PALM (2011 à 2013)

PATENT

- B1. Procédé de distribution quantique de clés à variables continues, **P. Grangier, A Leverrier**, dépôt FR20080003937 du 10 juillet 2008, publication FR2933833, extension EP2297896, WO2010/003998

NANOPHOTONICS AND
ELECTROMAGNETISM

NANOPHOTONIQUE ET
ELECTROMAGNÉTISME (NAPHEL)

SUMMARY FOR THE NAPHEL GROUP

The reporting period is 1st January 2008 – 30th June 2013. This table summarizes the current (30th June 2013) and cumulative (1st January 2008 – 30th June 2013) data.

Faculty, research faculty (current)	5		
Non-permanent research scientists (cumul.)	18	Doctoral students (current)	5
Research interns (> 3 months, cumulative)	X	Peer reviewed journal articles (cumulative)	138
Conference presentations (cumulative)	171	Seminars (cumulative)	39
of which invited conf. presentations (cumul.)	82	Doctoral theses and habilitations defended (cumul.)	9
Patents applications filed (cumulative)	9	Book chapters (cumulative)	6

SCIENTIFIC PUBLICATIONS

(*) Stars indicate publications common to several groups of LCF or to LCF and another laboratory of Institut d'Optique (LP2N in Bordeaux from January 2011, Laboratoire Hubert Curien in Saint-Etienne). They are listed several times as appropriate.

ARTICLES IN INTERNATIONAL PEER-REVIEWED JOURNALS

- A1. [Theory of the spontaneous optical emission of nanosize photonic and plasmon resonators](#), **Christophe Sauvan; Jean-Paul Hugonin; Ivan Maksymov; Philippe Lalanne**, *Physical Review Letters*, 2013, 110, pp. 237401
- A2. [Atomic-plane-thick reconstruction across the interface during heteroepitaxial bonding of InP-clad quantum wells on Silicon](#), Anne Talneau; C. Roblin; A. Itawi; Olivia Mauguin; Ludovic Largeau; G. Beaudoin; Isabelle Sagnes; Gilles Patriarche; **Chengxin Pang; Henri Benisty**, *Applied Physics Letters*, 2013, 102, pp. 212101
- A3. [Mastered dispersion of material resonators: Broad corrugated waveguides working under the Littrow regime](#), **Henri Benisty; Nikolay Piskunov**, *Applied Physics Letters*, 2013, 102, pp. 151107
- A4. [Super-Planckian Near-Field Thermal Emission with Phonon-Polaritonic Hyperbolic Metamaterials](#), Svend-Age Biehs; Maria Tschikin; **Riccardo Messina; Philippe Ben-Abdallah**, *Applied Physics Letters*, 2013, 102, pp. 131106
- A5. [Graphene-based photovoltaic cells for near-field thermal energy conversion](#), **Riccardo Messina; Philippe Ben-Abdallah**, *Scientific Reports*, 2013, 3, pp. 1383
- A6. [Tuning the electromagnetic local density of states in graphene-covered systems via strong coupling with graphene plasmons](#), **Riccardo Messina; Jean-Paul Hugonin; Jean-Jacques Greffet; François Marquier**; Yannick De Wilde; Ali Belarouci; Luc Frechette; Y. Cordier; **Philippe Ben-Abdallah**, *Physical Review B (Condensed Matter)*, 2013, 87, pp. 085421
- A7. [Nanostructured silicon geometries for directly bonded hybrid III-V-silicon active devices](#), Chengxin Pang; Henri Benisty, *Photonics and Nanostructures - Fundamentals and Applications*, 2013, 11, pp. 145
- A8. [Broadband and efficient diffraction](#), **Céline Ribot**; Mane-Si Laure Lee; Stéphane Collin; Shailendra Bansropun; Patrick Plouhinec; Didier Thenot; Simone Cassette; Brigitte Loiseaux; **Philippe Lalanne**, *Advanced Optical Materials*, 2013, 1, pp. 489-493
- A9. * [Broadband enhancement and inhibition of single quantum dot emission in plasmonic nano-cavities operating at telecommunications wavelengths](#), David Elvira; Remy Braive; Grégoire Beaudoin; Isabelle Sagnes; **Jean-Paul Hugonin**; Izo Abram; Isabelle Robert-Philip; **Philippe Lalanne**; Alexios Beveratos, *Applied Physics Letters*, 2013, 103, pp. 061113
- A10. [Controlling Spontaneous Emission with Plasmonic Optical Patch Antennas](#), Cherif Belacel; **Benjamin Habert; Florian Bigourdan; François Marquier; Jean-Paul Hugonin**; S. Michaelis De Vasconcelos; Xavier Lafosse; Laurent Coolen; Catherine Schwob; Clémentine Javaux; Benoit Dubertret; **Jean-Jacques Greffet**; Pascale Senellart; Agnès Maître, *Nano Letters*, 2013, 13, pp. 1516
- A11. [Electrical modulation of emissivity](#), **Simon Vassant; Ioana Cristina Moldovan Doyen; François Marquier**; F. Pardo; Ulf Gennser; Antonella Cavanna; Jean-Luc Pelouard; **Jean-Jacques Greffet**, *Applied Physics Letters*, 2013, 102, pp. 081125
- A12. [Using radiative transfer equation to model absorption by thin Cu\(In,Ga\)Se₂ solar cells with Lambertian back reflector](#), **Nir Dahan**; Zacharie Jehl; Jean Francois Guillemoles; Daniel Lincot; N. Naghavi; **Jean-Jacques Greffet**, *Optics Express*, 2013, 21, pp. 2563
- A13. [Three-Body Amplification of Photon Heat Tunneling Supplementary Material](#), Riccardo Messina; Mauro Antezza; **Philippe Ben-Abdallah**, *Physical Review Letters*, 2012, 109 (244302), pp. 244302

- A14. [Epsilon-Near-Zero Mode for Active Optoelectronic Devices](#), **Simon Vassant; Alexandre Archambault; François Marquier**; Fabrice Pardo; Ulf Gennser; Antonella Cavanna; Jean-Luc Pelouard; **Jean-Jacques Greffet**, *Physical Review Letters*, 2012, 109 (23), pp. 237401
- A15. [Photonic crystal light-emitting sources](#), **Henri Benisty**; Claude Weisbuch; Aurélien David, *Reports on Progress in Physics*, 2012, 75 (12), pp. 126501
- A16. [Berreman mode and epsilon near zero mode](#), **Simon Vassant; Jean-Paul Hugonin; François Marquier; Jean-Jacques Greffet**, *Optics Express*, 2012, 20 (21), pp. 23971
- A17. [Coherent thermal conductance in multilayer photonic crystals](#), Maria Tschikin; **Philippe Ben-Abdallah**; Svend-Age Biehs, *Physics Letters A*, 2012, 376 (45), pp. 3462-3465
- A18. [Resonant waveguide sensing made robust by on-chip peak tracking through image correlation](#), Kristelle Bougot-Robin; Wen Weija; **Henri Benisty**, *Biomedical optics express*, 2012, 3 (10), pp. 2436
- A19. [Hyperbolic Metamaterials as an Analog of a Blackbody in the Near Field](#), Svend-Age Biehs; Maria Tschikin; **Philippe Ben-Abdallah**, *Physical Review Letters*, 2012, 109, pp. 104301
- A20. [Radiative heat transfer between two dielectric nanogratings in the scattering approach](#), J. Lussange; R. Guérout; **Felipe S. S. Rosa; Jean-Jacques Greffet**; A. Lambrecht; S. Reynaud, *Physical Review B*, 2012, 86, pp. 085432
- A21. ["Peak tracking chip" for label-free optical detection of bio-molecular interaction and bulk sensing](#), Kristelle Bougot-Robin; Li Shunbo; Zhang Yinghua; I-Ming Hsing; **Henri Benisty**; Wen Weija, *The Analyst*, 2012, 137 (20), pp. 4785
- A22. [Coherent thermal infrared emission by two-dimensional silicon carbide gratings](#), Christophe Arnold; **François Marquier**; Moises Garin; Fabrice Pardo; Stéphane Collin; Nathalie Bardou; Jean-Luc Pelouard; **Jean-Jacques Greffet**, *Physical Review B (Condensed Matter)*, 2012, 86 (3), pp. 035316
- A23. * [Ultrasmall metal-insulator-metal nanoresonators: impact of slow-wave effects on the quality factor](#), **Jianji Yang; Christophe Sauvan; Anthony Jouanin**; Stéphane Collin; Jean-Luc Pelouard; **Philippe Lalanne**, *Optics Express*, 2012, 20 (15), pp. 16880-16891
- A24. [Radiative cooling of nanoparticles close to a surface](#), Maria Tschikin; Svend-Age Biehs; **F.S. S. Rosa; Philippe Ben-Abdallah**, *European Physical Journal B*, 2012, 85, pp. 233
- A25. [Healing Near-PT-Symmetric Structures to Restore Their Characteristic Singularities: Analysis and Examples](#), **Henri Benisty; Chen Yan**; Aloyse Degiron; Anatole Lupu, *Journal of Lightwave Technology*, 2012, 30 (16), pp. 2675
- A26. [Size-dependent infrared properties of MgO nanoparticles with evidence of screening effect](#), Y. Chalopin; H. Dammak; M. Hayoun; **Mondher Besbes; Jean-Jacques Greffet**, *Applied Physics Letters*, 2012, 100, pp. 241904
- A27. [Enhanced radiative heat transfer between nanostructured gold plates](#), R. Guérout; J. Lussange; F. S. S. Rosa; Jean-Paul Hugonin; D. A. R. Dalvit; Jean-Jacques Greffet; A. Lambrecht; S. Reynaud, *Physical Review B*, 2012, 85, pp. 180301(R)
- A28. [Confinement and optical properties of the plasmonic inverse-rib waveguide](#), **Henri Benisty; Mondher Besbes**, *Journal of the Optical Society of America B*, 2012, 29 (4), pp. 818-826
- A29. [Asymptotic expressions describing radiative heat transfer between polar materials from the far-field regime to the nanoscale regime](#), Emmanuel Rousseau; **Marine Laroche; Jean-Jacques Greffet**, *Journal of Applied Physics*, 2012, 111, pp. 014311
- A30. [Blackbody spectrum revisited in the near field](#), Arthur Babuty; Karl Joulain; Pierre-Olivier Chapuis; **Jean-Jacques Greffet**; Yannick De Wilde, *Physical Review Letters*, 2012, 110, pp. 146103
- A31. * [Dark-Field hyperlens exploiting a planar fan of tips](#), **Henri Benisty; François Goudail**, *Journal of the Optical Society of America B*, 2012, 29 (9), pp. 2595-2602
- A32. [Enhanced scattering and absorption due to the presence of a particle close to an interface](#), **Nir Dahan; Jean-Jacques Greffet**, *Optics Express*, 2012, 20, pp. A530
- A33. [Experimental study of hot spots in gold/glass nanocomposites films by photoemission electron microscopy](#), Chawki Awada; **Grégory Barbillon**; Fabrice Charra; Ludovic Douillard; **Jean-Jacques Greffet**, *Physical Review B (Condensed Matter)*, 2012, 85, pp. 045438
- A34. [Hot Carrier Solar Cells: Controlling Thermalization in Ultrathin Devices](#), Arthur Le bris; J. Rodière; Clément Colin; Stéphane Collin; Jean-Luc Pelouard; Ruben Esteban; **Marine Laroche; Jean-Jacques Greffet**; Jean-François Guillemoles, *IEEE Journal of Photovoltaics*, 2012, 2, pp. 506
- A35. [Influence of a depletion layer on localized surface waves in doped semiconductor nanostructures](#), **Simon Vassant**; Fabrice Pardo; Patrick Bouchon; Riad Haïdar; **François Marquier; Jean-Jacques Greffet**; Jean-Luc Pelouard, *Applied Physics Letters*, 2012, 100, pp. 091103
- A36. [Integral equation modelling of doubly periodic structures with an efficient PMCHWT formulation](#), Samuel Nosal; Paul Soudais; **Jean-Jacques Greffet**, *IEEE Transactions on Antennas and Propagation*, 2012, 60, pp. 292

- A37. [Mo/Cu\(In,Ga\)Se-2 back interface chemical and optical properties for ultrathin CIGSe solar cells](#), F. Erfurth; Zacharie Jehl; M. Bouttemy; **Nir Dahan**; P. Tran-Van; I. Gerard; Arnaud Etcheberry; **Jean-Jacques Greffet**; M. Powalla; G. Voorwinden; Daniel Lincot; Jean Francois Guillemoles; N. Naghavi, *Applied Surface Science*, 2012, 258, pp. 3058
- A38. [Optical approaches to improve the photocurrent generation in Cu\(In,Ga\)Se₂ solar cells with absorber thicknesses down to 0.5μm](#), **Nir Dahan**; Zacharie Jehl; Thomas Hildebrandt; **Jean-Jacques Greffet**; Jean Francois Guillemoles; Daniel Lincot; N. Naghavi, *Journal of Applied Physics*, 2012, 112, pp. 094902
- A39. * [Plasmon switching: observation of dynamic surface plasmon steering by selective mode excitation in a subwavelength slit](#), S. B. Raghunathan; **Choon How Gan**; T. Van Dijk; Buntha Ea-Kim; H. F. Schouten; W. Ubachs; **Philippe Lalanne**; T. D. Visser, *Optics Express*, 2012, 20 (14), pp. 15326-15335
- A40. * [Proposal for compact solid-state III-V single plasmon sources](#), **Choon How Gan**; **Jean-Paul Hugonin**; **Philippe Lalanne**, *Physical Review X*, 2012, 2 (2), pp. 021008
- A41. [Superlens in the time domain](#), **Alexandre Archambault**; **Mondher Besbes**; **Jean-Jacques Greffet**, *Physical Review Letters*, 2012, 109, pp. 097405
- A42. [Crossing of manifolds leads to flat dispersion: Blazed Littrow waveguides](#), **Henri Benisty**; **Nikolay Piskunov**; P.N. Kashkarov; **Omer Khayam**, *Physical Review A*, 2011, 84 (6), pp. 063825
- A43. [Phonon-Polaritons enhance near field thermal transfer across the phase transition of VO₂](#), Pieter Van Zwol; Karl Joulain; **Philippe Ben-Abdallah**; Joel Chevrier, *Physical Review B*, 2011, 84 (16), pp. 161413
- A44. * [Attenuation Coefficient of Single-Mode Periodic Waveguides](#), **Alexandre Baron**; **Simon Mazoyer**; **Wojciech Śmigaj**; **Philippe Lalanne**, *Physical Review Letters*, 2011, 107 (15), pp. 153901
- A45. * [Slow pulses in disordered photonic-crystal waveguides](#), **Alexandre Baron**; **Simon Mazoyer**; **Jean-Paul Hugonin**; **Philippe Lalanne**; Andrea Melloni, *Applied Optics*, 2011, 50 (31), pp. G113
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- CO13. [N-body theory of heat-transport in complex plasmonic systems](#), **Philippe Ben-Abdallah**; Svend-Age Biehs; **Jean-Jacques Greffet**; K. Joulain, *3rd International Conference on Metamaterials, Photonic Crystals and Plasmonics (Meta'12)*, Apr 2012, Paris, France.
- CO14. * [Purcell factor of plasmonic nanoantennas](#), **Christophe Sauvan**; **Jean-Paul Hugonin**; **Philippe Lalanne**, *3rd International Conference on Metamaterials, Photonic Crystals and Plasmonics (Meta'12)*, Apr 2012, Paris, France.
- CO15. [Radiative heat-transfer in complex plasmonic systems at mesoscopic scale](#), **Philippe Ben-Abdallah**; Svend-Age Biehs; Karl Joulain, *Nanoscale heat transfer, ASME conf, Atlanta*, Mar 2012, United States.

- CO16. * [Bloch modes of optical fishnet metamaterials: a "microscopic" model](#), **Jianji Yang; Christophe Sauvan**; Haitao Liu; **Philippe Lalanne**, *5th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics (Metamaterials'2011)*, Oct 2011, Barcelone, Spain.
- CO17. [Treating the scattering problem at an interface between two metamaterials](#), **Philippe Lalanne**; Wojciech Śmigaj; Jianji Yang; T. Paul; C. Rockstuhl; F. Lederer, *5th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics (Metamaterials'2011)*, Oct 2011, Barcelone, Spain.
- CO18. [N-body theory of near-field heat transport](#), **Philippe Ben-Abdallah**; Svend-Age Biehs; Karl Joulain, *Eurotherm : Microscale Heat Transfer*, Aug 2011, France.
- CO19. [Nanoscale radiative heat flux between anisotropic media](#), **Svend-Age Biehs; Philippe Ben-Abdallah; F. S. S. Rosa; Jean-Jacques Greffet**, *Eurotherm : Microscale Heat Transfer*, Aug 2011, France.
- CO20. [Plasmonic inverse-rib waveguides for large scale photonic integration](#), **Henri Benisty; Mondher Besbes**, *Photonics North*, May 2011, Ottawa, Canada.
- CO21. [Bloch modes of optical fishnets](#), **Jianji Yang; Christophe Sauvan**; Haitao Liu; **Philippe Lalanne**, *Surface Plasmon Polariton SPP5*, May 2011, Busan, Korea, Republic Of.
- CO22. [Quasi-cylindrical waves at the interface of a semiconductor device](#), **Choon How Gan; Philippe Lalanne**; Loïc Lalouat; Lionel Aigouy, *Nanometa 2011*, Jan 2011, Seefeld, Austria.
- CO23. [An intuitive model of light scattering by subwavelength metallic surfaces](#), **Haitao Liu; Philippe Lalanne**, *EOS Annual Meeting*, Oct 2010, Paris, France.
- CO24. [Impedance of a nanoantenna](#), **François Marquier; Marine Laroche; Jean-Jacques Greffet**, *EOS Annual Meeting*, Oct 2010, Paris, France.
- CO25. [Microscopic theory of negative refraction in a fishnet](#), **Jianji Yang; Christophe Sauvan**; Stéphane Collin; **Philippe Lalanne**, *EOS Annual Meeting*, Oct 2010, Paris, France.
- CO26. [Optical nanoantennas for high-efficient ultra-thin solar cells](#), Stéphane Collin; Clément Colin; **Christophe Sauvan**; I. Massiot; Fabrice Pardo; Nicolas Péré-Laperne; P. Ghenuche; Nathalie Bardou; **Philippe Lalanne**; Jean-Luc Pelouard, *EOS Annual Meeting*, Oct 2010, Paris, France.
- CO27. [Sharp resonance of multimode periodic waveguide open resonator defined in SOI](#), **Nikolay Piskunov; Henri Benisty; Omer Khayam**, *EOS Annual Meeting 2010*, Oct 2010, Paris, France.
- CO28. [Beam steering from a bi-mode nanoslit](#), **Choon How Gan; Philippe Lalanne; Jean-Paul Hugonin**, *Fourth International Congress on Advanced Electromagnetic Materials in Microwaves and Optics (Metamaterials'2010)*, Sep 2010, Karlsruhe, Germany.
- CO29. [Single interface between a bulk metamaterial and a homogeneous half space](#), Jianji Yang; **Christophe Sauvan; Philippe Lalanne**; T. Paul; C. Rockstuhl; F. Lederer, *Fourth International Congress on Advanced Electromagnetic Materials in Microwaves and Optics (Metamaterials'2010)*, Sep 2010, Karlsruhe, Germany.
- CO30. [High-efficient ultra-thin solar cells](#), Stéphane Collin; **Christophe Sauvan**; C. Colin; I. Massiot; Fabrice Pardo; Nathalie Bardou; **Philippe Lalanne**; Jean-Luc Pelouard, *25th European Photovoltaic Solar Energy Conference*, Sep 2010, Valencia, Spain.
- CO31. [Hot carrier solar cells : in the making ?](#), A. Le Bris; L. Lombez; Jean Francois Guillemoles; **Ruben Esteban; Marine Laroche; Jean-Jacques Greffet**; G. Boissier; P. Christol; S. Collin; JI. Pelouard; P. Aschehoug; F. Pellé, *25th European Photovoltaic Solar Energy Conference and Exhibition / 5th World Conference on Photovoltaic Energy Conversion*, Sep 2010, Valencia, Spain.
- CO32. [Littrow resonators and the critical coupling concept](#), **Henri Benisty; Omer Khayam**, *12th International Conference on Transparent Optical Networks (ICTON)*, Jun 2010, Munich, Germany.
- CO33. [Plasmonic resonators as optical antenna for single photon sources](#), **François Marquier; Emmanuel Rousseau; Simon Vassant; Alexandre Archambault; Ruben Esteban; Tatiana Teperik; Jean-Jacques Greffet**, *Gordon Conference on Plasmonics*, Jun 2010, Waterville, United States.
- CO34. [Dark modes: a periodic multimode waveguide perspective](#), **Henri Benisty; Omer Khayam**, *Advances in Molecular Nonlinear Optics : Information Technology and Life Sciences, AMARIS'10*, May 2010, Cachan, ENS, France.
- CO35. [Slow light transport in disordered photonic-crystal waveguides](#), **Simon Mazoyer; Jean-Paul Hugonin; Philippe Lalanne**, *Slow Waves in Photonics*, Mar 2010, Milan, Italy.
- CO36. [Measurement of radiative heat transfer due to evanescent waves](#), **Emmanuel Rousseau**; Alessandro Siria; Guillaume Jourdan; S. Volz; Fabio Comin; Joël Chevrier; **Jean-Jacques Greffet**, *Micro and Nanoscale Heat and Mass Transfer International Conference*, Dec 2009, Shanghai, China.
- CO37. [Radiative heat transfer between two spheres and the Derjaguin approximation](#), **Emmanuel Rousseau**; S. Volz; **Jean-Jacques Greffet**, *Micro and Nanoscale Heat and Mass Transfer International Conference*, Dec 2009, Shanghai, China.

- CO38. [DOS Modulation and Slow Light in Broad Photonic Crystal Waveguides](#), **Omer Khayam; Henri Benisty**, *First International Workshop on Theoretical and Computational Nanophotonics*, Dec 2009, Bad Honnef, Germany.
- CO39. [A highly efficient monomode single photon source in the photonic wire geometry](#), Julien Claudon; J. Bleuse; M. Bazin; N.S. Malik; P. Jaffrennou; Jean-Michel Gérard; **Christophe Sauvan; Jean-Paul Hugonin; Philippe Lalanne**; N. Gregersen; J. Mork, *Optics of Excitons in Confined Systems (OECS11)*, Sep 2009, Madrid, Spain.
- CO40. [Electromagnetic energy stored in the near field of a nanoantenna](#), **Marine Laroche; Jean-Jacques Greffet**, *Fourth International Conference on Surface Plasmon Photonics (SPP4)*, Jun 2009, Amsterdam, Netherlands.
- CO41. [General surface plasmons representations and their link with different dispersion relations](#), **Alexandre Archambault; Tatiana Teperik; François Marquier; Jean-Jacques Greffet**, *Fourth International Conference on Surface Plasmon Photonics (SPP4)*, Jun 2009, Amsterdam, Netherlands.
- CO42. [Huygens-Fresnel principle for surface plasmons](#), **Tatiana Teperik; Alexandre Archambault; François Marquier; Jean-Jacques Greffet**, *Fourth International Conference on Surface Plasmon Photonics (SPP4)*, Jun 2009, Amsterdam, Netherlands.
- CO43. [Surface plasmon field enhancement on metallic gratings](#), **Bing Wang; Philippe Lalanne**, *Fourth International Conference on Surface Plasmon Photonics (SPP4)*, Jun 2009, Amsterdam, Netherlands.
- CO44. [What is the nanoantenna impedance ?](#), **Jean-Jacques Greffet; Marine Laroche; François Marquier**, *Fourth International Conference on Surface Plasmon Photonics (SPP4)*, Jun 2009, Amsterdam, Netherlands.
- CO45. [Disorder-induced multiple scattering in photonic-crystal waveguides](#), **Simon Mazoyer; Jean-Paul Hugonin; Philippe Lalanne**, *CLEO/Europe-EQEC 2009*, Jun 2009, Munich, Germany.
- CO46. [Contact imaging of fluorescence : a privileged path toward compact and sensitive arrayed multiplex biosensors](#), **Henri Benisty**; L. Martinelli; Mélanie Bedu; Aurélie Mazille; G. Cerovic; C. Weisbuch, *NanoEngineering and BioPhotonics (NEBO'09)*, Mar 2009, Cachan, ENS, France.
- CO47. [Imagerie de bio-puces multiplexes dans l'ultraviolet pour l'identification de menaces biologiques](#), **Kristelle Robin**; Jean-Luc Reverchon; L. Mugheri; M. Fromant; **Henri Benisty**, *Workshop interdisciplinaire de la sécurité globale*, Jan 2009, Troyes, France.
- CO48. [Modélisation des pertes introduites par le désordre dans un guide à cristal photonique](#), **Simon Mazoyer; Jean-Paul Hugonin; Philippe Lalanne**, *GDR Ondes*, Dec 2008, Lyon, France.
- CO49. [Optical resonances in dielectric nanoparticle arrays](#), **Marine Laroche**; Silvia Albaladejo; Remi Carminati; Juan-José Saenz, *First International Workshop on Theoretical and Computational Nanophotonics*, Dec 2008, Bad Honnef, Germany.
- CO50. [Solid-state single photon sources: the nanowire antenna](#), **Christophe Sauvan; Inbal Friedler; Jean-Paul Hugonin; Philippe Lalanne**, *First International Workshop on Theoretical and Computational Nanophotonics (TaCoNa-Photonics)*, Dec 2008, Bad Honnef, Germany.
- CO51. [Analytical Model for Coupled Photonic Crystal Microcavities](#), **Christophe Sauvan; Simon Mazoyer; Jean-Paul Hugonin; Philippe Lalanne**; D. Peyrade, *EOS Topical Meeting on Nanophotonics, Photonic Crystals and Metamaterials*, Sep 2008, Paris, France.
- CO52. [Association of Finite Element and Fourier modal expansion for scattering analysis](#), **Mondher Besbes; Jean-Paul Hugonin; Philippe Lalanne**, *EOS Topical Meeting on Micro- and Nanoscale Photonic Systems*, Sep 2008, Paris, France.
- CO53. [Collision between electrons and surface waves: quantum approach](#), **François Marquier; Christophe Arnold; Alexandre Archambault; Jean-Jacques Greffet**, *EOS Topical Meeting on Nanophotonics, Photonic Crystals and Metamaterials*, Sep 2008, Paris, France.
- CO54. [Design of a novel high-efficiency single-mode single photon source](#), **Inbal Friedler; Philippe Lalanne; Jean-Paul Hugonin**; Julien Claudon; Jean-Michel Gérard; Isabelle Robert-Philip, *EOS Topical Meeting on Nanophotonics, Photonic Crystals and Metamaterials*, Sep 2008, Paris, France.
- CO55. [Enhanced absorption in nanostructured silicon](#), **Marine Laroche**; S. Bandiera; D. Jacob; T. Muller; **François Marquier; Jean-Jacques Greffet**, *EOS Topical Meeting on Nanophotonics, Photonic Crystals and Metamaterials*, Sep 2008, Paris, France.
- CO56. [Polarization conversion by a photonic crystal slab](#), **Marine Laroche; François Marquier; C. Vandenbem; Jean-Jacques Greffet**, *EOS Topical Meeting on Nanophotonics, Photonic Crystals and Metamaterials*, Sep 2008, Paris, France.
- CO57. [Surface waves on nanostructured metallic surfaces](#), Stéphane Collin; **Christophe Sauvan**; Cyrille Billaudeau; Fabrice Pardo; Jean-Luc Pelouard; **Philippe Lalanne**, *EOS Topical Meeting on Nanophotonics, Photonic Crystals and Metamaterials*, Sep 2008, Paris, France.

- CO58. [Up-conversion processes in the presence of metallic nanoparticles](#), **Ruben Esteban; Marine Laroche; Jean-Jacques Greffet**, *EOS Topical Meeting on Nanophotonics, Photonic Crystals and Metamaterials*, Sep 2008, Paris, France.
- CO59. [Compact integrated photonic crystal demultiplexer for emitting and receiving InP photonic integrated circuits](#), **Henri Benisty; Cyril Cambournac; Omer Khayam**; Melanie Ayre; Frederick Van Laere; Dries Van Thourhout; R. Baets; Tiziana Stomeo; T.F. Krauss; M. Kamp; H. Hoffman; Alfred Forchel; D.F.G. Gallagher, *European Conference on Integrated Optics (ECOC 2008)*, Sep 2008, Bruxelles, Belgium.
- CO60. [Influence of metallic nanoparticles on up-conversion processes](#), **Ruben Esteban; Marine Laroche; Jean-Jacques Greffet**, *10th International Conference on Near-Field Optics, Nanophotonics and Related Techniques (NFO 10)*, Sep 2008, Buenos Aires, Argentina.
- CO61. [Computational concepts for periodic optical waveguides: application to coupled photonic crystal microcavities](#), **Christophe Sauvan; Simon Mazoyer; Philippe Lalanne; Jean-Paul Hugonin**, *17th International Workshop on Optical Waveguide Theory and Numerical Modelling (OWTNM 08)*, Jun 2008, Eindhoven, Netherlands.
- CO62. [Successful fabrication and integration of multifunctional photonic-crystal devices on bonded InP membrane chip](#), Tiziana Stomeo; T.F. Krauss; Frederick Van Laere; Dries Van Thourhout; R. Baets; **Cyril Cambournac**; Melanie Ayre; **Henri Benisty**, *European Conference on Integrated Optics ECIO'08*, Jun 2008, Eindhoven, Netherlands.
- CO63. [Conception d'un coupleur dans un mode lent d'un cristal photonique et application à la mesure des pertes de propagation](#), **Simon Mazoyer; Jean-Paul Hugonin; Philippe Lalanne**; D.M. Beggs; T.F. Krauss, *GDR Ondes*, Jun 2008, Paris, France.
- CO64. [Design of a novel high- \$\eta\$ efficiency single-mode single photon source](#), Inbal Friedler; **Philippe Lalanne; Jean-Paul Hugonin**, *GDR Ondes*, Jun 2008, Paris, France.
- CO65. [Grating coupled photonic crystal demultiplexer with integrated detectors on InP membrane](#), Frédéric Van Laere; Tiziana Stomeo; Melanie Ayre; **Cyril Cambournac**; Romain Brenot; Dries Van Thourhout; **Henri Benisty**; T.F. Krauss; R. Baets, *Indium Phosphide and Related Materials Conference (IPRM)*, May 2008, Versailles, France.
- CO66. [Multifunctional photonic crystal compact demux-detector on InP](#), Frederick Van Laere; Dries Van Thourhout; R. Baets; Tiziana Stomeo; T.F. Krauss; Melanie Ayre; **Cyril Cambournac; Henri Benisty**, *Optical Fiber Conference (OFC)*, Feb 2008, San Diego, France.
- CO67. [The elementary interactions in the extraordinary optical transmission phenomenon](#), **Philippe Lalanne**; Haitao Liu, *Seventh International Workshop on Information Optics*, 2008, Bristol, United Kingdom.
- CO68. [Analytical Model for Coupled Photonic Crystal Microcavities](#), **Christophe Sauvan; Simon Mazoyer; Jean-Paul Hugonin; Philippe Lalanne**; D. Peyrade, *EOS European Optical Society Annual Meeting*, 2008, Paris, France.

DOCTORAL THESES

- T1. [Etude théorique de métamatériaux optiques de type fishnet](#), **Jianji Yang**, Université Paris Sud - Paris XI, Sep. 2012. English
- T2. [Optique des ondes de surface : super-résolution et interaction matière-rayonnement](#), **Alexandre Archambault**, Université Paris Sud - Paris XI, Dec. 2011. French
- T3. [Contrôle optique et électrique de réflectivité THz assisté par phonon-polaritons de surface](#), **Simon Vassant**, Université Paris Sud - Paris XI, Fev. 2011. French
- T4. [Lumière lente dans les guides à cristaux photoniques réels](#), **Simon Mazoyer**, Université Paris Sud - Paris XI, Jan. 2011. French
- T5. [Biopuces sans marquage : structuration pour la haute sensibilité pour l'imagerie dans l'ultraviolet](#), **Kristelle Robin-Bougot**, Université Paris Sud - Paris XI, Dec. 2009. French
- T6. [Dispositif à cristaux photoniques passifs et actifs pour le traitement du signal optique](#), **Omer Khayam**, Université Paris Sud - Paris XI, Nov. 2009. French
- T7. [Etude des transferts d'énergie \(thermique et radiative\) aux courtes-échelles](#), **Yann Chalopin**, Université Paris Sud - Paris XI, Oct. 2009. French
- T8. [Optiques diffractives pour une application en imagerie infrarouge](#), **Céline Millet Ribot**, Université Paris Sud - Paris XI, Oct. 2008. French
- T1. [Ingénierie de mode en optique intégrée sur silicium sur isolant](#), **Philippe Velha**, physique et nanophysique. Université Paris Sud - Paris XI, Feb. 2008. French

SEMINAR PRESENTATIONS

- S1. [Nano-antenne plasmonique pour l'émission de photons uniques](#), **Jean-Jacques Greffet**, Séminaire Télécom, Paris, Apr. 2013

- S2. [Taming blackbody radiation with Surface Waves](#), **Jean-Jacques Greffet**, Extreme light colloquium, Ottawa, Mar. 2013
- S3. [Superlens in time domain](#), **Jean-Jacques Greffet**, OSA student chapter Amsterdam, Jan. 2013
- S4. [Optics at the nanoscale with surface plasmons: superlens and nanoantennas for single photon emission](#), **Jean-Jacques Greffet**, Oct. 2012. Séminaire à l'EPFL
- S5. [Radiative heat transfer at the nanoscale](#), **Jean-Jacques Greffet**, Oct. 2012. Série de 5 cours effectués à l'Université de Jao Tong à Xian
- S6. [Validité de la notion de constante diélectrique pour des nanoparticules : propriétés optiques de nanoparticules de MgO](#), **Jean-Jacques Greffet**, Sep. 2012. Séminaire INSP
- S7. [Controlling spontaneous emission with surface waves](#), **Jean-Jacques Greffet**, May. 2012. Imperial College
- S8. [Controlling spontaneous emission with surface waves](#), **Jean-Jacques Greffet**, May. 2012. Colloquium Max Planck Institute for the Science of Light
- S9. [Les nanoantennes optiques pour le contrôle de l'émission spontanée](#), **Jean-Jacques Greffet**, Mar. 2012. Colloquium laboratoire Charles Coulomb, Montpellier
- S10. [Nanophotonique : Voir et manipuler la lumière à l'échelle du nanomètre](#), **Jean-Jacques Greffet**, Oct. 2011. Journée Union des Professeurs de Spéciales
- S11. [Radiative heat transfer at the nanoscale](#), **Jean-Jacques Greffet**, Oct. 2011. Séminaire de l'ONERA, Palaiseau
- S12. [Revisiting Blackbody radiation at the nanoscale](#), **Jean-Jacques Greffet**, Oct. 2011. Colloquium du JILA et de l'Université du Colorado, Boulder
- S13. [Nanoantennes : Contrôler l'émission et l'absorption de lumière à l'échelle du nanomètre](#), **Jean-Jacques Greffet**, May. 2011. Séminaire de l'ENS Cachan
- S14. [Plasmonic and dielectric antennas for single photon emission](#), **Jean-Jacques Greffet**, May. 2011. Université de Jena
- S15. [Rayonnement thermique à l'échelle du nanomètre](#), **Jean-Jacques Greffet**, Feb. 2011. Journée du club SOOS/SEE de la SFO, Palaiseau
- S16. [Transport dans les guides à cristaux photoniques](#), **Philippe Lalanne**, Jan. 2011. Institut Langevin, Paris, 13 Janvier 2011
- S17. [Contrôle de la densité d'états à l'aide d'ondes de surface : Application au transfert d'énergie en régime mésoscopique et à la conception de nanoantennes](#), **Jean-Jacques Greffet**, Jan. 2011. Séminaire du SPEC, Saclay
- S18. [Vers un laser à plasmons de surface](#), **Jean-Jacques Greffet**, 2011. J3N
- S19. [Tailoring local density of states with surface waves : application to nanoantennas, forces and enhanced radiative heat transfer](#), **Jean-Jacques Greffet**, Dec. 2010. Université de Twente, Pays Bas
- S20. [Nanophotonique, voir et manipuler la lumière à l'échelle du nanomètre](#), **Jean-Jacques Greffet**, Jun. 2010. Magistère d'Orsay
- S21. [Quantum molecular dynamics : surface phonon polaritons nanoparticles resonances in the THz regime](#), **Jean-Jacques Greffet**, Apr. 2010. DCSIC Donostia
- S22. [Quelques effets des ondes de surface : nanoantenne plasmonique et transfert radiatif exalté](#), **Jean-Jacques Greffet**, Feb. 2010. Université Claude Bernard
- S23. [Theory of the extraordinary optical transmission](#), **Philippe Lalanne**, Jan. 2010. UCSD, San Diego, United States
- S24. [Introduction to modal methods in nanophotonics](#), **Philippe Lalanne**, 2010. cours de 1h30 dans le cadre d'un séjour en tant que Carl Zeiss Visiting Professor, Abbe School of Photonics, Jena, Germany
- S25. [Surface waves on metallic sub-wavelength surfaces](#), **Philippe Lalanne**, 2010. cours de 1h30 dans le cadre d'un séjour en tant que Carl Zeiss Visiting Professor, Abbe School of Photonics, Jena, Germany
- S26. [The physics of the extraordinary optical transmission](#), **Philippe Lalanne**, 2010. cours de 1h30 dans le cadre d'un séjour en tant que Carl Zeiss Visiting Professor, Abbe School of Photonics, Jena, Germany
- S27. [Understanding nanophotonics devices with modal methods](#), **Philippe Lalanne**, 2010. cours de 1h30 dans le cadre d'un séjour en tant que Carl Zeiss Visiting Professor, Abbe School of Photonics, Jena, Germany
- S28. [Scattering of plasmons by subwavelength structures](#), **Philippe Lalanne**, Dec. 2009. Max Planck Institute, Stuttgart, Germany
- S29. [Nanophotonique, voir et manipuler la lumière à l'échelle du nanomètre](#), **Jean-Jacques Greffet**, Dec. 2009. OSA Student Chapter
- S30. [Nanosciences: pourquoi les lois enseignées au lycée ne sont plus valables à l'échelle du nanomètre ?](#), **Jean-Jacques Greffet**, Nov. 2009. EDUCATEC, Paris Porte de Versailles
- S31. [What is the nanoantenna impedance ?](#), **Jean-Jacques Greffet**, Oct. 2009. Université Paris Diderot

- S32. [Nanophotonique et champ proche](#), **Jean-Jacques Greffet**, May. 2009. Journée LUMAT
- S33. [Optique Diffractive Binaire](#), **Philippe Lalanne**, Feb. 2009. ONERA, Palaiseau, France
- S34. [Thermal radiation at the nanoscale](#), **Jean-Jacques Greffet**, Feb. 2009. Journée Casimir, Grenoble
- S35. [Surface waves in the extraordinary optical transmission](#), **Philippe Lalanne**, Jan. 2009. AMOLF, Amsterdam, Netherlands
- S36. [Transfert radiatif à l'échelle du nanomètre](#), **Jean-Jacques Greffet**, Jan. 2009. Séminaire général de l'ENS
- S37. [Radiative heat transfer at the nanoscale](#), **Jean-Jacques Greffet**, 2009. Université de Nantes
- S38. [Photonic crystal waveguides: lasing and spontaneous emission](#), **Omer Khayam**, 2008. IBM, Zürich, 25 avril 2008
- S39. [Tailoring the emission of atoms: what can nanowires do?](#), **Philippe Lalanne**, 2008. Cours de 1h30 à la Summer School on Semiconductor Nanowires, Roscoff, 15-20 juin 2008

REPUTATION AND ACADEMIC ATTRACTIVITY

PRIZES AND AWARDS

Jean-Jacques Greffet,

- iXCore Foundation fellow, 2008
- membre senior de l'Institut Universitaire de France

H.T. Liu,

- Gilles Kahn Award, Fondation franco-chinoise pour la Science (2008)

Philippe Lalanne,

- Fellow, SPIE (2010)
- Carl Zeiss visiting Professor, Abbe School of Photonics, Jena (2010)

O. Khayam,

- IBM PhD Fellowship award (2008)

INTERACTIONS WITH SOCIAL, ECONOMIC AND CULTURAL ENVIRONMENT

DISSEMINATION OF SCIENTIFIC INFORMATION

- M1. * [Negative refractive index of optical metamaterials](#), **Jianji Yang; Christophe Sauvan; Philippe Lalanne**, *Spie Newsroom*, 2011, pp. DOI 10.1117/2.1201104.003712
- M2. [Les plasmons et la transmission extraordinaire optique](#), **Philippe Lalanne**; Cyriaque Genet, *Images de la Physique*, 2010, pp. 45-50

SERVICE TO THE SCIENTIFIC COMMUNITY AT LARGE

Henri Benisty,

- Membre du comité de suivi de l'IAP « photonic@be » regroupant 5 équipes belges en photonique (2009)
- Membre extérieur du Comité de la recherche de Paristech Télécom (ex ENST) (2010 à 2013)
- Editor, "Photonic and Nanostructures, Fundamentals and Applications", Elsevier (IF 2)

Jean-Jacques Greffet,

- Membre du comité de pilotage (corédacteur du projet) du labex NanoSaclay (2011 à 2013)
- Membre du comité d'évaluation AERES de l'Institut Langevin (2012)
- Membre de comités d'évaluation AERES de l'Institut Néel (2010)
- Membre du comité éditorial de la revue *Waves in random and complex media* (2009)
- Membre du comité éditorial de la revue *Nanoscale and Microscale Thermophysical Engineering* (2009)
- Responsable du bureau de l'axe Nanophotonique et Information Quantique du Cnano IDF (2009)
- Organisateur du workshop Nanoantennas (Palaiseau, 16 janvier 2009) (2009)
- Membre du comité AERES du Laboratoire d'Optique Appliquée (LOA) (2008)

Philippe Lalanne,

- "Guest editor", *Applied Optics*, special issue "Plasmonics Diffractive Optics and Imaging" (2010)
- Membre du comité de sélection de l'ANR Blanc SIMI10 – Nanosciences (2010)

PATENTS

- B1. Source de rayonnement infrarouge directionnelle commutable, **P Ben-Abdallah; H Benisty; A-L Coutrot; M Besbes**, dépôt FR68393 de novembre 2012
- B2. Modulateur TeraHertz, **S. Vassant, F Pardo, F. Marquier, A. Archambault, J.J. Greffet, JL Pelouard**, dépôt FR20110051189 du 14 février 2011, publication FR2971594, extension WO2012110520
- B3. Structure nanométrique absorbante de type MIM asymétrique et méthode de réalisation d'une telle structure, S Collin, JL Pelouard, F Pardo, AM Haghiri-Gosnet, **P. Lalanne, C. Sauvan**, dépôt FR201000531345226 du 23 avril 2010, publication FR2959352, extensions EP2561550, WO2011131586
- B4. Cellule de détection terahertz, **Vassant S, Pardo F., Pellouard JL, Greffet JJ, Archambault A, Marquier F**, dépôt FR20110051195 du 14 février 2011, publication FR2971623, extension WO2012110522
- B5. dispositif de type biopuce, Bedu M, **Benisty H**, Gacoin T, Martinelli L, Sagarzazu G, Schafauer C, Weisbuch C, dépôt FR20100061349 du 29 décembre 2010, publication FR2970079, extension WO2012089987
- B6. Filtre spectral avec membrane structurée à l'échelle sub-longueur d'onde et méthode de fabrication d'un tel filtre, N Bardou, S Collin, R Haidar, **M Laroche**, JL Pelouard, G Vincent, dépôt FR20100055226 du 29 juin 2010, publication FR2961913, extensions EP2588899, WO2012000928
- B7. Système et équipement de détection optique de particules à éventail de découplage de l'information optique, procédé de fabrication correspondant, **H. Benisty**, dépôt FR20090000633 du 12 février 2009, publication FR 2942046, extensions EP 2396642; WO 2010092255, US201044485, JP2012517602
- B8. Source de photons résultants d'une recombinaison d'excitons localisés, Espiau de Lamaestre r, **Greffet JJ, Guillaumot B, Ruben E**, dépôt FR20090059007 du 15 décembre 2009, publication FR2953994, extensions EP2337094, US20110204323
- B9. Imageur multi-longueurs d'ondes séquentielles, **Benisty H**, Rattier M, Reymond G, Schafauer C, dépôt FR20080000498 du 30 janvier 2008, publication FR2926895

Production of the NaPhEl group

NONLINEAR MATERIALS AND
APPLICATIONS

MATÉRIAUX NON LINEAIRES ET
APPLICATIONS (MANOLIA)

SUMMARY FOR THE MANOLIA GROUP

The reporting period is 1st January 2008 – 30th June 2013. This table summarizes the current (30th June 2013) and cumulative (1st January 2008 – 30th June 2013) data.

Faculty, research faculty (current)	6		
Non-permanent research scientists (cumul)	8	Doctoral students (current)	2
Research interns (> 3 months, cumulative)	10	Peer reviewed journal articles (cumulative)	31
Conference presentations (cumulative)	74	Seminars (cumulative)	6
of which invited conf. presentations (cumul.)	7	Doctoral theses and habilitations defended (cumul.)	7
Patents applications filed (cumulative)	0	Book chapters (cumulative)	1

SCIENTIFIC PUBLICATIONS

(*) Stars indicate publications common to several groups of LCF or to LCF and another laboratory of Institut d'Optique (LP2N in Bordeaux from January 2011, Laboratoire Hubert Curien in Saint-Etienne). They are listed several times as appropriate.

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- CO31. [Fourier transformed picosecond OPO based on PPSLT without spectral filtering element](#), **Aleksandr Ryasnyanskiy; Nicolas Dubreuil; Philippe Delaye; Robert Frey; Gérald Roosen**, *EOS annual meeting*, Sep 2008, Paris, France.
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- CO35. [Electro-optic properties of \$Sr_x Ba_{1-x} Nb_2 O_6\$ \(SBN:x\) thin films](#), **Mireille Cuniot-Ponsard; Jean-Michel Desvignes**, *9th European Conference on Applications of Polar Dielectrics (ECAPD IX)*, Aug 2008, Rome, Italy.
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- CO40. [Investigation of polarizing mirrors at 121.6 nm](#), **Françoise Bridou; Mireille Cuniot-Ponsard; Jean-Michel Desvignes**, *First SMESE workshop*, Mar 2008, Orsay, France.
- CO41. [Diffusion Raman Stimulée en microcavités](#), **Felix Kroeger; Nicolas Dubreuil; Philippe Delaye; Robert Frey; Gérald Roosen**; Bernard Jusserand, *16ème colloque Bouyssi*, Feb 2008, Orsay, France.
- CO42. [Diffusion Raman Stimulée en microcavités](#), **Felix Kroeger; Nicolas Dubreuil; Philippe Delaye; Robert Frey; Gérald Roosen**; Bernard Jusserand, *Journée de conférences C'nano IdF*, Feb 2008, Chatenay-Malabry, France

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- HDR1. [Sources à diode laser auto-organisables - Nonlinearités dans des nanostructures semi-conductrices](#), **Nicolas Dubreuil**, Université Paris Sud - Paris XI, Jul. 2010. French

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- T1. [Diffusion Raman stimulée dans le champ évanescent de nanofibres](#), **Liye Shan**, Université Paris Sud - Paris XI, Dec. 2012. English
- T2. [Conception, validation et mise en oeuvre d'une architecture de stockage de données de très haute capacité basée sur le principe de la photographie Lippmann](#), **Kevin Contreras Villalobos**, Université Paris Sud - Paris XI, Feb. 2011. French
- T3. [Etude des formats de modulation et des méthodes de détection pour les transmissions multiplexées en longueurs d'ondes sur fibre optique au débit de 40Gb/s et 100Gb/s](#), **Gabriel Charlet**, Université Paris Sud - Paris XI, Feb. 2011. French
- T4. [Stimulated Raman Scattering in Semiconductor Nanostructures](#), **Felix Kroeger**, Université Paris Sud - Paris XI, Dec. 2010. English
- T5. [Optique Non-Linéaire dans les structures semi-conductrices à fort confinement du champ](#), **Alexandre Baron**, Université Paris Sud - Paris XI, Dec. 2010. French
- T6. [Exaltation des Non Linéarités du Troisième Ordre dans les Structures à Cristal Photonique](#), **Magali Astic**, Université Paris Sud - Paris XI, Dec. 2008. French

SEMINAR PRESENTATIONS

- S1. [Mémoires holographiques](#), **Gilles Pauliat**, Sep. 2011. Séminaire sur les mémoires holographiques et les mémoires de Lippmann présentées au GIS DON (Disques Optiques Numérique) le 13 septembre 2011
- S2. [Optical non linearities in structured materials](#), **Gilles Pauliat**, Nov. 2010. Budapest University of Technology and Economics Dept. of Atomic Physics
- S3. [Optical non linearities in structured materials: Raman converters in microstructured fibers and non linearities enhancement in semiconductor waveguides and photonic bandgap devices](#), **Gilles Pauliat**, Nov. 2010. Institute of Industrial Science, University of Tokyo
- S4. [Exaltation des non linéarités optiques dans les structures à cristal photonique](#), **Gérald Roosen**, 2009. Séminaire Université Laval-Québec
- S5. [Photorefractive self-organized laser cavities](#), **Gilles Pauliat**, Apr. 2008. Institut für Angewandte Physik, Universität de Muenster
- S6. [Films minces ferroélectriques pour applications électrooptiques](#), **Mireille Cuniot-Ponsard**, Apr. 2008. Séminaire invité à l'Institut de Chimie Moléculaire et des Matériaux d'Orsay (ICMMO), Université Paris XI. 10 avril 2008

REPUTATION AND ACADEMIC ATTRACTIVITY

INTERACTIONS WITH SOCIAL, ECONOMIC AND CULTURAL ENVIRONMENT

DISSEMINATION OF SCIENTIFIC INFORMATION

[Photon Extra-bunching in Twin Beams](#), Antoine Godard; Fabien Boitier; **Nicolas Dubreuil; Philippe Delaye**; Emmanuel Rosencher; Claude Fabre, *Optics and Photonics News*, 2011, 22 (12), pp. 38

Gilles Pauliat

- Co-organisateur de la journée de conférence "Un monde en couleurs: de Gabriel Lippmann à la nanophotonique", Paris (2008) à mentionner par ailleurs au titre de la diffusion des connaissances scientifiques.
- Membre du comité de direction de l'exposition "Un monde en couleurs : de Gabriel Lippmann à la nanophotonique" Paris, Palais de la découverte (2009) à rajouter à la liste de diffusion des connaissances scientifiques de MANOLIA

SERVICE TO THE SCIENTIFIC COMMUNITY AT LARGE

Gilles Pauliat,

- Membre élu du Conseil d'Administration de la "European Optical Society,
- Membre élu du Conseil d'Administration de la "Société Française d'Optique" (2009 à 2012)
- Membre du comité scientifique de HOLO3, centre de transfert de technologie (St Louis) (2010 à 2013)
- Président du colloque Horizons de l'Optique, Marseille (2011)
- Parrain du EOS/SFO Paris Student Club (créé en 2011) (2011 à 2013)
- Vice-président du Conseil d'Administration de la "Société Française d'Optique" (2012 et 2013)
- Président du colloque Horizons de l'Optique, Villetaneuse (2013)

BIOPHOTONICS, BIOPHOTONIQUE

SUMMARY FOR THE BIOPHOTONICS GROUP

The reporting period is 1st January 2008 – 30th June 2013. This table summarizes the current (30th June 2013) and cumulative (1st January 2008 – 30th June 2013) data.

Faculty, research faculty (current)	5		
Non-permanent research scientists (cumul.)	12	Doctoral students (current)	4
Research interns (> 3 months, cumulative)	17	Peer reviewed journal articles (cumulative)	28
Conference presentations (cumulative)	134	Seminars (cumulative)	13
of which invited conf. presentations (cumul.)	18	Doctoral theses and habilitations defended (cumul.)	10
Patents applications filed (cumulative)	0	Book chapters (cumulative)	5

SCIENTIFIC PUBLICATIONS

(*) Stars indicate publications common to several groups of LCF or to LCF and another laboratory of Institut d'Optique (LP2N in Bordeaux from January 2011, Laboratoire Hubert Curien in Saint-Etienne). They are listed several times as appropriate.

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- A1. [Simultaneous optically sectioned fluorescence and optical coherence microscopy with full-field illumination](#), Houssine Makhoulf; Karen Perronet; Guillaume Dupuis; Sandrine Leveque-Fort; **Arnaud Dubois**, *Optics Letters*, 2012, 37, pp. 1613
- A2. [Angle-dependent resonance of localized and propagating surface plasmons in microhole arrays for enhanced biosensing](#), Ludovic S. Live; Anuj Dhawan; Kirsty F. Gibson; Hugo-Pierre Poirier-Richard; Duncan Graham; **Michael Canva**; Tuan Vo-Dinh; Jean-François Masson, *Analytical and Bioanalytical Chemistry*, 2012, 404 (10), pp. 2859-2868
- A3. [Bimodal behavior and isobestic transition pathway in surface plasmon resonance sensing](#), Anuj Dhawan; **Michael Canva**; Tuan Vo-Dinh, *Optics Express*, 2012, 20 (21), pp. 23630
- A4. [Biochip data normalization using multifunctional probes](#), **Jérôme Hottin**; **Julien Moreau**; **Alain Bellemain**; **Michael Canva**, *Analyst*, 2012, 137, pp. 3119
- A5. [Elaboration and grafting of magnetic bead-chains for detection of anisotropy with polarimetric surface plasmon resonance imaging system](#), Marie Trévisan; Y. Chevolut; V. Monnier; J.-P. Cloarec; E. Souteyrand; **Aurélien Duval**; **Julien Moreau**; **Michael Canva**, *International Journal of Nanoscience*, 2012, 11 (4), pp. 1240012
- A6. [High resolution spectral-domain optical coherence tomography at 1.3 micron center wavelength using a broadband superluminescent diode light source](#), Masreshaw Bayleyegn; **Houssine Makhoulf**; Caroline Crotti; Karsten Plamann; **Arnaud Dubois**, *Optics Communications*, 2012, 285, pp. 5564
- A7. * [New tool for glaucoma surgery assisted by femtosecond laser and optical coherence tomography](#), Karsten Plamann; Fatima Alahyane; Florent Aptel; **Masreshaw Bayleyegn**; Antoine Courjaud; Caroline Crotti; Florent Deloison; **Frédéric Druon**; **Arnaud Dubois**; **Patrick Georges**; **Marc Hanna**; Laura Kowalczyk; Jean-Marc Legeais; Tal Marciano; Eric Mottay; Michèle Savoldelli, *Ingénierie et Recherche BioMédicale (IRBM)*, 2012, 33 (2), pp. 42-47
- A8. [Spectroscopic polarization-sensitive full-field optical coherence microscopy](#), **Arnaud Dubois**, *Optics Express*, 2012, 20, pp. 9962
- A9. * [Improved photon yield from a green dye with a reducing and oxidizing system](#), Antoine Le Gall; **David Dulin**; Gilles Clavier; Rachel Méallet-Renault; **Philippe Bouyer**; **Karen Perronet**; **Nathalie Westbrook**, *ChemPhysChem*, 2011, 12 (9), pp. 1657-1660
- A10. [Deep UV Nano-Micro-Structuration of Substrates for Surface Plasmon Resonance Imaging](#), Anuj Dhawan; **Aurélien Duval**; **Mohamed Nakkach**; **Grégory Barbillon**; **Julien Moreau**; **Michael Canva**; Tuan Vo-Dinh, *Nanotechnology*, 2011, 22, pp. 165301
- A11. [Large area nanopatterning by combined Anodic Aluminum Oxide and soft UV-NIL technologies for applications in biology](#), Frédéric Hamouda; Houda Sahaf; Sylvain Held; **Grégory Barbillon**; Philippe Gogol; Eric Moyen; Abdelhanin Aassime; **Julien Moreau**; **Michael Canva**; Jean-Michel Lourtioz; Margrit Hanbücken; Bernard Bartenlian, *Microelectronic Engineering*, 2011, 88, pp. 2444-2446
- A12. [Modeling and validation of multiplex proteo-nucleic self-assemblies monitored by surface plasmon resonance imagery](#), Aude Laisné; **Jolanda Spadavecchia**; **Julien Moreau**; **Michael Canva**; Denis Pompon, *Sensors and Actuators B: Chemical*, 2011, 160 (1), pp. 1309-1315

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- A14. * [Simultaneous calibration of optical tweezers spring constant and position detector response](#), **Antoine Le Gall**; **Karen Perronet**; **David Dulin**; **André Villing**; **Philippe Bouyer**; **Koen Visscher**; **Nathalie Westbrook**, *Optics Express*, 2010, 18 (25), pp. 26469
- A15. [Angulo-spectral surface plasmon resonance imaging of nanofabricated grating surfaces](#), **Mohamed Nakkach**; **Aurélien Duval**; **Buntha Ea-Kim**; **Julien Moreau**; **Michael Canva**, *Optics Letters*, 2010, 35 (13), pp. 2209-2211
- A16. * [Motion artifact suppression in full-field optical coherence tomography](#), **Delphine Sacchet**; Michal Brzezinski; **Julien Moreau**; **Arnaud Dubois**, *Applied Optics*, 2010, 49 (9), pp. 1480-1488
- A17. [Micro-spectrometry in the visible range with full-field optical coherence tomography for single absorbing layers](#), Gael Latour; **Julien Moreau**; Mady Elias; Jean-Marc Frigerio, *Optics Communications*, 2010, 283 (23), pp. 4810-4815
- A18. [Polarimetric surface plasmon resonance imaging biosensor](#), **Aurélien Duval**; Aude Laisné; Denis Pompon; Sylvain Held; **Alain Bellemain**; **Julien Moreau**; **Michael Canva**, *Optics Letters*, 2009, 34 (23), pp. 3634-3636 ; also published in : *Virtual Journal for Biomedical Optics*, 2010, 5 (1)
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- A21. [Surface plasmon resonance spectro-imaging sensor for biomolecular surface interaction characterization](#), Fabrice Bardin; **Alain Bellemain**; **Gisèle Roger**; **Michael Canva**, *Biosensors and Bioelectronics*, 2009, 24, pp. 2100-2105
- A22. [Spectroscopic ultrahigh-resolution full-field optical coherence microscopy](#), **Arnaud Dubois**; **Julien Moreau**; Claude Boccara, *Optics Express*, 2008, 16 (21), pp. 17082
- A23. [Absorption and related optical dispersion effects on the spectral response of a surface plasmon resonance sensor](#), **Mohamed Nakkach**; **Pierre Lecaruyer**; **Fabrice Bardin**; Jouar Sakly; Zohra Ben Lakhdar; **Michael Canva**, *Applied Optics*, 2008, 47, pp. 6177-6182
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- CHO1. [Optical coherence tomography](#), **Arnaud Dubois**; Claude Boccara, *Optics in Instruments. Applications in Biology and Medicine*, ISTE, WILEY, pp. 101, 2013
- CHO2. [Full-Field Optical Coherence Microscopy](#), **Arnaud Dubois**, Gangjun Liu. *Selected Topics in Optical Coherence Tomography*, INTECH, pp. 3-20, Feb. 2012
- CHO3. [Cellular-level optical biopsy using full-field optical coherence microscopy](#), **Arnaud Dubois**, Floris G. Wouterlood. *Cellular Imaging Techniques for Neuroscience and Beyond*, Elsevier, pp. 185, 2012, 978-0-12-385872-6
- CHO4. [Imager au-delà de la limite de diffraction grâce à la microscopie STED](#), Siddharth Sivankutty; Guillaume Dupuis; C. Marquer; Sandrine Lecart; C. Lefumeux; M.C. Potier; **Arnaud Dubois**; Sandrine Leveque-Fort, Stéphane Mottin, François Ramaz, Gérard Lelièvre. *Biophotonique Générale*, Publications Mission Ressource et Compétences Technologiques, pp. 110, 2012
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- CINV1. [Nano-micro-ridges structures and probe localization effect for bioplasmonic sensing](#), **Maha Chamtoury**; **Mondher Besbes**; **Julien Moreau**; **Michael Canva**, *International conference on metamaterials, photonic crystals and plasmonics (META-2013)*, Mar 2013, United Arab Emirates.
- CINV2. [Plasmonic imaging sensors using 1- 2- or 3-dimensions structured substrates - continuum of plasmonic structures from nano to micro](#), **Maha Chamtoury**; **Julien Moreau**; **Anne-Lise Coutrot**; **Mondher Besbes**; **Michael Canva**, *the great Scientific Exchange (SCiX-2012)*, *Plasmonics*, Sep 2012, Kansas City, United States.

- CINV3. [Skin tumor diagnosis by multimodal optical imaging](#), **Houssine Makhlouf**; Nadine Volger; N. Bendsoe; B. Dietzek; Jürgen Popp; Katarina Svanberg; **Arnaud Dubois**, *International Congress on Biophotonics*, Jun 2012, Iéna, Germany.
- CINV4. [Extended full-field optical coherence microscopy](#), **Arnaud Dubois**, *International Topical Meeting on Optical Sensing and Artificial Vision*, May 2012, Saint-Petersbourg, Russian Federation.
- CINV5. [Development and modelling of surface plasmon resonance imaging biosensor chips based on gold nano- and micro-structured film](#), **Michael Canva**; **Maha Chamtour**; Anuj Dhawan; **Mondher Besbes**; Hsin-Neng Wang; Andrew Fales; **Julien Moreau**; Tuan Vo-Dinh, *International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2012) - Plasmonics and Biomedical applications*, Apr 2012, Paris, France.
- CINV6. [Spectro-Angular properties of micro-structured plasmonics substrates](#), **Maha Chamtour**; **Julien Moreau**; **Anne-Lise Coutrot**; **Buntha Ea-Kim**; **Mondher Besbes**; Anuj Dhawan; Tuan Vo-Dinh; **Michael Canva**; Ludovic S. Live; Jean-François Masson, *Federation of Analytical Chemistry and Spectroscopy Societies Meeting (FACSS) - Plasmonics*, Oct 2011, Reno, United States.
- CINV7. [Surface Plasmonic Biochips -from instrumentation to nano-micro-structured substrates](#), **Michael Canva**; **Alain Bellemain**; **Julien Moreau**, *Topical Problems in Biophotonics*, Jul 2011, Russian Federation.
- CINV8. [Surface Plasmon Resonance Imaging Sensors - Application to Biochip Systems](#), **Michael Canva**; Anuj Dhawan; **Aurélien Duval**; **Mohamed Nakkach**; **Buntha Ea-Kim**; **Alain Bellemain**; **Julien Moreau**; Tuan Vo-Dinh, *Frontiers in Photonics Sciences and Technology*", 2010 FIP Symposium, Oct 2010, Durham, United States.
- CINV9. [Multiparametric Surface Plasmon Resonance Imaging Systems and Nano-Micro-Milli-Structured Biochip Substrates](#), **Michael Canva**; Anuj Dhawan; **Aurélien Duval**; **Mohamed Nakkach**; **Buntha Ea-Kim**; **Alain Bellemain**; **Julien Moreau**; Tuan Vo-Dinh, *FACSS 2010 Federation of Analytical Chemistry and Spectroscopy Societies, "Surface Plasmon Resonance Instrumentation and Applications"*, Oct 2010, Raleigh, United States.
- CINV10. [Plasmonics Biochips and Nano-Micro-Milli- Structuration](#), **Michael Canva**; **Julien Moreau**; **Alain Bellemain**; **Aurélien Duval**; **Mohamed Nakkach**; **Grégory Barbillon**; **Maha Chamtour**; Anuj Dhawan; Tuan Vo-Dinh, *3ème colloque du Laboratoire International Associé "Nanotechnologies & Nanosystèmes" LN2, Université de Sherbrooke*, Jul 2010, Québec, Canada.
- CINV11. [Biopuces à plasmons de surface : aspects multiparamétriques et applications](#), **Mohamed Nakkach**; **Aurélien Duval**; **Jérôme Hottin**; Jolanda Spadavecchia; **Alain Bellemain**; **Julien Moreau**; **Michael Canva**, *5ème colloque interdisciplinaire en instrumentation (C2I)*, Jan 2010, Le Mans, France.
- CINV12. * [Towards single-molecule observation of protein synthesis](#), **David Dulin**; **Antoine Le Gall**; **Philippe Bouyer**; **Karen Perronet**; **Nathalie Westbrook**; Nicolas Soler; Dominique Fourmy; Satoko Yoshizawa, *Tecnolaser 2009*, Apr 2009, La Havane, Cuba. *Revista cubana de fisica*, 27, pp. 9, 2010
- CINV13. [Dynamical Multimodal Surface Plasmon Resonance Imaging](#), **Michael Canva**; **Julien Moreau**; **Gisèle Roger**; **Alain Bellemain**; **Jérôme Hottin**; **Aurélien Duval**; **Jolanda Spadavecchia**; **Mohamed Nakkach**, *Topical Problems in BioPhotonics 2009*, Jul 2009, Russian Federation.
- CINV14. * [Tomographie par cohérence optique à 2 longueurs d'onde](#), **Delphine Sacchet**; **Julien Moreau**; **Patrick Georges**; Claude Boccara; **Arnaud Dubois**, *colloque Imagerie pour les Sciences du Vivant et la Médecine (IMVIE5)*, Jun 2009, mulhouse, France.
- CINV15. [Biocapteurs optiques de type puces à ADN \(Imagerie en mode de Résonance de Plasmon de Surface et Biopuces\)](#), **Michael Canva**; **Julien Moreau**; **Gisèle Roger**; **Alain Bellemain**; **Jérôme Hottin**; **Aurélien Duval**; **Jolanda Spadavecchia**; **Mohamed Nakkach**, *Biophotonique*, Jan 2009, Tunisia.
- CINV16. [Multimodal Surface Plasmon Resonance Imaging as a characterization instrument for biomolecular surface interactions](#), **Michael Canva**; **Julien Moreau**; **Gisèle Roger**; **Alain Bellemain**; **Jérôme Hottin**; **Aurélien Duval**; **Jolanda Spadavecchia**; **Mohamed Nakkach**, *International Workshop on Photonics and Applications*, Sep 2008, Nha Tran, Viet Nam.
- CINV17. [Full-field optical coherence tomography](#), **Arnaud Dubois**, *Workshop on Bioimaging and applications*, Jun 2008, Palaiseau, France.

- CINV18. [Full-field optical coherence microscopy](#), Arnaud Dubois, ICO Topical Meeting on Optoinformatics/Information Photonics, May 2008, saint-Petersbourg, Russian Federation

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- CA1. [Extended full-field OCM](#), **Arnaud Dubois**, *3rd International Topical Meeting on Optical Sensing and Artificial Vision*, 2012, Russian Federation. AIP Conf. Proc., 1537, pp. 123, 2013
- CA2. [Towards STED microscopy with nanometric optical sectioning](#), Siddharth Sivankutty; Guillaume Dupuis; Christophe Lefumeux; Céline Mayet; **Arnaud Dubois**; C. Marquer; Sandrine Lecart; Marie-Claude Potier; Emmanuel Fort; Sandrine Leveque-Fort, *Photonics West - Biomedical Optics*, 2013, San Francisco, United States. Proc. SPIE 8590, Single Molecule Spectroscopy and Superresolution Imaging VI, 859018, pp. 1-7
- CA3. [Real-time imaging of the Schlemm's canal by Fourier-Domain Optical Coherence Tomography for glaucoma laser surgery](#), **Masreshaw Bayleyegn; Houssine Makhlof**; Caroline Crotti; Karsten Plamann; **Arnaud Dubois**, *Diagnostic et Imagerie Optique en Médecine et Biologie, 8e colloque national*, 2012, Paris, France. OptDiag 2012, pp. 1111
- CA4. [A new approach for real-time analysis of biomolecular interactions using surface plasmon resonance imaging SPRi](#), Houda Mezlini; Catalin Fetita; **Michael Canva; Julien Moreau**; Hassen Ghalila; Sylvie Ghalila, *Biomedical Applications in Molecular, Structural, and Functional Imaging, Medical Imaging 2012*, Feb 2012, United States. Proceedings of SPIE, 8317, p. 831725:1-14
- CA5. [Amélioration de la durée de vie de fluorophores organiques. Utilisation dans des extraits cellulaires](#), **Nicolas Fiszman; Antoine Le Gall**; Héléne Chommy; **David Dulin**; Héléne Walbott; Dominique Fourmy; Satoko Yoshizawa; Olivier Namy; **Nathalie Westbrook; Karen Perronet**, *OptDiag 2012 Diagnostic et Imagerie Optique en Médecine et Biologie, Biophotonique*, May 2012, Paris, France. Biophotonique (publications MRCT CNRS), pp. 1
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- CO1. [Single-molecule fluorescence observations of eukaryotic translation](#), **Nicolas Fizman; Hélène Chommy; Antoine Le Gall**; Matthieu Saguy; **David Dulin; Nathalie Westbrook; Karen Perronet**; Olivier Namy, *57th Annual Meeting of the Biophysical Society*, Feb 2013, United States.
- CO2. [Réduction de la dispersion des mesures en imagerie par résonance des plasmons de surface \(SPRi\) par interrogation spectrale](#), **Alexandra Sereda; Julien Moreau; Michael Canva**; Emmanuel Maillart, *6ième Colloque Interdisciplinaire en Instrumentation C2I*, Jan 2013, Lyon, France.
- CO3. [Observation d'un ribosome eucaryote en cours de traduction](#), **Nicolas Fizman; Hélène Chommy**; Olivier Bugaud; **Antoine Le Gall; Karen Perronet**; Olivier Namy; **Nathalie Westbrook**, *Nouvelles méthodologies en imagerie du vivant, journées scientifiques conjointes des GDR Imageries in vivo, Microscopie fonctionnelle du vivant, Modélisation et instrumentation pour l'imagerie biomédicale et STIC-santé: Signaux et Images*, Dec 2012, Lyon, France.
- CO4. [Reduction of data dispersion in SPR imaging systems through angulo-spectral measurement](#), **Alexandra Sereda; Julien Moreau; Alain Bellemain; Michael Canva**, *Label Free Technology, Advances and Applications 2012*, Nov 2012, Amsterdam, Netherlands.
- CO5. [BioPlasmonic Angulo-spectral Imaging Systems and Nano-Micro-Structured Substrates](#), **Julien Moreau; Maha Chamtouri; Alexandra Sereda; Alain Bellemain; Mondher Besbes; Anne-Lise Coutrot; Buntha Ea-Kim; Michael Canva**, *International Congress in Biophotonics (ICOB)*, Jun 2012, Jena, Germany.
- CO6. [Dual-modality fluorescence and full-field optical coherence microscopy](#), **Houssine Makhlof; Karen Perronet**; Guillaume Dupuis; Sandrine Leveque-Fort; **Arnaud Dubois**, *International Congress on Biophotonics*, Jun 2012, Iéna, Germany.
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- CO8. [Cinétique de traduction des ribosomes à l'échelle de la molécule unique par microscopie de fluorescence](#), **Nicolas Fizman; Antoine Le Gall**; Héléne Chommy; **David Dulin**; Héléne Walbott; Dominique Fourmy; Satoko Yoshizawa; Olivier Namy; **Nathalie Westbrook; Karen Perronet**, *OPT-DIAG 2012 Diagnostic et Imagerie Optique en Médecine et Biologie Biophotonique*, May 2012, France.
- CO9. * [Time-resolved STED microscopy](#), Siddharth Sivankutty; Guillaume Dupuis; Sandrine Lecart; Christophe Lefumeux; **Frédéric Druon; Patrick Georges; Arnaud Dubois**; Sandrine Leveque-Fort, *colloque Diagnostic et imagerie optiques en médecine (OPT-DIAG)*, May 2012, Paris, France.
- CO10. [Ultrahigh resolution full-field optical coherence microscopy with multiple light-emitting diodes](#), **Houssine Makhlof; Masreshaw Bayleyegn; Mitradeep Sakar; Delphine Sacchet; Arnaud Dubois**, *Spie photonics europe*, Apr 2012, Bruxelles, Belgium.
- CO11. [Combined full-field fluorescence and optical coherence microscopy](#), **Houssine Makhlof; Karen Perronet**; Guillaume Dupuis; Sandrine Leveque-Fort; **Arnaud Dubois**, *Conference Focus on Microscopy*, Apr 2012, Singapore.
- CO12. [Enhanced SPR Biosensing with microhole arrays and peptide monolayers](#), Jean-François Masson; Ludovic S. Live; Julien Breault-Turcot; **Michael Canva**; K. Gibson; D. Graham; Anuj Dhawan; Tuan Vo-Dinh, *Europtrode XI - 11th conference on optical chemical sensors and biosensors*, Apr 2012, Barcelone, Spain.
- CO13. [Spectroscopic polarization-sensitive full-field optical coherence microscopy](#), **Arnaud Dubois**, *Conference Focus on Microscopy*, Apr 2012, Singapore.
- CO14. * [Tunable time-resolved STED microscopy](#), Siddharth Sivankutty; Guillaume Dupuis; Sandrine Lecart; C. Lefumeux; **Frédéric Druon; Patrick Georges; Arnaud Dubois**; Sandrine Leveque-Fort, *Focus on Microscopy*, Apr 2012, Singapore.
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- CO18. [Plasmonic sensing in crude biofluids with microhole arrays](#), Jean-François Masson; Ludovic S. Live; Julien Breault-Turcot; Damien Colin; Joelle Pelletier; **Michael Canva**, *BIOS Plasmonics in Biology and Medecine IX, SPIE Photonics West*, Jan 2012, San Francisco, United States.
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- CO21. [Skin tumor diagnosis by multimodal optical imaging](#), Nadine Volger; B. Dietzek; Jürgen Popp; N. Bendsoe; Katarina Svanberg; **Masreshaw Bayleyegn; Arnaud Dubois**, *Workshop of the european network Photonics 4 Life*, Dec 2011, Germany.
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- CO23. [Assembling, locating, grafting and actuating permanent filaments for validation of Polarimetric Surface Plasmon Resonance Imaging system](#), Marie Trevisan; **Aurélien Duval; Julien Moreau**; Bernard Bartenlian; **Michael Canva**; V. Monnier; Yann Chevolut; Jean-Pierre Cloarec; Eliane Souteyrand, *Euroensors XXV*, Sep 2011, Athens, Greece.
- CO24. [Translation by a single eukaryotic ribosome](#), **Antoine Le Gall; Nicolas Fiszman; Nathalie Westbrook; Karen Perronet**; Hélène Chommy; Matthieu Saguy; Olivier Namy, *8th EBSA European Biophysics Congress*, Aug 2011, Budapest, Hungary.
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- CO46. [Surface Plasmon Resonance Imaging BioSensors and Nano-Micro Structuration](#), **Julien Moreau**; **Aurélien Duval**; Anuj Dhawan; **Mohamed Nakkach**; **Alain Bellemain**; Tuan Vo-Dinh; **Michael Canva**, *Frontiers in Photonics Sciences and Technology", 2010 FIP Symposium*, Oct 2010, Durham, United States.
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- Spadavecchia**; Laure Lecerf; Michel Goossens; **Michael Canva**, *SPIE Photonics West 2009*, Jan 2009, San Jose, United States.
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- CO88. * [Detection and manipulation of single biomolecules for the study of ribosome dynamics](#), **David Dulin; Antoine Le Gall; Karen Perronet; Philippe Bouyer; Nathalie Westbrook; Nicolas Soler**; Dominique Fourmy; Satoko Yoshizawa, *European Network of Excellence "Photonics 4 life" Scientific Meeting*, Nov 2008, France.
- CO89. [Surface plasmon resonance imaging biochip system - application to genotyping](#), **Jérôme Hottin; Jolanda Spadavecchia; Alain Bellemain; Julien Moreau; Michael Canva**, *FP7 Photonics for Life 2008 scientific meeting*, Nov 2008, Bruxelles, Belgium.
- CO90. [Multimodal plasmon resonance imaging biosensors](#), **Aurélien Duval; Mohamed Nakkach; Alain Bellemain; Alain Aide; Julien Moreau; Michael Canva**, *EOS annual meeting 08, Biophotonics*, Oct 2008, Paris, France.
- CO91. [Dynamical biochip system and self calibration methodology patent](#), **Michael Canva**, *OPTO 2008, FIST*, Sep 2008, Paris Villepinte, France.
- CO92. * [Single-molecule fluorescence microscopy study of the ribosome translation process](#), **Karen Perronet; David Dulin; Nathalie Westbrook; Philippe Bouyer**; Nicolas Soler; Satoko Yoshizawa; Dominique Fourmy, *European Optical Society Annual Meeting*, Sep 2008, Villepinte, France.
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- CO95. [Imagerie angulo-spectrale plasmonique appliqué à la lecture dynamique de biopuces](#), **Mohamed Nakkach; Zohra Ben Lakhdar; Michael Canva**, *Ecole thématique interdisciplinaire "Nanoparticules d'or et résonance plasmon"*, Jun 2008, Porquerolles, France.
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- CO97. [Spectroscopic full-field optical coherence tomography](#), **Julien Moreau**; Claude Boccara; **Arnaud Dubois**, *Focus on Microscopy*, Apr 2008, Osaka-Awaji, Japan.
- CO98. [Multimodal surface plasmon resonance imaging for biochip applications](#), **Michael Canva**, *EOS Topical meeting on Photonic Devices*, Mar 2008, Utrecht, Netherlands.
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- CO100. [Surface Plasmon Resonance Imaging Sensors for Biomolecular Surface Interaction Characterization: Application to Dynamic Biochips - Example of Genetic Diagnosis Chip](#), **Julien Moreau; Gisèle Roger; Alain Bellemain; Jolanda Spadavecchia; Jérôme Hottin; Mohamed Nakkach; Aurélien Duval**; Laure Lecerf; Serge Pissard; Michel Goossens; **Michael Canva**, *IBE 2008 Annual Meeting, Biological Engineering - Optical Sensing*, Mar 2008, Chapel Hill, United States.
- CO101.* [Detection and manipulation of single biomolecules for studying ribosome dynamics](#), **David Dulin; Karen Perronet; Nathalie Westbrook; Philippe Bouyer**; Nicolas Soler; Satoko Yoshizawa; Dominique Fourmy, *Journée C'Nano Ile de France*, Feb 2008, Châtenay-Malabry, France.
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DOCTORAL THESES

- T1. [Etude exhaustive de la sensibilité des Biopuces plasmoniques structurées intégrant un réseau rectangulaire 1D : effet de la transition des plasmons localisés vers les plasmons propagatifs](#), **Maha Chamtouri**, Université Paris Sud - Paris XI, may 2013, French
- T2. [Tomographie par cohérence optique pour la chirurgie laser du glaucome](#), **Masreshaw Bayleyegn**, Université Paris Sud - Paris XI, Dec. 2012. English
- T3. [Imagerie multidimensionnelle en mode de résonance de plasmons de surface de structures de biopuces : expérience et modélisation](#), **Mohamed Nakkach**, Université Paris Sud - Paris XI, Jul. 2012. French
- T4. [Microscopie de fluorescence résolue en temps et en polarisation pour le suivi d'interactions protéiques en neurobiologie](#), **Viviane Devauges**, Université Paris Sud - Paris XI, Dec. 2011. French
- T5. [Pince optique et microscopie de fluorescence pour l'étude de la synthèse des protéines en molécule unique](#), **Antoine Le Gall**, Université Paris Sud - Paris XI, Nov. 2011. French
- T6. [Tomographie par cohérence optique plein champ linéaire et non linéaire](#), **Delphine Sacchet**, physique pour l'instrumentation. Université Paris Sud - Paris XI, Jul. 2010. French
- T7. [Observation de l'activité traductionnelle d'un ribosome unique par microscopie de fluorescence couplée à un système microfluidique](#), **David Dulin**, Université Paris Sud - Paris XI, Oct. 2009. French
- T8. [Système de biopuces à imagerie plasmonique polarimétrique pour la caractérisation dynamique de l'anisotropie de films nano-fonctionnalisés et nano-structurés](#), **Aurélien Duval**, physique et nanophysique. Université Paris Sud - Paris XI, Jul. 2009. French
- T9. [Caractéristiques Optiques et Dynamiques d'Interactions Biomoléculaires de Surface - Application aux biopuces à ADN](#), **Jérôme Hottin**, physique pour les sciences du vivant. Université Paris Sud - Paris XI, Jul. 2009. French
- T10. [Développement et application de la tomographie par cohérence optique plein champ pour l'étude du matériau papier](#), Marie Blavier, Université Pierre et Marie Curie - Paris VI, Jan. 2008. French

SEMINAR PRESENTATIONS

- S1. [Cinétique de traduction de ribosomes individuels par microscopie de fluorescence](#), **Karen Perronet**, Séminaire Interface Physique-Biologie de l'Université Paris-Sud, invitation Olivier Martin et Martin Lenz, May. 2013
- S2. [High resolution optical imaging of biological tissues](#), **Arnaud Dubois**, Séminaire à l'Université de Tunis El Manar, Tunisie. Invitation par le Pr. Ezeddine Sediki, Jun. 2012
- S3. [Skin tumor diagnosis by optical coherence tomography](#), **Arnaud Dubois**, Séminaire à l'IPHT (Iéna, Allemagne) ; invitation par Pr. J. Popp, Oct. 2011
- S4. [Optical tweezer and fluorescence microscopy for the study of protein synthesis](#), **Antoine Le Gall**, Séminaire au Centre de Biochimie Structurale à Montpellier. Invitation d'Emmanuel Margeat et Marcelo Nollmann., Sep. 2011
- S5. [Tomographie par cohérence optique en plein champ](#), **Arnaud Dubois**, Séminaire à l'Institut National de Physique Nucléaire et de Physique des Particules (IN2P3), laboratoire IMNC, invitation par Dr. Frédéric Pain, May. 2011
- S6. [Systèmes d'imagerie en mode de résonance de plasmon de surface : application aux biopuces](#), **Michael Canva**, Séminaire Ecole Polytechnique, Palaiseau, Mar. 2011
- S7. [Expériences de biophysique à l'échelle de la molécule unique par pince optique et microscopie de fluorescence. Application à l'étude de la synthèse des protéines.](#), **Karen Perronet**, Laboratoire d'Hydrodynamique de l'école Polytechnique (LadHyX, Palaiseau, France), invitation d'Abdul Barakat, Nov. 2010
- S8. [Observation de l'activité du ribosome par microscopie de fluorescence de molécule unique](#), **Karen Perronet**, Laboratoire d'Optique et Biosciences (LOB, Palaiseau France), invitation d'Antigoni Alexandrou, Oct. 2009
- S9. [Single-molecule fluorescence microscopy study of the ribosome translation process](#), **David Dulin**, TU Delft (Pays-Bas) invité par Nynke Dekker, Apr. 2009
- S10. [Single-molecule fluorescence microscopy study of the ribosome translation process](#), **David Dulin**, University of Cornell, Weill-Cornell Medical Institute, New York (USA). invité par Pr. Scott Blanchard, Mar. 2009
- S11. [Single-molecule fluorescence microscopy study of the ribosome translation process](#), **David Dulin**, University of Columbia, New York (USA), invité par Pr. Ruben Jr Gonzales, Mar. 2009
- S12. [Single-molecule fluorescence microscopy study of the ribosome translation process](#), **David Dulin**, University of Massachussets, Amherst.(USA) invité par Pr. Lori Goldner, Mar. 2009

- S13. [Détection et manipulation de biomolécules uniques pour étudier la dynamique du ribosome](#), **Karen Perronet**, Institut de Génétique et Microbiologie, Orsay, France, invitation d'Olivier Namy, Sep. 2008

REPUTATION AND ACADEMIC ATTRACTIVITY

INTERACTIONS WITH SOCIAL, ECONOMIC AND CULTURAL ENVIRONMENT

DISSEMINATION OF SCIENTIFIC INFORMATION

- M1. [Biopuces à imagerie par résonance de plasmons de surface pour l'étude de la dynamique du vivant](#), **Aurélien Duval; Mohamed Nakkach**, *Photoniques*, 2008, 35, pp. 53-59
- M2. [Biopuces dynamiques et imagerie en mode de résonance de plasmon de surface](#), **Pierre Lecaruyer; Michael Canva**, *Techniques de l'Ingenieur*, 2008, R6718, pp. 1-10

SERVICE TO THE SCIENTIFIC COMMUNITY AT LARGE

M. Canva

- Member of the C'Nano Ile de France valorisation committee (2010-2013)

A. Dubois

- Grant application evaluation for Israel Science Foundation, Fondation Pierre-Gilles de Gennes

K. Perronet

- Grant application evaluation for FQRNT, Québec (2011-2012)

LASERS

SUMMARY FOR THE LASERS GROUP

The reporting period is 1st January 2008 – 30th June 2013. This table summarizes the current (30th June 2013) and cumulative (1st January 2008 – 30th June 2013) data.

Faculty, research faculty (current)	5	Industrial collaborators (common laboratories)	2
Non-permanent research scientists (cumul.)	6	Doctoral students (current)	7
Research interns (> 3 months, cumulative)	16	Peer reviewed journal articles (cumulative)	94
Conference presentations (cumulative)	220	Seminars (cumulative)	8
of which invited conf. presentations (cumul.)	20	Doctoral theses and habilitations defended (cumul.)	16
Patents applications filed (cumulative)	6	Book chapters (cumulative)	0

SCIENTIFIC PUBLICATIONS

(*) Stars indicate publications common to several groups of LCF or to LCF and another laboratory of Institut d'Optique (LP2N in Bordeaux from January 2011, Laboratoire Hubert Curien in Saint-Etienne). They are listed several times as appropriate.

ARTICLES IN INTERNATIONAL PEER-REVIEWED JOURNALS

- A1. [Amplification of cylindrically polarized laser beams in single crystal fiber amplifiers](#), Stefan Piehler; **Xavier Délen**; Martin Rumpel; Julien Didierjean; Nicolas Aubry; Thomas Graf; **François Balembois**; **Patrick Georges**; Marwan Abdou Ahmed, *Optics Express*, 2013, 21 (9), pp. 11376-11381
- A2. [Hybrid master oscillator power amplifier high-power narrow-linewidth nanosecond laser source at 257 nm](#), **Xavier Délen**; **Loïc Deyra**; Aurélien Benoit; **Marc Hanna**; **François Balembois**; Benjamin Cocquelin; Damien Sangla; François Salin; Julien Didierjean; **Patrick Georges**, *Optics Letters*, 2013, 38 (6), pp. 995-997
- A3. [Passively Q-switched diode-pumped Er:YAG solid-state laser](#), **Adrien Aubourg**; Didierjean Julien; Nicolas Aubry; **François Balembois**; **Patrick Georges**, *Optics Letters*, 2013, 38 (6), pp. 938
- A4. [Megawatt peak power, 1 kHz, 266 nm sub nanosecond laser source based on single-crystal fiber amplifier](#), **Loïc Deyra**; Igor Martial; Didierjean Julien; **François Balembois**; **Patrick Georges**, *Applied Physics B: Lasers and Optics*, 2013
- A5. [Femtosecond fiber chirped and divided pulse amplification system](#), Yoann Zaouter; **Florent Guichard**; **Louis Daniault**; **Marc Hanna**; Franck Morin; Clemens Hönninger; Eric Mottay; **Frédéric Druon**; **Patrick Georges**, *Optics Letters*, 2013, 38 (2), pp. 106
- A6. [Yb:YAG single crystal fiber power amplifier for femtosecond sources](#), **Xavier Délen**; Yoann Zaouter; Igor Martial; Nicolas Aubry; Julien Didierjean; Clemens Hönninger; Eric Mottay; **François Balembois**; **Patrick Georges**, *Optics Letters*, 2013, 38 (2), pp. 109-111
- A7. [Pure and Yb3+ doped fluorites \(Ca,Sr,Ba\)F2: A renewal for the future high intensity laser chains](#), Richard Moncorgé; Patrice Camy; Jean-Louis Doualan; Alain Braud; Jean Margerie; **Lourdes Patricia Ramirez**; Aurélie Jullien; **Frédéric Druon**; **Sandrine Ricaud**; **Dimitris N. Papadopoulos**; **Patrick Georges**, *Journal of Luminescence*, 2013, 133, pp. 276-281
- A8. [High peak-power stretcher-free femtosecond fiber amplifier using passive spatio-temporal coherent combining](#), **Louis Daniault**; **Marc Hanna**; **Dimitris N. Papadopoulos**; Yoann Zaouter; Eric Mottay; **Frédéric Druon**; **Patrick Georges**, *Optics Express*, 2012, 20 (19), pp. 26705
- A9. [Femtosecond Yb:CaGdAlO4 thin-disk oscillator](#), **Sandrine Ricaud**; Anael Jaffres; Katrin Wentsch; Akiko Suganuma; Bruno Viana; Pascal Loiseau; Birgit Weichelt; Marwan Abdou-Ahmed; Andreas Voss; Thomas Graf; Daniel Rytz; Clemens Hönninger; Eric Mottay; **Patrick Georges**; **Frédéric Druon**, *Optics Letters*, 2012, 37 (19), pp. 3984-3986
- A10. [Design of a high gain single stage and single pass Nd:YVO4 passive picosecond amplifier](#), **Xavier Délen**; **François Balembois**; **Patrick Georges**, *Journal of the Optical Society of America B*, 2012, 29 (9), pp. 2339-2346
- A11. [250 W single-crystal fiber Yb:YAG laser](#), **Xavier Délen**; Stefan Piehler; Julien Didierjean; Nicolas Aubry; Andreas Voss; Marwan Abdou Ahmed; Thomas Graf; **François Balembois**; **Patrick Georges**, *Optics Letters*, 2012, 37 (14), pp. 2898-2900
- A12. [Coherent dual-frequency emission of a vertical external-cavity semiconductor laser at the cesium D2 line](#), Fabiola Camargo; Jessica Barrientos-Barria; Ghaya Baili; Loïc Morvan; Daniel Dolfi; David Holleville; S. Guérandel; Isabelle Sagnes; **Patrick Georges**; **Gaëlle Lucas-Leclin**, *IEEE Photonics Technology Letters*, 2012, 24 (14), pp. 1218 - 1220

- A13. [Passive coherent combination of two ultrafast rod type fiber chirped pulse amplifiers](#), Yoann Zaouter; **Louis Daniault; Marc Hanna; Dimitris N. Papadopoulos**; Franck Morin; Clemens Hönniger; **Frédéric Druon**; Eric Mottay; **Patrick Georges**, *Optics Letters*, 2012, pp. 1460
- A14. [Effect of Yb³⁺ concentration on optical properties of Yb:CaF₂ transparent ceramics](#), **Sandrine Ricaud**; Andreas Lyberis; Adam Stevenson; Akiko Suganuma; **Frédéric Druon**; Frédéric Herbst; Daniel Vivien; Patrick Gredin; Michel Mortier, *Optical Materials*, 2012, 34 (6), pp. 965-968
- A15. [Frequency doubling and sum-frequency mixing operation at 469.2, 471, and 473 nm in Nd:YAG](#), Xu Bin; Patrice Camy; Jean-Louis Doualan; Braud Alain; Cai Zhiping; **François Balembos**; Richard Moncorgé, *Journal of the Optical Society of America B*, 2012, 29 (3), pp. 346-350
- A16. [Impact of spectral phase mismatch on femtosecond coherent beam combining systems](#), **Louis Daniault; Marc Hanna**; Laurent Lombard; Yoann Zaouter; Eric Mottay; Didier Goular; Pierre Bourdon; **Frédéric Druon; Patrick Georges**, *Optics Letters*, 2012, 37 (4), pp. 650-652
- A17. [Complete measurement of fiber modal content by wavefront analysis](#), **Mathieu Paurisse; Louis Lévêque; Marc Hanna; Frédéric Druon; Patrick Georges**, *Optics Express*, 2012, pp. 4074
- A18. [Diode-pumped regenerative Yb:SrF₂ amplifier](#), **Sandrine Ricaud; Patrick Georges**; Patrice Camy; Jean-Louis Doualan; Richard Moncorgé; Antoine Courjaud; Eric Mottay; **Frédéric Druon**, *Applied Physics B: Lasers and Optics*, 2012, 106 (4), pp. 823-827
- A19. * [New tool for glaucoma surgery assisted by femtosecond laser and optical coherence tomography](#), Karsten Plamann; Fatima Alahyane; Florent Aptel; **Masreshaw Bayleyegn**; Antoine Courjaud; Caroline Crotti; Florent Deloison; **Frédéric Druon; Arnaud Dubois; Patrick Georges; Marc Hanna**; Laura Kowalczyk; Jean-Marc Legeais; Tal Marciano; Eric Mottay; Michèle Savoldelli, *Ingénierie et Recherche BioMédicale (IRBM)*, 2012, 33 (2), pp. 42-47
- A20. [Passive coherent beam combining of quantum-cascade lasers with a Dammann grating](#), Guillaume Bloom; Christian Larat; Eric Lallier; Gaëlle Lehoucq; S. Bansropun; M.-S. Lee-Bouhours; Brigitte Loiseaux; Mathieu Carras; Xavier Marcadet; **Gaëlle Lucas-Leclin; Patrick Georges**, *Optics Letters*, 2011, 36 (19), pp. 3810-3812
- A21. [Yb:CaGdAlO₄ Thin-Disk Laser](#), **Sandrine Ricaud**; Anael Jaffres; Pascal Loiseau; Bruno Viana; Birgit Weichelt; Marwan Abdou-Ahmed; Andreas Voss; Thomas Graf; Daniel Rytz; Martin Delaigue; Eric Mottay; **Patrick Georges; Frédéric Druon**, *Optics Letters*, 2011, 36 (21), pp. 4134-4136
- A22. [Passive coherent beam combining of two femtosecond fiber chirped-pulse amplifiers](#), **Louis Daniault; Marc Hanna; Dimitris N. Papadopoulos**; Yoann Zaouter; Eric Mottay; **Frédéric Druon; Patrick Georges**, *Optics Letters*, 2011, 36 (20), pp. 4023-4025
- A23. [Low wavelength emission of Nd:doped lasers](#), **François Balembos; Marc Castaing; Emilie Héralut; Patrick Georges**, *Laser and Photonics Reviews*, 2011, 5 (5), pp. 659-676
- A24. [34 W continuous wave Nd:YAG single crystal fiber laser emitting at 946 nm](#), **Xavier Délen; Igor Martial**; Julien Didierjean; Nicolas Aubry; **Damien Sangla; François Balembos; Patrick Georges**, *Applied Physics B: Lasers and Optics*, 2011, 104 (1), pp. 1-4
- A25. [On Yb:CaF₂ and Yb:SrF₂ : Review of spectroscopic and thermal properties and their impact on femtosecond and high power laser performance](#), **Frédéric Druon; Sandrine Ricaud; Dimitris N. Papadopoulos**; Alain Pellegrina; Patrice Camy; Jean-Louis Doualan; Richard Moncorgé; Antoine Courjaud; Eric Mottay; **Patrick Georges**, *Optical Materials Express*, 2011, 1 (3), pp. 489-502
- A26. [Nd:YAG single-crystal fiber as high peak power amplifier of pulses below one nanosecond](#), **Igor Martial; François Balembos**; Julien Didierjean; **Patrick Georges**, *Optics Express*, 2011, 19 (12), pp. 11667
- A27. [Nd:YAG single-crystal fiber as power amplifier of pulses below one nanosecond](#), **Igor Martial**; Julien Didierjean; **François Balembos; Patrick Georges**, *Optics Express*, 2011, 19 (12), pp. 11667-11679
- A28. [Temporal cleaning of a high energy fiber-based ultrafast laser using cross-polarized wave generation](#), Yoann Zaouter; Patricia Ramirez; **Dimitris N. Papadopoulos**; Clemens Hönniger; **Marc Hanna; Frédéric Druon**; Eric Mottay; **Patrick Georges**, *Optics Letters*, 2011, 36 (10), pp. 1830
- A29. [High-power diode-pumped cryogenically-cooled Yb:CaF₂ laser with extremely low quantum defect](#), **Sandrine Ricaud; Dimitris N. Papadopoulos; Alain Pellegrina; François Balembos; Patrick Georges**; Antoine Courjaud; Patrice Camy; Jean-Louis Doualan; Richard Moncorgé; **Frédéric Druon**, *Optics Letters*, 2011, 36 (9), pp. 1602-1604
- A30. [High-power diode-pumped cryogenically cooled Yb:CaF₂ laser with extremely low quantum defect](#), **Sandrine Ricaud; Dimitris N. Papadopoulos; Alain Pellegrina; François Balembos; Patrick Georges**; Antoine Courjaud; Patrice Camy; Jean-Louis Doualan; Richard Moncorgé; **Frédéric Druon**, *Optics Letters*, 2011, 36 (9), pp. 1602-1605
- A31. [Volume Bragg grating external cavities for the passive phase locking of high-brightness diode laser arrays: theoretical and experimental study](#), **David Pabœuf**; Deepak Vijayakumar; Ole Bjarlin Jensen;

- Birgit Thestrup; Jun Lim; Slawomir Sujecki; Eric Larkins; **Gaëlle Lucas-Leclin; Patrick Georges**, *Journal of the Optical Society of America B*, 2011, 28 (5), pp. 1289-1299
- A32. [New materials for short-pulse amplifiers](#), **Frédéric Druon; François Balembois; Patrick Georges**, *IEEE Photonics Journal*, 2011, pp. 268
- A33. [Temperature dependence of the emission cross section of Nd:YVO4 around 1064 nm and consequences on laser operation](#), **Xavier Délen; François Balembois; Patrick Georges**, *Journal of the Optical Society of America B*, 2011, 28 (5), pp. 972
- A34. [A bimodal fluorescence and ultrasound probe to guide prostate biopsy](#), J. Boutet; M. Debourdeau; L. Herve; A. Laidevant; Jean-Marc Dinten; Didier Vray; A. Nguyen-Dinh; O. Messineo; **Patrick Georges; N. Grenier; Franck Morin; Marc Hanna; Frédéric Druon**, *IRBM*, 2011, pp. 123
- A35. [New materials for short-pulse amplifiers](#), **Frédéric Druon; François Balembois; Patrick Georges**, *IEEE Photonics Journal*, 2011, 3 (2), pp. 268-273
- A36. [Coherent beam combining of two femtosecond fiber chirped-pulse amplifiers](#), **Louis Daniault; Marc Hanna; Laurent Lombard; Yoann Zaouter; Eric Mottay; Didier Goular; Pierre Bourdon; Frédéric Druon; Patrick Georges**, *Optics Letters*, 2011, 36 (5), pp. 621
- A37. [Direct amplification of ultrashort pulses in \$\mu\$ -pulling down Yb:YAG single crystal fibers](#), Yoann Zaouter; **Igor Martial; Nicolas Aubry; Julien Didierjean; Clemens Hönninger; Eric Mottay; Frédéric Druon; Patrick Georges; François Balembois**, *Optics Letters*, 2011, 36 (5), pp. 748-750
- A38. [High-fidelity front-end for high-power, high temporal quality few-cycle lasers](#), Aurélie Jullien; X. Chen; A. Ricci; J.-P. Rousseau; Rodrigo Lopez-Martens; Dimitris N. Papadopoulos; Alain Pellegrina; **Patricia Ramirez; Frédéric Druon; Patrick Georges**, *Applied Physics B: Lasers and Optics*, 2011, 102 (4), pp. 769-774
- A39. [High power femtosecond chirped pulse amplification in large mode area photonic bandgap Bragg fibers](#), **Louis Daniault; Dmitry Gaponov; Marc Hanna; Sébastien Février; Philippe Roy; Frédéric Druon; Patrick Georges; M.E. Likhachev; M.Y. Salganskii; M.V. Yashkov**, *Applied Physics B: Lasers and Optics*, 2011, 103, pp. 615-621
- A40. [Narrow line width operation of a 980 nm gain guided tapered diode laser bar](#), Deepak Vijayakumar; Ole Bjarlin Jensen; Jessica Barrientos-Barria; **David Pabœuf; Gaëlle Lucas-Leclin; Birgit Thestrup; P.M. Petersen**, *Optics Express*, 2011, 19 (2), pp. 1131-1137
- A41. [Characteristics of laser operation at 1064 nm in Nd:YVO4 under diode pumping at 808 and 914 nm](#), **Xavier Délen; François Balembois; Patrick Georges**, *Journal of the Optical Society of America B*, 2011, 28 (1), pp. 52-57
- A42. [Line competition in an intracavity diode-pumped Yb:KYW laser operating at 981 nm](#), **François Balembois; Marc Castaing; Patrick Georges; Georges Thierry**, *Journal of the Optical Society of America B*, 2011, 28 (1), pp. 115-122
- A43. [Line competition in an intracavity diode-pumped Yb:KYW laser operating at 981 nm](#), **François Balembois; Marc Castaing; Patrick Georges; Thierry Georges**, *Journal of the Optical Society of America B*, 2011, 28 (1), pp. 52-57
- A44. [Broadband high energy diode pumped Yb:KYW multipass amplifier](#), **Dimitris N. Papadopoulos; Alain Pellegrina; Lourdes Patricia Ramirez; Patrick Georges; Frédéric Druon**, *Optics Letters*, 2011, 36 (19), pp. 3816-3818
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- CO137. [Lasers solides à base de transitions 3 niveaux du néodyme et de l'ytterbium, émission dans le bleu](#), **Marc Castaing; François Balembos; Patrick Georges**, *workshop, Journées Thématiques CMDO+ "Lasers Solides Visibles UV"*, Nov 2008, Palaiseau, France.
- CO138. [Compact and robust single-frequency diode-pumped vecsel at the cesium d2 line for atomic clocks](#), **Benjamin Cocquelin; Gaëlle Lucas-Leclin**; David Holleville; Noël Dimarcq; Isabelle Sagnes; Mikhaël Myara; Arnaud Garnache; **Patrick Georges**, *International Conference on Space Optics*, Oct 2008, Toulouse, France.
- CO139. [Amplification directe d'impulsions femtoseconde dans des fibres en regime fortement non lineaire](#), **Dimitris N. Papadopoulos**; Yoann Zaouter; **Marc Hanna; Frédéric Druon**; Eric Cormier; Eric Mottay; **Patrick Georges**, *Journées Nationales d'Optique Guidée*, Oct 2008, Lannion, France.
- CO140. [Amplification d'impulsions autour de 976 nm dans une fibre monomode dopee Ytterbium: modele numerique et etude experimentale](#), Aude Bouchier; Mikhaël Myara; **Gaëlle Lucas-Leclin; Patrick Georges**, *Journées Nationales d'Optique Guidée*, Oct 2008, Lannion, France.
- CO141. [Theoretical and Experimental Evaluation of a Wavelength-stabilized Talbot Cavity with a Volume Bragg Grating](#), **David Pabœuf; Gaëlle Lucas-Leclin**; Nicolas Michel; Michel Krakowski; **Patrick Georges**, *International Semiconductor Laser Conference*, Sep 2008, Sorrento, Italy.
- CO142. [Mesures simultanées de lentilles thermiques et de cartographies en température dans les matériaux lasers solides](#), **Julien Didierjean; Justine Boudeile; François Balembos; Frédéric Druon; Patrick Georges**, *Journées Thématiques CMDO+ "Techniques de mesures d'indice de réfraction linéaire et non-linéaire : spécificités et limitations"*, Sep 2008, Caen, France.
- CO143. [High-repetition rate operation of an acousto-optic programmable filter in a femtosecond fiber amplifier system](#), **Dimitris N. Papadopoulos; Marc Hanna; Frédéric Druon; Patrick Georges**, *Europhoton 2008*, Sep 2008, France.

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- CO145. [First cw laser at 440 nm based on the second harmonic generation of a Nd:GdVO4 laser emitting at 880 nm](#), **Marc Castaing; François Balembos; Patrick Georges**, *3rd EPS-QEOD europhoton conference*, Aug 2008, Paris, France.
- CO146. [High-power laser with Yb:YAG Single Crystal Fiber Grown by the Micro-Pulling Down technique](#), Damien Sangla; Nicolas Aubry; Julien Didierjean; Didier Perrodin; **François Balembos**; K. Lebbou; Alain Brenier; **Patrick Georges**; Jean-Marie Fourmigue; Olivier Tillement, *3rd EPS-QEOD Europhoton conference*, Aug 2008, Paris, France.
- CO147. [Intracavity pumping of Yb:S-FAP and second harmonic generation for laser emission at 492.5 nm](#), **Marc Castaing; François Balembos; Patrick Georges**; Thierry Georges; Kathleen Schaffers; John Tassano, *3rd EPS-QEOD europhoton conference*, Aug 2008, Paris, France.
- CO148. [Realization of hetero composite laser materials](#), Pierre Olivier Petit; Johan Petit; C. Boissiere; Philippe Goldner; Bruno Viana; **Julien Didierjean; François Balembos**, *3rd EPS-QEOD europhoton conference*, Aug 2008, Paris, France.
- CO149. [Single-frequency diode-pumped semiconductor laser tuned on a Cesium transition: frequency stability and linewidth study](#), **Benjamin Cocquelin; Gaëlle Lucas-Leclin; Patrick Georges**; Isabelle Sagnes; Arnaud Garnache; David Holleville, *Europhoton Solid state and Fiber coherent Light sources*, Aug 2008, Paris, France.
- CO150. [Yb-doped fluorite lasers under 100W diode pumping and in situ measurement of their thermal constants](#), **Justine Boudeile; Julien Didierjean**; Patrice Camy; Jean-Louis Doualan; Abdelmjid Benayad; V. Menard; Richard Moncorgé; **François Balembos; Frédéric Druon; Patrick Georges**, *3rd EPS-QEOD europhoton conference*, Aug 2008, Paris, France.
- CO151. [Laser emission from an Yb:YAG Single Crystal Fiber grown by the Micro-Pulling Down technique](#), Nicolas Aubry; **Damien Sangla**; Julien Didierjean; Didier Perrodin; Jean-Marie Fourmigué; **François Balembos**; Lebbou Kheirreddine; Alain Brenier; **Patrick Georges**; Olivier Tillement, *15th International Conference on Luminescence and Optical Spectroscopy of Condensed Matter (ICL'08)*, Jul 2008, Lyon, France.
- CO152. [FRET detection using Total Internal Reflection Fluorescence Lifetime Imaging Microscopy and supercontinuum excitation](#), Viviane Devauges; Pierre Blandin; Sandrine Leveque-Fort; Sandrine Lecart; **Frédéric Druon; Patrick Georges**; J.C Cossec; M.C. Pottier, *Symposium "Optical Microscopy in Good Shape" Network of European Neuroscience Institutes*, Jun 2008, Paris, France.
- CO153. [Direct Pulse Compression of Yb-doped Fiber Amplified Pulses by use of a Dazzler](#), **Dimitris N. Papadopoulos; Marc Hanna; Frédéric Druon; Patrick Georges**, *Conference on Lasers and Electro-Optics (CLEO US) 2008*, May 2008, San José, United States.
- CO154. [High-Energy Direct Amplification of Femtosecond Pulses in the Nonlinear Regime](#), **Dimitris N. Papadopoulos; Marc Hanna; Frédéric Druon; Patrick Georges**; Yoann Zaouter; Eric Cormier; Eric Mottay, *Conference on Lasers and Electro-Optics (CLEO US) 2008*, May 2008, San José, United States.
- CO155. [First demonstration of laser emission from an Yb:YAG Single Crystal Fiber grown by the Micro-Pulling Down technique](#), **Damien Sangla**; Nicolas Aubry; Julien Didierjean; Didier Perrodin; **François Balembos**; K. Lebbou; Alain Brenier; **Patrick Georges**; Jean-Marie Fourmigue; Olivier Tillement, *Conference on Lasers and Electro-Optics (CLEO US) 2008*, May 2008, San José, United States.
- CO156. [First indirectly diode pumped Yb:SFAP laser, reaching the watt level at 985 nm](#), **Marc Castaing; François Balembos; Patrick Georges**; Thierry Georges; Kathleen Schaffers; John Tassano, *Conference on Lasers and Electro-Optics (CLEO US) 2008*, May 2008, San José, United States.
- CO157. [FRET detection in the plasma membrane using Total Internal Reflection Fluorescence Lifetime Imaging Microscopy](#), Pierre Blandin; Sandrine Leveque-Fort; Sandrine Lecart; **Frédéric Druon; Patrick Georges**; J.C Cossec; M.C. Pottier; Zsolt Lenkei, *Conference on Lasers and Electro-Optics (CLEO US) 2008*, May 2008, San José, United States.
- CO158. [Low-repetition-rate femtosecond operation in long cavity modelocked Yb:CALGO laser](#), **Justine Boudeile; Dimitris N. Papadopoulos; Frédéric Druon; Marc Hanna; Patrick Georges**; Pierre-Olivier Petit; Philippe Goldner; Bruno Viana, *Conference on Lasers and Electro-Optics (CLEO US) 2008*, May 2008, San José, United States.
- CO159. [Efficient Coherent Combining and Wavelength Stabilization of Tapered Lasers with a Volume Bragg Grating](#), **David Pabœuf; Olivier Braun; Gaëlle Lucas-Leclin**; Nicolas Michel; Michel Krakowski; **Patrick Georges**, *Conference on Lasers and Electro-Optics (CLEO US) 2008*, May 2008, San José, United States.

- CO160. [High energy direct amplification of femtosecond pulse in a highly non-linear fiber amplifier](#), Yoann Zaouter; J. Boulet; L. Huang; C. Aguegaray; **Dimitris N. Papadopoulos; Marc Hanna; Frédéric Druon**; Eric Mottay; **Patrick Georges**; Eric Cormier, *Advanced Solid State Photonics 2008 (ASSP)*, Jan 2008, Nara, Japan.
- CO161. [High-energy pulse generation using stretcher-free fiber nonlinear amplifiers](#), **Dimitris N. Papadopoulos; Marc Hanna; Frédéric Druon; Patrick Georges**; Yoann Zaouter; Eric Cormier; Eric Mottay, *Advanced Solid State Photonics 2008 (ASSP)*, Jan 2008, Nara, Japan.
- CO162. [Micro-pulling down Nd:YAG single crystal fibers for high power linearly polarized CW and Q-Switched lasers](#), **Damien Sangla**; Julien Didierjean; Nicolas Aubry; Didier Perrodin; **François Balembois**; K. Lebbou; Alain Brenier; **Patrick Georges**; Jean-Marie Fourmigue; Olivier Tillement, *Advanced Solid State Photonics 2008 (ASSP)*, Jan 2008, Nara, Japan.
- CO163. [Yb:SFAP crystal, intracavity and indirectly diode-pumped at 914 nm for a cw emission à 985 nm](#), **Marc Castaing; François Balembois; Patrick Georges**; Thierry Georges; Kathleen Schaffers, *Advanced Solid State Photonics 2008 (ASSP)*, Jan 2008, Nara, Japan.
- CO164. [Amplification d'impulsions autour de 976 nm dans une fibre monomode dopee ytterbium: modèle numerique et etude expérimentale](#), Aude Bouchier; Mikhaël Myara; **Gaëlle Lucas-Leclin; Patrick Georges**, *Journées Nationales d'Optique Guidée*, 2008, Lannion, France

HABILITATIONS

- HDR1. [Sources laser femtoseconde à fibre optique](#), **Marc Hanna**, Université Paris Sud - Paris XI, Mar. 2013. French
- HDR2. [Lasers à impulsions ultra-brèves pompés par diode](#), **Frédéric Druon**, Université Paris Sud - Paris XI, May. 2008. French

DOCTORAL THESES

- T1. [Few-cycle OPCPA laser chain](#), **Lourdes Patricia Ramirez**, Université Paris Sud - Paris XI, Mar. 2013. English
- T2. [Combinaison cohérente d'amplificateurs à fibre en régime femtoseconde](#), **Louis Daniault**, Université Paris Sud - Paris XI, Dec. 2012. French
- T3. [Lasers femtoseconde de forte puissance moyenne à base de cristaux dopés à l'ytterbium](#), **Sandrine Ricaud**, Université Paris Sud - Paris XI, Dec. 2012. French
- T4. [Combinaison cohérente de lasers à cascade quantique](#), **Guillaume Bloom**, Université Paris Sud - Paris XI, Feb. 2012. French
- T5. [Systèmes laser pompés par diode à fibres cristallines : oscillateurs Er : yAG, amplificateurs Nd : yAG](#), **Igor Martial**, Université Paris Sud - Paris XI, Dec. 2011. French
- T6. [Conception d'une source à impulsions courtes à 1600 nm à fibres dopées erbium. Application à la greffe de cornée.](#), **Franck Morin**, Université Paris Sud - Paris XI, Dec. 2010. French
- T7. [Correction active du profil spatial de faisceaux amplifiés dans des fibres multimodes et multi-coeurs.](#), **Mathieu Paurisse**, Université Paris Sud - Paris XI, Dec. 2010. French
- T8. [Nouveaux concepts pour des lasers de puissance : fibres cristallines dopées Ytterbium et pompage direct de cristaux dopés Néodyme](#), **Damien Sangla**, Physique et Astrophysique. Université Claude Bernard - Lyon I, Dec. 2009. French
- T9. [Combinaison cohérente de diodes laser de luminance élevée en cavité externe](#), **David Pabœuf**, optique et laser. Université Paris Sud - Paris XI, Nov. 2009. French
- T10. [Développement de lasers à trois niveaux pompés par diode dans les cristaux dopés néodyme et ytterbium](#), **Marc Castaing**, Physique. Université Paris Sud - Paris XI, Oct. 2009. French
- T11. [Laser à fibre multimode avec remise en forme de faisceau par diffusion Brillouin stimulée](#), **Bastien Steinhäusser**, Physique. Université Paris Sud - Paris XI, Juil. 2009. French
- T12. [Lasers à semiconducteurs pompés optiquement : Conception et Caractérisation d'une source monomode pour la manipulation des atomes de Césium](#), **Benjamin Cocquelin**, Optique et Laser. Université Paris Sud - Paris XI, Feb. 2009. French
- T13. [Développement de nouvelles sources laser femtosecondes à base de cristaux dopés ytterbium et pompés par diode laser](#), **Justine Boudeile**, Université Paris Sud - Paris XI, Nov. 2008. French
- T14. [Développement instrumental pour la microscopie de fluorescence résolue en temps: applications biomédicales](#), **Pierre Blandin**, Université Paris Sud - Paris XI, Nov. 2008. French

SEMINAR PRESENTATIONS

- S1. [Coherent combining of ultrashort ytterbium fiber and bulk amplifiers](#), **Patrick Georges**, Séminaire à l'ETH de Zurich (Suisse), Dec. 2012
- S2. [The BRIDLE Project: High Brilliance Diode Lasers for Industrial Applications](#), Stephen Bull; Götz Ebert; **Patrick Georges**; Eric Larkins; **Gaëlle Lucas-Leclin**; Thomas Brand; Andreas Unger; Martin Traub; S. Hengesbach; Petteri Uusimaa; Ville Vilokkinen; Paul Crump; Thomas Rataj; Eickard Deichsel, Poster The Celebration of the 50th Anniversary of the Laser Diode University of Warwick, UK, 2012
- S3. [Diode pumped laser sources with single crystal fibers](#), **François Balembos**, 2011. IFSW, Stuttgart, Allemagne, 11 Mai 2011
- S4. [Lasers à impulsions ultracourtes haute cadence : état de l'art et perspectives](#), **Patrick Georges**, Laboratoire Louis Leprince Ringuet, Ecole Polytechnique, Palaiseau, 15 Mars 2010
- S5. [Wavefront pre-compensation in multimode fiber amplifiers](#), **Mathieu Paurisse**, Jena, Allemagne, Friedrich-Schiller-University, Institute of Applied Physics, 14 Juin 2010
- S6. [Generation and amplification of ultrashort pulses in Yb doped materials](#), **Patrick Georges**, Zurich (Suisse), Ultrafast Laser Physics, ETH, 22 janvier 2009
- S7. [Développement de lasers à fibres cristallines dopées Néodyme et Ytterbium](#), **Damien Sangla**, Séminaire fait à l'Institut d'Optique Graduate School, 21 février 2008
- S8. [Sources laser femtoseconde fibrées à haute énergie](#), Marc Hanna, société Draka, Marcoussis (91), 13 Novembre 2008

REPUTATION AND ACADEMIC ATTRACTIVITY

PRIZES AND AWARDS

Fredéric Druon

- Prix Jean Jerphagnon en 2011

Pierre Blandin,

- Prix Perrissin-Pirasset en Sciences de la Chancellerie des Universités de Paris en 2009, thèse en collaboration entre le LCF et l'ISMO.

Christophe Gerhard

- prix Georg-Simon-Ohm-Award from the German Physics Society en 2009 pour sa "Diplom" thesis

INTERACTIONS WITH SOCIAL, ECONOMIC AND CULTURAL ENVIRONMENT

DISSEMINATION OF SCIENTIFIC INFORMATION

- DI1. [Lasers accordables](#), **François Balembos**, *Techniques de l'Ingenieur*, 2012, pp. E 6480
- DI2. [Sources laser à fibre et applications](#), **Marc Hanna**, *Techniques de l'Ingenieur*, 2012, pp. E6450
- DI3. [Lasers femtosecondes ultra-intenses : grands projets et applications](#), **Patrick Georges**, Conférence dans le cadre des 50 ans des lasers, Université de Lille, CERLA-PHLAM, 8 Octobre 2010
- DI4. [Lasers solides de puissance continus et impulsionnels : état de l'art et applications](#), **Patrick Georges**, Cycle Physique au printemps 2010, cinquantenaire du laser, Lyon, SFP et UdPPC, 17 Mars 2010

SERVICE TO THE SCIENTIFIC COMMUNITY AT LARGE

François Balembos,

- Membre du comité de pilotage du réseau CMDO+ (cristaux massifs, micro-nano structures et dispositifs pour l'optique) (2010 à 2013)

Frédéric Druon,

- Membre du comité de pilotage du réseau FEMTO (Réseau des Technologies Femtosecondes) depuis octobre 2010 (2010 à 2013)

Patrick Georges,

- Membre du Laser Advisory committee (LAC) XFEL-DESY Hambourg (Allemagne) (2012 et 2013)
- Program Chair, Cleo Europe, Munich (2013)
- co-responsable du "Pôle Lumière Extrême" du Réseau Thématique de Recherche Avancée "Triangle de la Physique"
- Membre du comité de sélection de l'ANR ASTRID (2011 à 2013)
- Membre du bureau du Thème 3 du Labex PALM (Dynamique ultra-rapide : des sources de rayonnement aux réponses multi-échelles) (2011 à 2013)
- Chair, "Solid-State Lasers" committee, Cleo Europe, Munich (2011)
- Membre du groupe technique d'évaluation du Département Optique théorique et appliquée (DOTA), Unité «Haute Résolution Angulaire» (HRA) de l'ONERA Palaiseau, Avril 2010
- Expert pour l'évaluation AERES du Laboratoire de Photonique d'Angers (LPHIA), décembre 2010
- Membre d'un groupe d'expertise mandaté par le département CNRS ST2I pour mener une réflexion sur "les technologies photoniques émergentes" (2008-2009)
- Evaluation à mi-parcours du laboratoire XLIM de Limoges suite à l'intégration d'une nouvelle équipe (SIC) 30 Mars 2009
- Membre du comité de sélection de l'ANR BLANC Physique CDS4 puis SIMI4 (2009 à 2011)
- Membre du comité de pilotage du Réseau des Cristaux Massifs et Dispositifs pour l'Optique (CMDO) Mission des Ressources Technologiques, CNRS (2008 et 2009)
- Membre du comité de pilotage du Réseau des Technologies Femtosecondes (RTF) de la Mission des Ressources Technologiques (MRCT) du CNRS (2008 et 2009)
- General Chair de la conférence internationale : Europhotons "Solid state, fiber and waveguided light sources", Septembre 2008, Paris (2008)
- Expert scientifique pour la Mission pour la Recherche et l'Innovation Scientifique (MRIS) de la DGA (2008)

PATENTS

- B1. Dispositif et procédé passif de combinaison cohérente d'une pluralité d'amplificateurs optiques, **D Papadopoulos, M. Hanna, L Daniault**, dépôt FR20110056294 du 11 juillet 2011, publication FR2977989, extension WO2013007945
- B2. Dispositif et procédé passif de combinaison cohérente de deux faisceaux optiques amplifiés et/ou élargis spectralement, **D Papadopoulos, M. Hanna, Y Zaouter, L Daniault, F. Druon**, dépôt FR20110056292 du 11 juillet 2011, publication FR2977988, extension WO2013007954
- B3. Module à gain laser et méthode de fabrication d'un tel module, N Aubry, D Perrodin, JM Fourmigue, J didierjean, I Martial, **F. Balembos**, A El Hassouni, dépôt FR20100060675 du 20 décembre 2010, publication FR2969402, extension WO2012080308

- B4. Amplificateur Optique et laser incorporant un tel amplificateur, **F Druon, S Ricaud**, A Courjaud, P Camy, JL Doualan, dépôt FR20100056650 du 18 aout 2010, publication FR2963990, extensions EP2606540, US20130142208, WO2012022915
- B5. Laser impulsionnel à fibre optique pour impulsions sub-picoseconde de haute énergie dans la bande L et outil laser pour chirurgie ophtalmique, **F. Morin, M. Hanna, F. Druon, P. Georges**, dépôt FR20080058687 du 17 décembre 2008, publication FR2939974, extensions EP2366214, JP2012512539, WO2010076511, US20110306954
- B6. Système amplificateur optique pour laser impulsionnel a base d'un milieu a gain guidant et laser impulsionnel le comprenant, **Balembois F**, Didierjean J, **Georges P, Sangla D**, dépôt FR20080057040 du 16 octobre 2008, publication FR2937470, extensions EP2345117, US20110200063, WO2010043822

OPTICAL SYSTEMS AND
COMPONENTS

SYSTÈMES ET COMPOSANTS OPTIQUES

(SCOP)

SUMMARY FOR THE SCOP GROUP

The reporting period is 1st January 2008 – 30th June 2013. This table summarizes the current (30th June 2013) and cumulative (1st January 2008 – 30th June 2013) data.

Faculty, research faculty (current)	10	Engineers, technicians (current)	2
Non-permanent research scientists (cumul.)	9	Doctoral students (current)	7
Research interns (> 3 months, cumulative)	0	Peer reviewed journal articles (cumulative)	99
Conference presentations (cumulative)	115	Seminars (cumulative)	3
of which invited conf. presentations (cumul.)	21	Doctoral theses and habilitations defended (cumul.)	13
Patents applications filed (cumulative)	6	Book chapters (cumulative)	0

SCIENTIFIC PUBLICATIONS

(*) Stars indicate publications common to several groups of LCF or to LCF and another laboratory of Institut d'Optique (LP2N in Bordeaux from January 2011, Laboratoire Hubert Curien in Saint-Etienne). They are listed several times as appropriate.

ARTICLES IN INTERNATIONAL PEER-REVIEWED JOURNALS

- A1. [Maximum likelihood method for calibration of Mueller polarimeters in reflection configuration](#), Haofeng Hu; Enric Garcia-Caurel; **Guillaume Anna**; **François Goudail**, *Applied Optics*, 2013, 52, pp. 6350
- A2. [Distributed Kalman filtering compared to Fourier domain preconditioned conjugate gradient for laser guide star tomography on extremely large telescopes](#), Luc Gilles; Paolo Massioni; **Caroline Kulcsar**; **Henri-François Raynaud**; Brent Ellerbroek, *Journal of the Optical Society of America A*, 2013, 30 (5), pp. 898-909
- A3. [How to focus an attosecond pulse](#), **Charles Bourassin-Bouchet**; Matthias Maximilian Mang; **Franck Delmotte**; **Pierre Chavel**; **Sébastien De Rossi**, *Optics Express*, 2013, 21, pp. 2506-2520
- A4. [spatial angular multiplexing for enlarging the detected area in off-axis digital holography](#), Zhonghong Ma; Yong Yang; Hongchen Zhai; **Pierre Chavel**, *Optics Letters*, 2013, 38 (1), pp. 49-51
- A5. [Optimal configurations for active polarimetric imaging systems in the presence of different sources of Poisson shot noise](#), **Guillaume Anna**; **François Goudail**; Daniel Dolfi, *Optics Communications*, 2013, pp. 116-123
- A6. [X-ray properties and interface study of B4C/Mo and B4C/Mo2C periodic multilayers](#), **Fadi Choueikani**; **Françoise Bridou**; B. Lagarde; **Evgueni Meltchakov**; François Polack; P. Mercere; **Franck Delmotte**, *Applied Physics A: Materials Science and Processing*, 2013, 111 (1), pp. 191-198
- A7. * [Optical metrology for immersed diffractive multifocal ophthalmic intracorneal lenses](#), Patrice Tankam; **Thierry Lépine**; **Fannie Castignoles**; **Pierre Chavel**, *Journal of the European Optical Society - Rapid Publications*, 2012, 7, pp. 12037
- A8. [Design and fabrication of X-ray non-periodic multilayer mirrors: Apodization and shaping of their spectral response](#), **Françoise Bridou**; **Franck Delmotte**; Philippe Troussel; Bertrand Villette, *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, 2012, 680, pp. 69-74
- A9. [Angular acceptance analysis of an infrared focal plane array with a built-in stationary Fourier transform spectrometer](#), Frédéric Gillard; Yann Ferrec; Nicolas Guérineau; Sylvain Rommeluère; **Jean Taboury**; **Pierre Chavel**, *Journal of the Optical Society of America A*, 2012, 29 (6), pp. 936-944
- A10. [The TPLUS project : a table-top tunable parametric UV radiation source](#), Jean-Michel André; Grégory Turk; Karine Le Guen; Philippe Jonnard; **Franck Delmotte**; **Sébastien De Rossi**; **Arnaud Jérôme**; **Anne-Lise Coutrot**, *Journal of Physics: Conference Series*, 2012, 357 (1), pp. 012039
- A11. [Compact infrared cryogenic wafer-level camera: design and experimental validation](#), Florence De La Barrière; Guillaume Druart; Nicolas Guérineau; Gilles Lasfargues; Manuel Fendler; Nicolas Lhermet; **Jean Taboury**, *Applied Optics*, 2012, 51 (8), pp. 1049-1060
- A12. [Random phase mask in a filamentation regime: application to the localization of point sources](#), Florence De La Barrière; Guillaume Druart; Nicolas Guérineau; Yann Ferrec; **Jean Taboury**; Jérôme Primot, *Optics Letters*, 2012, 36 (5), pp. 684-686
- A13. [Shaping of single-cycle sub-50-attosecond pulses with multilayer mirrors](#), **Charles Bourassin-Bouchet**; **Sébastien De Rossi**; **Jihuan Wang**; **Evgueni Meltchakov**; Angelo Giglia; Nicola Mahne; Stefano Nannarone; **Franck Delmotte**, *New Journal of Physics*, 2012, 14, pp. 023040

- A14. * [Dark-Field hyperlens exploiting a planar fan of tips](#), **Henri Benisty; François Goudail**, *Journal of the Optical Society of America B*, 2012, 29 (9), pp. 2595-2602
- A15. [Fully tunable active polarization imager for contrast enhancement and partial polarimetry](#), **Guillaume Anna; Hervé Sauer; François Goudail**; Daniel Dolfi, *Applied Optics*, 2012, 51 (21), pp. 5302-5309
- A16. [General State Contrast Imaging : an optimized polarimetric imaging modality insensitive to spatial intensity fluctuations](#), **Guillaume Anna; François Goudail**; Daniel Dolfi, *Journal of the Optical Society of America B*, 2012, 29 (6), pp. 892-900
- A17. [Joint contrast optimization and object segmentation in active polarimetric images](#), **Guillaume Anna; Nicolas Bertaux; Frédéric Galland; François Goudail**; Daniel Dolfi, *Optics Letters*, 2012, 37 (16), pp. 3321-3323
- A18. [Molecular frame photoemission in dissociative ionization of H-2 and D-2 induced by high harmonic generation femtosecond XUV pulses](#), Pierre Billaud; M. Geleoc; Y. J. Picard; K. Veyrinas; Jean-François Hergott; S. Marggi Poullain; P. Breger; Thierry Ruchon; Marc Roulliy; **Franck Delmotte**; F. Lepetit; A. Huetz; Bertrand Carre; Danielle Doweck, *Journal of Physics B: Atomic, Molecular and Optical Physics*, 2012, 45, pp. 194013
- A19. [Noise sources in Imaging Static Fourier Transform Spectrometers](#), Yann Ferrec; **Noura Ayari-Matallah; Pierre Chavel; François Goudail; Hervé Sauer; Jean Taboury**; Jean-Claude Fontanella; Christophe Coudrain; Jérôme Primot, *Optical Engineering*, 2012, 51 (11), pp. 111716
- A20. [On the influence of noise statistics on polarimetric contrast optimization](#), **Guillaume Anna; François Goudail; Pierre Chavel**; Daniel Dolfi, *Applied Optics*, 2012, 51 (8), pp. 1178-1187
- A21. [Optimal Mueller matrix estimation in the presence of additive Gaussian or Poisson shot noise](#), **Guillaume Anna; François Goudail**, *Optics Express*, 2012, 20 (19), pp. 21331-21340
- A22. [Hybrid magneto-optical mode converter made with a magnetic nanoparticles-doped SiO₂/ZrO₂ layer coated on an ion-exchanged glass waveguide](#), Hadi Amata; Francois Royer; **Fadi Choueikani**; Damien Jamon; François Parsy; Jean-Emmanuel Broquin; Sophie Neveu; Jean-Jacques Rousseau, *Applied Physics Letters*, 2011, 99, pp. 251108
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- CO16. [Miroirs multicouches pour les impulsions attosecondes](#), Sébastien De Rossi; Charles Bourassin-Bouchet; Evgueni Meltchakov; Franck Delmotte; Zolt Diveki; Diego Guenet; Thierry Ruchon; Pascal Salières; Angelo Giglia; Nicola Mahne; Stephano Nanaronne, *SFO : journée club couches minces optiques 2011*, Jan 2011, Palaiseau, France.
- CO17. [Systèmes multicouches réalisés par pulvérisation ionique à base d'Aluminium dans le domaine Extrême UV pour l'imagerie solaire](#), Ahmed Ziani; Arnaud Jérôme; Evgueni Meltchakov; Françoise Bridou; Franck Delmotte; Marc Roulliay, *SFO : journée club couches minces optiques 2011*, Jan 2011, Palaiseau, France.
- CO18. [Mo/B4C and Mo2C/B4C Multilayer Stacks for the Achievement of 2D Photonic Crystals with High Efficiency Between 1 and 5 keV](#), Fadi Choueikani; Franck Delmotte; Françoise Bridou; Bruno Lagarde; François Polack, *Soleil Users Meeting 2011*, Jan 2011, Palaiseau, France.
- CO19. [Spatio-temporal manipulation of attosecond pulses with mirrors](#), Charles Bourassin-Bouchet; Zolt Diveki; Diego Guenet; Elisabeth English; Sébastien De Rossi; Thierry Ruchon; Evgueni Meltchakov; Pierre Chavel; Franck Delmotte; Pascal Salières, *Ecole XFEL*, Oct 2010, Hyères, France.
- CO20. [Al-based multilayer optics for space applications in EUV range](#), Evgueni Meltchakov; Frédéric Auchère; X. Zhang; Franck Delmotte, *X-ray Optics Workshop 2010*, Sep 2010, Chernogolovka, Russian Federation.
- CO21. *[Miroirs polarisants et non polarisants dans l'UV lointain pour la raie Lyman- \$\alpha\$ de l'Hydrogène \(\$\lambda=121,6\$ nm\)](#), Bridou Françoise; Mireille Cuniot-Ponsard ; Jean-Michel, Desvignes, *Colloque UVX 2010*, Sep 2010, Porquerolles, France.
- CO22. *[Effet électro-optique dans le niobate de strontium barium \(\$Sr_xBa_{1-x}Nb_2O_6\$ \) en film mince](#), Mireille Cuniot-Ponsard; Jean-Michel Desvignes; Alain Bellemain; Françoise Bridou, *12èmes Journées de la Matière Condensée (JMC12)*, Aug 2010, Troyes, France.
- CO23. [Influence of geometric aberrations on XUV attosecond pulses](#), Charles Bourassin-Bouchet; Sébastien De Rossi; Franck Delmotte; Pierre Chavel, *The 37th International conference on Vacuum Ultraviolet and X-ray Physics*, Jul 2010, Vancouver, Canada.
- CO24. [Optical metrology of multilayer mirrors for attosecond light pulse](#), Sébastien De Rossi; Charles Bourassin-Bouchet; Franck Delmotte; Evgueni Meltchakov; Z. Diveki; Diego Guenet; Thierry Ruchon; Pascal Salières; Bertrand Carre; Angelo Giglia; Nicola Mahne; Stephano Nanaronne, *The 37th International conference on Vacuum Ultraviolet and X-ray Physics*, Jul 2010, Vancouver, Canada.
- CO25. [spatio-temporal manipulation of attosecond pulses with mirrors](#), Charles Bourassin-Bouchet; Sébastien De Rossi; Franck Delmotte; Evgueni Meltchakov; Z. Diveki; Diego Guenet; Thierry Ruchon; Pascal Salières; Bertrand Carre, *The 37th International conference on Vacuum Ultraviolet and X-ray Physics*, Jul 2010, Vancouver, Canada.
- CO26. [A Review of Some Anisotropy Properties of Totally Unpolarized Light](#), Philippe Réfrégier; Antoine Roueff; François Goudail; Jani Tervo, *5th EOS Topical Meeting on Advanced Imaging Techniques (AIT 2010)*, Jun 2010, Engelberg, Switzerland.
- CO27. [Attosecond pulse manipulations with XUV mirrors](#), Zolt Diveki; Elisabeth English; Diego Guenet; Pascal Salières; Thierry Ruchon; Charles Bourassin-Bouchet; Sébastien De Rossi; Franck Delmotte, *Advances in Strong-Field and Attosecond Physics*, Jun 2010, London, United Kingdom.
- CO28. *[Simultaneous characterization of the electro-optic, inverse-piezoelectric, and electro-absorptive effects in \(\$Sr, Ba\$ \) \$Nb_2O_6\$ \(SBN\) thin films](#), Mireille Cuniot-Ponsard; Jean-Michel Desvignes; Alain Bellemain; Françoise Bridou, *International Symposium on Integrated Functionalities (ISIF 2010)*, Jun 2010, Puerto Rico, United States.
- CO29. [Aberrations et durée d'impulsion dans le domaine attoseconde](#), Charles Bourassin-Bouchet; Sébastien De Rossi; Franck Delmotte; Pierre Chavel, *Ecole thématique "sources laser et photoniques SLP2010" du réseau Algérien d'optique NOUR21*, Mar 2010, Oran, Algeria.
- CO30. [Al-based multilayers for space applications in EUV](#), Evgueni Meltchakov; Frédéric Auchère; Xueyan Zhang; Marc Roulliay; Charles Bourassin-Bouchet; Arnaud Jérôme; Sébastien De Rossi; Françoise Bridou; Françoise Varniere; Franck Delmotte, *The 10th International Conference on the Physics of X-Ray Multilayer Structures*, Feb 2010, Big Sky Resort (Montana), United States.
- CO31. [In-depth and surface characterization of Al/Mo/SiC multilayers](#), P. Jonnard; H. Hu; Jean-Michel André; Franck Delmotte; Evgueni Meltchakov; Anouk Galtayries, *The 10th International Conference on the Physics of X-Ray Multilayer Structures*, Feb 2010, Big Sky Resort (Montana), United States.
- CO32. [Multilayer mirrors for attosecond pulses](#), Charles Bourassin-Bouchet; Sébastien De Rossi; Franck Delmotte; Françoise Bridou; Yves Ménesguen, *The 10th International Conference on the Physics of X-Ray Multilayer Structures*, Feb 2010, Big Sky Resort (Montana), United States.
- CO33. [Supermirrors for 1-10 keV for high resolution X-ray Imaging plasma diagnostic](#), Philippe Troussel; Hélène Maury; Rudolph Rosch; Françoise Bridou; Evgueni Meltchakov; Franck Delmotte, *The 10th International Conference on the Physics of X-Ray Multilayer Structures*, Feb 2010, Big Sky Resort (Montana), United States.

- CO34. [Développement de miroirs multicouches à base d'Aluminium pour l'extrême ultraviolet](#), **Evgueni Meltchakov**, *GDR Applix*, Oct 2009, La Colle-sur-Loup, France.
- CO35. [Éléments de cohérence optique](#), **Sébastien De Rossi**, *GDR Applix*, Oct 2009, la Colle-sur-Loup, France.
- CO36. [Miroirs multicouches aperiodiques à large bande passante \(2-10 keV\) pour diagnostics de plasmas](#), **Françoise Bridou**, *GDR applix*, Oct 2009, la Colle-sur-Loup, France.
- CO37. [Miroirs multicouches pour le transport, la compression et la focalisation d'impulsions attosecondes](#), **Charles Bourassin-Bouchet**, *GDR Applix*, Oct 2009, La Colle-sur-Loup, France.
- CO38. [Spatial coherence: interferometer design and the localisation of interference fringes](#), **Pierre Chavel; Jean Taboury; Frédéric Gillard; Nicolas Guérineau**, *International Topical Meeting "Correlation Optics 2009"*, Sep 2009, Chernivtsi, Ukraine.
- CO39. * [Miroirs polarisants et non polarisants dans l'UV lointain pour la raie Lyman- \$\alpha\$ de l'Hydrogène \(\$\lambda=121.6\$ nm\)](#), **Françoise Bridou; Mireille Cuniot-Ponsard; Jean-Michel Desvignes**, *Colloque UVX 2010*, Sep 2009, Porquerolles, France.
- CO40. [Multilayer mirrors for attosecond pulses](#), **Charles Bourassin-Bouchet; Sébastien De Rossi; Franck Delmotte; Evgueni Meltchakov; Françoise Bridou; Yves Ménesguen**, *UltraFast Optics (UFO VII) and High Field Short Wavelength (HFSW XIII)*, Aug 2009, Arcachon, France.
- CO41. [Minimisation de l'influence de la contribution passive dans les imageurs actif de degré de polarisation](#), **Arnaud Bénérière; François Goudail; Mehdi Alouini; Daniel Dolfi**, *Horizons de l'Optique*, Jul 2009, Lille, France.
- CO42. * [Niobate en films minces pour application électro-optiques](#), **Mireille Cuniot-Ponsard; Jean-Michel Desvignes; Alain Bellemain; Françoise Bridou**, *Congrès général de la Société Française de Physique - Ecole Polytechnique*, Jul 2009, Palaiseau, France.
- CO43. [Estimation et détection dans des images de degré de polarisation en présence d'illumination non uniforme](#), **Arnaud Bénérière; François Goudail; Mehdi Alouini; Daniel Dolfi**, *Journées Imagerie Non Conventiionnelle GDR ISIS*, 2009, Paris, France.
- CO44. [Optimizing contrast in active polarimetric images](#), **François Goudail; Arnaud Bénérière; Mehdi Alouini; Daniel Dolfi**, *4th EOS Topical Meeting on Advanced Imaging Techniques*, 2009, Jena, Germany.
- CO45. [Multicouches à base d'Aluminium pour l'EUV](#), **Evgueni Meltchakov; Christophe Hecquet; Marc Roulliy; Arnaud Jérôme; Françoise Bridou; Françoise Varniere; Marie-Françoise Ravet; Franck Delmotte**, *9e Colloque sur les Sources Cohérentes et Incohérentes UV, VUV et X : Applications et Développements Récents*, Oct 2008, Dourdan, France.
- CO46. [L'outil interférométrique pour l'extrême ultraviolet](#), **Sébastien De Rossi**, *GDR APPLIX*, Oct 2008, Dourdan, France.
- CO47. [Multilayer optics development for space, laser and synchrotron applications in EUV range](#), **Evgueni Meltchakov; Christophe Hecquet; Franck Delmotte; Arnaud Jérôme; Françoise Bridou; Françoise Varniere; Marie-Françoise Ravet-Krill**, *XVII International Synchrotron Radiation Conference SR-2008*, Jun 2008, Novosibirsk, Russian Federation.
- CO48. * [Investigation of polarizing mirrors at 121.6 nm](#), **Françoise Bridou; Mireille Cuniot-Ponsard; Jean-Michel Desvignes**, *First SMESE workshop*, Mar 2008, Orsay, France.
- CO49. [Développement de nouvelles multicouches, applications en imagerie solaire EUV](#), **Marie-Françoise Ravet-Krill**, *Journée "Couches Minces Optiques"*, Feb 2008, Marseille, France.
- CO50. [Effect of B4C diffusion barrier on the thermal behavior of Sc/Si multilayers](#), **Hélène Maury; Philippe Jonnard; Karine Le Guen; Jean-Michel André; Franck Delmotte; Françoise Bridou; Marie-Françoise Ravet-Krill; Stephano Nanaronne; Nicola Mahne**, *The 9th International Conference on the Physics of X-Ray Multilayer Structures*, Feb 2008, Big Sky Resort, United States.
- CO51. [Improved spectral purity of EUV multilayer mirrors with optimized SiO₂ top layer](#), **Franck Delmotte; Aurélie Hardouin; Marie-Françoise Ravet-Krill; Françoise Bridou; Jérôme Arnaud; Françoise Varniere; Sébastien Hedacq; Benoît Albertin**, *The 9th International Conference on the Physics of X-Ray Multilayer Structures*, Feb 2008, Big Sky Resort, United States.
- CO52. [New views of the sun with EUVI and the future of multilayers for solar physics](#), **Frédéric Auchère; Marie-Françoise Ravet-Krill; Franck Delmotte**, *9th International Conference on the Physics of X-Ray Multilayer Structures*, Feb 2008, Big Sky Resort, Montana, United States.
- CO53. [Recent results in solar imaging using ion beam sputtered multilayers](#), **Marie-Françoise Ravet-Krill; Frédéric Auchère; Christophe Hecquet; Arnaud Jérôme; Franck Delmotte; John D. Moses; J. Newmark**, *The 9th International Conference on the Physics of X-Ray Multilayer Structures*, Feb 2008, Big Sky Resort, United States.
- CO54. [Thermal evolution of Mg/SiC multilayers upon annealing](#), **Hélène Maury; Karine Le Guen; Jean-Michel André; Z. Wang; J. Dong; Françoise Bridou; Franck Delmotte; Philippe Jonnard**, *The 9th International Conference on the Physics of X-Ray Multilayer Structures*, Feb 2008, big Sky Resort, United States.

- CO55. [Two channel EUV mirror for solar missions: design, performances and stability](#), Christophe Hecquet; Franck Delmotte; Marie-Françoise Ravet-Krill; Arnaud Jérôme; Françoise Bridou; Frédéric Auchère; Frédéric Bourcier; Jean-Michel Desmarres; Angelo Giglia; Stephano Nanaronne; Françoise Varniere, The 9th International Conference on the Physics of X-Ray Multilayer Structures, Feb 2008, Big Sky Resort, United States.

HABILITATIONS

- HDR1. [Couches minces et optiques multicouches dans le domaine spectral XUV \(1 nm à 60 nm\)](#), Franck Delmotte, Université Paris-Sud, Feb. 2010. French

DOCTORAL THESES

- T9. [Vers l'intégration de fonctions d'imagerie sur le plan focal infrarouge Application à la conception et à la réalisation d'une caméra sur puce infrarouge cryogénique](#), **Florence De la Barrière**, Université Paris Sud - Paris XI, Oct. 2012. French
- T10. [Conception et réalisation d'un micro-spectromètre dans l'infrarouge](#), **Frédéric Gillard**, Université Paris Sud - Paris XI, Mar. 2012. French
- T11. [Optiques pour les impulsions attosecondes](#), **Charles Bourassin-Bouchet**, Université Paris Sud - Paris XI, Dec. 2011. French
- T12. [Imagerie multispectrale, vers une conception adaptée à la détection de cibles](#), **Jean Minet**, Université Paris Sud - Paris XI, Dec. 2011. French
- T13. [Nouveaux composants optiques pixellisés pour la correction visuelle : modélisation, optimisation et évaluation](#), **Marius Peloux**, Université Paris Sud - Paris XI, Oct. 2011. French
- T14. [Système d'imagerie hybride par codage de pupille](#), **Frédéric Diaz**, Université Paris Sud - Paris XI, May. 2011. French
- T15. [Imagerie hyperspectrale par transformée de Fourier : limites de détection caractérisation des images et nouveaux concepts d'imagerie](#), **Noura Matallah**, Université Paris Sud - Paris XI, Mar. 2011. French
- T16. [Modélisation et simulation de composants optiques diffractifs et pixellisés en vue de leur caractérisation et de leur optimisation](#), **Céline Benoit-Pasanau**, Physique. Université Paris Sud - Paris XI, Sep. 2010. French
- T17. [Nouvelles briques de conception de systèmes intégrés pour la vision infrarouge. D'une approche minimaliste à la caméra sur puce](#), **Guillaume Druart**, physique / optique. Université Paris Sud - Paris XI, Nov. 2009. French
- T18. [Acquisition et extraction d'information des images polarimétriques actives](#), **Arnaud Bènière**, Optique. Université Paris Sud - Paris XI, Oct. 2009. French
- T19. [Conception, réalisation et métrologie de miroirs multicouches pour l'extrême ultraviolet résistants aux environnements du spatial et des sources EUV](#), **Christophe Hecquet**, matériaux et génie des procédés. Université Paris Sud - Paris XI, Mar. 2009. French
- T20. [Composants optiques transparents pixellisés destinés au transport et à la formation des images](#), **Gaid Moulin**, Université Paris Sud - Paris XI, Mar. 2009. French
- T21. [Spectro-imagerie aéroportée par transformation de Fourier avec un interféromètre statique à décalage latéral : réalisation et mise en oeuvre](#), Yann Ferrec, Université Paris Sud - Paris XI, Jul. 2008. French

SEMINAR PRESENTATIONS

- S1. [Optical components for attosecond pulses](#), **Charles Bourassin-Bouchet**, May. 2011. 2011-05-11 University of Oxford
- S2. [Développement de nouvelles multicouches à base d'aluminium pour applications dans l'extrême ultraviolet](#), **Evgueni Meltchakov**, May. 2011. séminaire invité au IN2MP à Marseille (invité par Magali Putero, département Matériaux et Nanosciences de l'IM2NP)
- S3. [La lumière : des concepts aux technologies](#), Pierre Chavel, Mar. 2008. conférence grand public dans le cadre du Collège Scientifique de la Cité des Sciences et des Techniques", Cité des sciences - auditorium. (la Villette)

REPUTATION AND ACADEMIC ATTRACTIVITY

PRIZES AND AWARDS

Pierre Chavel,

- Xiing Chen Chern visiting Professor, Nankai University, Tianjin, (2007-2010)

Florence de la Barrière,

- prix de thèse ONERA, 2012

Arnaud Besnière,

- prix de thèse Thales, 2010

Guillaume Druart,

- prix de thèse de la fondation EADS, 2010
- prix de thèse ParisTech, 2010

INTERACTIONS WITH SOCIAL, ECONOMIC AND CULTURAL ENVIRONMENT

DISSEMINATION OF SCIENTIFIC INFORMATION

C. Benoit-Pasanau, P. Chavel, and M. Peloux,

- Holography and diffractive optics presentation at the fiftieth anniversary of the laser event organized by CNRS in its headquarters, 15 June 2010.

P. Chavel and B. Willems,

- holography and diffractive optics presentation at the exhibit "tout est quantique", Musée du Conservatoire national des Arts et Métiers, Paris, 3 June 2012

P. Chavel,

- Président du comité des Olympiades de Physique France (2011 à 2013)

SERVICE TO THE SCIENTIFIC COMMUNITY AT LARGE

Pierre Chavel,

- Membre du jury IUF senior (2008)
- Membre du Board, Optical Society of America Foundation (2010 à 2012)
- Président du conseil d'évaluation externe du métier "optronique", DGA (2012)
- Membre du Comité Scientifique et Technique, ONERA (2003-2011)
- Membre du conseil scientifique du CNRS, 2005-2010

Sébastien de Rossi,

- Membre du Bureau du Centre de Compétences Thématiques "Optique et Optoélectronique" du CNES (2008...)

François Goudail,

- Membre du conseil de direction du GDR ISIS (2014)
- Membre des comités de direction des GDR ISIS et Ondes
- "Topical Editor" Applied Optics (division « Information processing ») (2009 à 2013)

Franck Delmotte,

- Membre du Comité de Pilotage du Labex PALM (2011 à 2013)
- Chair, OSA Technical Group on Gamma, X-Ray and Extreme UV Optics

PATENTS

- B1. Élément optique transparent à plusieurs couches constituées de pavages cellulaires, **P Chavel; M Peloux**, dépôt FR20110052134 du 16 mars 2011, publication FR2972814, extension WO2012146843
- B2. Réalisation d'un composant optique transparent a structure cellulaire, Ballet J, **Benoit-Passanau C**, Bovet C, Cano JP, **Chavel P, Goudail F**, dépôt FR20100053977 du 21 mai 2010, publication FR2960305, extensions EP2572235, CN103038700, US20130069258, WO2011144852
- B3. Procédé d'identification d'une scène à partir d'images polarisées multi longueurs d'onde, Alouini M, Beniere A, Berginc G, Dolfi D, **Goudail F**, dépôt FR20090002227 du 7 mai 2009, publication FR2945348, extensions EP2427752, WO20100128014
- B4. Système d'imagerie grand champ infrarouge intégré dans une enceinte à vide, Druart G, Primot J, Guerineau N, **Taboury J**, dépôt FR20080005528 du 7 octobre 2008, publication FR 2936878, extensions EP2335110, US2012013706, JP2012505425, WO2010040914
- B5. Actionneur fluïdique linéaire, Bonnin T, **Mercier R**, Perrot S, Rousseau B, **Taboury J**, dépôt EP20080305428 du 28 juillet 2008, publication EP2303767, extensions EP2149537, US20110192998, WO2010012666
- B6. Dispositif optique avec surface optique ajustable, Bonnin T, **Mercier R**, Perrot S, Rousseau B, **Taboury J**, dépôt EP20080305429 du 28 juillet 2008, publication EP2149800, extensions EP2335097, WO2010012665

Production of the SCOP group

MISCELLANEOUS

PRODUCTION NOT DIRECTLY RELATED WITH THE SCIENTIFIC PRODUCTION OF A SPECIFIC RESEARCH GROUP

DISSEMINATION OF SCIENTIFIC INFORMATION

Participation in “Fête de la science”

We participate in the yearly popularization event “fête de la science” aimed at the general public under at least one of the two following actions.

- An open house event. In 2008, 2009, 2010 and 2012, we opened the doors of the laboratory during 1 to 3 days showing research experiments and student practical work training rooms. During these open days, we welcome more than 500 visitors per year (see photo: demonstration of a Lego® laser)
- A participation to a joint event. To reach a wider public, in 2008, 2009, and 2011, we ran a 30 m² booth on the exhibit “La science près de chez vous”, event which brings together about 20 other laboratories during three days. Each year, we renew the exhibited experiments. On Friday we welcome about several hundreds of students from primary and middle schools. On the Saturday and Sunday we welcome the general public, typically a few hundreds people.



Each of these events monopolizes about 15-20 people from the Institut d’Optique based on a voluntary basis.

Large public cycle of conferences

Our Laboratory contributed to the « 50 years of the laser in the city of Light » event organized at several locations in June 2010. In addition, it took the initiative of further celebrating the 50th anniversary of the laser by organizing through a series of conferences offered to the general public. High school students were transported by bus from nearby high schools for two-hour conferences and discussions by outstanding science popularisation lecturers both from our Institute and from partner laboratories nearby or by visiting scientists. In total, during 2010, 2011, 2012, 16 such conferences were presented. We published on line videos of these conferences on the Institut d’Optique YouTube channel: www.youtube.com/user/supoptique .

Travail d'Initiative Personnelle Encadré, TIPE

A “TIPE” is a personal work required from students preparing the “Grande Écoles” competitions. This work is presented during the examination, but it is prepared during the year preceding this exam. A dedicated page on our website invites these students to send us an email detailing their topics, the investigation and work they have already conducted, and some details of the experimental work they foresee. Per year, we receive typically 200 such requests for information on the part of these students. Depending on the student motivation and on the topic they have selected, we give them multiple answers: helping them to clarify their understanding of their topic, invitation for a laboratory visit ... About 100 students per year are invited to participate to a special laboratory demonstration in our engineering school.

Personalia

* [Line Garnero \(1955-2009\): pluridisciplinarity at the heart. Tribute to Line Garnero, director of research of CNRS scientist had works published](#), Sylvain Baillet; J. Brunol; **Pierre Chavel**; Olivier Colliot; **Mireille Cuniot-Ponsard**; D. Dormont; **Philippe Lalanne**; Jacques Martinerie; Bernard Renault; Catherine Tallon-Baudry; Bernard Zalc, *IRBM*, 2011, 32 (1), pp. 1-7

SERVICE TO THE SCIENTIFIC COMMUNITY AT LARGE

Christian Chardonnet,

- Participation à la table ronde organisée à l'occasion de la célébration des cinquante ans du laser et de l'inauguration de la "fontaine laser géante" du CNRS et de l'Université Paris-Nord, par le CNRS le 1 juin 2010 (2010)

Miscellaneous

- (Apparition dans le générique du film de CNRS images sur le laser (en ligne à l'adresse <http://www.cnrs.fr/50anslaser/> (2010)

SUMMARY OF JOINT JOURNAL ARTICLE PUBLICATIONS BETWEEN SEVERAL GROUPS

	Atom Optics	Quantum Optics	NaPhEl	MANO LIA	Biophotonics	Lasers	SCOp
Atom Optics		2	1		1		
Quantum Optics	2						
Nanophotonics and Electromagnetism	1						2
Nonlinear Materials and Applications						1	3
Biophotonics	1					3	
Lasers				1	3		1
Optical Systems and Components			2	3		1	

LCF and ERIS (Institut d'Optique at Saint-Etienne, Laboratoire Hubert Curien) = 3

LCF and LP2N (Institut d'Optique at Bordeaux) = 12