

## Publications and Conferences Abstracts Classified by research groups From January 2006 to December 2008

### OPTOELECTRONIQUE

[O1] "Chirp-Controlled Soliton Fission in Tapered Optical Fibers," D. Törke, W. Wohlleben, J. Teipel, M. Motzkus, B. Kibler, J. M. Dudley, H. Giessen, Applied Physics B. Lasers and Optics, vol 83, pp 37-42 (2006).

[O2] "Bragg mirror inscription on LiNbO<sub>3</sub> waveguides by index microstructuring," R. Ferriere, B. Benkelfat, J. M. Dudley, K. Ghoumid. Applied Optics, vol 45, (15), pp 3553-3560 (2006).

[O3] "Generation of dark solitons by interaction between similaritons in Raman fiber amplifiers," C. Finot, J. M. Dudley, G. Millot. Optical Fiber Technology, vol12, (3), pp 217-226 (2006). **INVITED PAPER**

[O4] "Parabolic pulse generation in comb-like profiled dispersion decreasing fibre," B. Kibler, C. Billet, P.-A. Lacourt, R. Ferriere, L. Larger, J. M. Dudley. Electronics Letters, vol 42, (17), pp 965 – 966 (Août 2006).

[O5] "All-Fiber Source of 20 fs Pulses at 1550 nm using Two Stage Linear-Nonlinear Compression of Parabolic Similaritons," B. Kibler, C. Billet, R. Ferriere, J.M. Dudley. IEEE Photonics Technology Letters vol 18, (17-20), pp 1831-1833 (Octobre 2006).

[O6] "Security of Y-00 under heterodyne measurement and fast correlation attack," S. Donnet, A. Thangaraj, M. Bloch, J. Cussey, J. M. Merolla, L. Larger. Physics Letters A, vol 356, (6), pp 406-410 (Août 2006).

[O7] "Supercontinuum Generation in Photonic Crystal Fiber," J. M. Dudley, G. Genty, S. Coen. Review of Modern Physics, vol 78, (3), pp 1135-1184 (2006). **INVITED PAPER**

[O8] « High resolution group refractive index measurement by broadband supercontinuum interferometry and wavelet-transformation analysis ». D. Reolon, M. Jacquot, I. Verrier, G. Brun, C. Veillas. Optics Express, vol 14, pp 12744-12750 (2006).

[O9] "Self-similarity in ultrafast nonlinear optics ». J.M. Dudley, C. Finot, D.J. Richardson, G. Millot. Nature Physics, vol 3, pp 597-603 (2007).

[O10] "Soliton spectral tunnelling in photonic crystal fibre with sub-wavelength core defect ». B. Kibler, P.A. Lacourt, F. Courvoisier, J.M. Dudley. Electronics Letters, vol 43, pp 967-968 (Août 2007).

[O11] "Optimized one-step compression of femtosecond fibre laser soliton pulses around 1550 nm to below 30 fs in highly nonlinear fibre," B. Kibler, R. Fischer, P. A. Lacourt, F. Courvoisier, R. Ferriere, L. Larger, D. N. Neshev, J. M. Dudley. Electronics Letters, vol 43, (17), pp 915-916 (2007).

[O12] "Fiber supercontinuum sources ». Genty G, Coen S, J.M. Dudley. Journal of the Optical Society of America B, vol 24, pp 1771-1785 (2007) **INVITED PAPER**.

[O13] "Nonlinear envelope equation modeling of sub-cycle dynamics and harmonic generation in nonlinear waveguides », Genty G, Kinsler P, Kibler B, J.M. Dudley. Optics Express, vol 15, pp 5382-5387 (2007).

[O14] « Frontiers of nonlinear optics » Dudley JM, R.W. Boyd. Optics Express, vol 15, (8), pp 5237 (2007).

[O15] "Dynamic instabilities of microwaves generated with optoelectronic oscillators ». YK. Chembo, L. Larger, H. Tavernier, R. Bendoula, E. Rubiola, P. Colet. Optics Letters, vol 32, pp 2571-2573 (2007).

- [O16] *"Realization of a Phase Noise Measurement Bench Using Cross Correlation and Double Optical Delay Line"*, P. Salzenstein, J. Cussey, X. Jouvenceau, H. Tavernier, L. Larger, E. Rubiola, G. Sauvage. *Acta Physica Polonica A*, vol 112, pp 1107-1111 (2007)
- [O17] *"Versatile and Robust Chaos Synchronization Phenomena Imposed by Delayed Shared Feedback Coupling"*, M. Peil, L. Larger, I. Fischer. *Physical Review E-Statistical, Nonlinear, and Soft Matter Physics*, vol 76, (4), article n° 045201 (2007).
- [O18] *"RF-interferences generate chaotic GHz FM - Carrier for communications »*, A. Pallavisini, L. Larger, V.S. Udaltsov, J.M. Merolla, R. Quere, N. Butterlin, J.P. Goedgebuer. *IEEE Journal of Quantum Electronics*, vol 43, (5-6), pp 426-433 (Juin 2007).
- [O19] *"Influence of digitisation on master-slave synchronisation in chaos-encrypted data transmission »*, X. Bavard, A. Locquet, L. Larger, J.P. Goedgebuer. *IET Optoelectronics*, vol 1, pp 3-8 (2007).
- [O20] *"Frequency-coded quantum key distribution »*, M. Bloch, S.W. McLaughlin, J.M. Merolla, F. Patois. *Optics Letters*, vol 32 (3), pp 301-303 (Février 2007).
- [O21] *"Polar Fe(IO<sub>3</sub>)<sub>3</sub> nanocrystals as local probes for nonlinear microscopy »*, L. Bonacina, Y. Mugnier, F. Courvoisier, R. Le Dantec, J. Extermann, Y. Lambert, V. Boutou, C. Galez, J.P. Wolf. *Applied Physics B – Lasers and Optics*, vol 87, (3), pp 399-403 (2007).
- [O22] *"Alternate Multiwavelength Picosecond Pulse Generation by Use of an Unbalanced Mach–Zehnder Interferometer in a Mode-locked Fiber Ring Laser,"* J. Vasseur, M. Hanna, J. M. Dudley, J.-P. Goedgebuer, J. Yu, G.-K. Chang, J. R. Barry. *IEEE Journal of Quantum Electronics*, vol 43, (1), pp 85-96 (2007).
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- [O24] *« Identification of biological particles using ultrafast depletion spectroscopy »*. F. Courvoisier, L. Bonacina, V. Boutou, L. Guyon, C. Bonnet, B. Thuillier, J. Extermann, M. Roth, H. Rabitz, J.P. Wolf. *Faraday discussions*, vol 137, pp 37-49 (2008).
- [O25] *"Control of lasing filament arrays in nonlinear liquid media"*, L. Guyon, K.M. Hajek, F. Courvoisier, V. Boutou, R. Nuter, A. Vinçotte, S. Champeaux, L. Bergé, J.P. Wolf. *Applied Physics B*, (2008).
- [O26] *"Experimental chaotic map generated by picosecond laser-pulse seeded electro-optic nonlinear delay dynamics"*, M. Grapinet, V. Udaltsov, M. Jacquot, P.A. Lacourt, J.M. Dudley, L. Larger. *Chaos*, vol 18, article n° 013110 (Mars 2008).
- [O27] *"Harnessing and control of optical rogue waves in supercontinuum generation"*, Dudley J. M., Genty G., Eggleton B. J., arXiv : 0801.2760 (2008); *Optics Express* vol 16, pp 3644-3651 (2008).
- [O28] *"Simultaneous fs pulse spectral broadening and third harmonic generation in highly nonlinear fibre: experiments and simulations"*. B. Kibler, R. Fischer, G. Genty, D.N. Neshev, J.M. Dudley. *Applied Physics B, Lasers and Optics*, vol 91, pp 349-352 (2008).
- [O29] *"Nonlinear Dynamics and Spectral Stability of Optoelectronic Microwave Oscillators."* Y.K. Chembo, L. Larger, P. Colet. *IEEE Journal of Quantum Electronic*, Vol.44, No.9, pp.858-866 (2008).
- [O30] *"Synchronisation and communication with regularly clocked optoelectronic discrete time chaos"*. M. Grapinet, V.S. Udaltsov, L. Larger, J.M. Dudley, *Electronics Letters*, vol 44, (12), pp 764-766 (2008).
- [O31] *Effects of gain and bandwidth on the multimode behavior of optoelectronic microwave oscillators."* Y.K. Chembo, L. Larger, R. Bendoula, P. Colet. *Optics Express*, vol 16, (12), pp.9067-9072 (2008).
- [O32] *"The measurement of ultrashort electromagnetic pulses."* J.M. Dudley, I.A. Walmsley, R. Trebino. *Journal of Optical Society of America B*, vol 25, (6), pp MU1-MU2 (2008).
- [O33] *"Investigation of spectral interferometry for refractive index measurement and for lens aberrations characterization"*. D. Reolon, I. Verrier, C. Veillas, G. Brun, M. Jacquot. *Optics communications*, Vol. 281, (17), pp 4230-4239 (Septembre 2008).

- [O34] *"Nano-FROG: Frequency Resolved Optical Gating by a nanometric object"*. J. Extermann, L. Bonacinal, F. Courvoisier, D. Kiselev, Y. Mugnier, R. Le Dantec, C. Galez, J-P. Wolf. *Optics Express*, vol 16, (14) (2008).
- [O35] *"Harmonic extended supercontinuum generation and carrier envelope phase dependent spectral broadening in silica nanowires,"* G. Genty, B. Kibler, P. Kinsler J. M. Dudley, *Optics Express*, vol 16 (15), 10886-10893 (Juillet 2008)
- [O36] *"Time-of-flight range detection using low frequency intensity modulation of a CW laser diode. Application to fiber length measurement"*, R. Ferriere, J. Cussey J. M. Dudley, *Optical Engineering* **47**, 093602 (2008)
- [O37] *"Composition law for polarizers"*, J. Lages, R. Giust, JM. Vigoureux, *Physical Review A*, Vol. 78 (3), Art. N° 033810 (Septembre 2008)
- [O38] *Optoelectronic delay dynamics: from optical chaos communication to high purity microwave oscillators"*. M. Jacquot, Y.K. Chembo, L. Larger. *Annales de Physique*, vol 32, (2-3), pp 39-44 (2008).
- [O39] *"Optical rogue-wave-like extreme value fluctuations in fiber Raman amplifiers,"* K. Hammani, C. Finot, J. M. Dudley, G. Millot, *Optics Express*, vol 16 (21), 16467-16474 (Octobre 2008)
- [O40] *"Parabolic Pulse Amplifiers"* C. Finot, G. Millot, J.M. Dudley, *Fiber and Integrated Optics*, vol. 27, pp. 505-515 (2008)
- [O41] *"Applications of the optical fiber to the generation and to the measurement of low-phase-noise microwave signal"*, K. Volianskyi, J. Cussey, H. Tavernier, P. Salzenstein, G. Sauvage, L. Larger, E. Rubiola. *JOSA B*, vol. 25 (12), pp. 2140-2150 (Décembre 2008).
- [O42] *"Modulation control and spectral shaping of optical fiber supercontinuum generation in the picosecond regime,"* G. Genty, J. M. Dudley, B. J. Eggleton, arXiv:0809.2388 [physics.optics] accepted for publication in *Applied Physics B* (2008)
- [O43] *"10 years of nonlinear optics in photonic crystal fiber"*, J.M. Dudley, J.R. Taylor. *Progress and perspectives Nature Photonics*, accepted (2008)
- [O44] *"A dense array of small coupled waveguides in fiber technology: trefoil channels of microstructured optical fibers,"* A. M. Apetrei, M. C. Phan Huy, N. Belabas, J. A. Levenson, J.-M. Moison, J. M. Dudley, G. Mélin, A. Fleureau, L. Galkovsky, S. Lempereur, accepted for publication in *Optics Express* (2008)
- [O45] *"Determination of Phase Noise Spectra in Optoelectronic Microwave Oscillators: a Langevin Approach"*, Y.K. Chembo, K. Volyanskyi, L. Larger, E. Rubiola, P. Colet, *IEEE Journal of Quantum Electronics*, accepté (2008)
- [O46] *"Routes to Chaos and Multiple Time Scale Dynamics in Broadband Bandpass Nonlinear Delay Electro-Optic Oscillators"*, M. Peil, M. Jacquot, Y.C. Kouomou, L. Larger, T. Erneux. *Physical Review E*, accepté (Décembre 2008)

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- [O47] *"Passively mode-locked Raman fiber laser with 100 GHz repetition rate,"* J. Schröder, S Coen, F. Vanholsbeeck, T. Sylvestre. *Optics Letters*, vol 31, (23), pp 3489-3491 (2006). Also selected for *Photonic Spectra Magazine*, vol. 41, (1), (2007), and *Virtual Journal of Ultrafast Science*, Vol. 5, (12), (2006).
- [O48] *"Generation of multicolor vector Kerr solitons by cross-phase modulation, four-wave mixing, and stimulated Raman scattering ,"* G. Fanjoux, J. Michaud, M. Delqué, H. Maillotte, T Sylvestre. *Optics Letters*, Vol 31, (23), pp 3480-3482 (Décembre 2006).
- [O49] *"Assessment method for photo-induced waveguides,"* M. Chauvet, G. Fu, G. Salamo. *Optics Express*, Vol 14, (22), pp 10726-10732 (2006).

- [O50] "Theoretical study of gain distortions in dual-pump fiber optical parametric amplifiers," A. Vedadi, A. Mussot, E. Lantz, H. Maillotte, T. Sylvestre. *Optics Communications*, vol 267, (1), pp 244–252 (Novembre 2006).
- [O51] "Ultra-low Chromatic Dispersion Measurement of Optical Fibers With a Tunable Fiber Laser," B. Auguié, A. Mussot, A. Boucon, E. Lantz, T. Sylvestre. *IEEE Photonics Technology Letters*, vol 18, (17), pp. 1825-1827 (Octobre 2006).
- [O52] "Electrically switched photoinduced waveguide in unpoled strontium barium niobate," M. Chauvet, A. Guo, G. Fu, G. Salamo. *Journal of Applied Physics*, vol 99, (11), article n°113107 (2006).
- [O53] "Supercontinuum generation using continuous-wave multi-wavelength pumping and dispersion management," T. Sylvestre, A. Vedadi, H. Maillotte, F. Vanholsbeeck, S. Coen. *Optics Letters*, vol 31, (13), pp 2036-2038 (2006).
- [O54] "Stability of spatial soliton arrays generated in a noninstantaneous Kerr medium from partially spatiotemporally coherent light", G. Fanjoux, E. Lantz, F. Devaux, H. Maillotte. *Journal of the Optical Society of America B*, vol 23 (6), pp 1099-1108, Juin 2006.
- [O55] "Temporal behavior of two-wave-mixing in photorefractive *InP:Fe* versus temperature," N. Khelifaoui, D. Wolfersberger, G. Kugel, N. Fressengeas, M. Chauvet. *Optics Communications*, vol 261, (1), pp.169–174 (2006).
- [O56] "3-D integrated optical interconnect induced by self-focused beam," V. Coda, M. Chauvet, F. Pettazzi, E. Fazio. *Electronics Letters*, vol 42, (8), pp 37-38 (2006).
- [O57] "Limits of amplification of weak images", S. Brustlein, F. Devaux, E. Lantz. *Journal of Modern Optics*, Vol 53 (5-6), pp 799-807, Mars-Avril 2006.
- [O58] "Experimental observation of a two-coloured spatial soliton in a Kerr environment in the presence of stimulated Raman diffusion", G. Fanjoux, J. Michaud, M. Delqué, H. Maillotte, T. Sylvestre. *Journal de Physique IV*, vol 135, pp 309-310 (Octobre 2006).
- [O59] "Sharp waveguide bends induced by spatial solitons," R. Jager, S. P. Gorza, C. Cambournac, M. Haelterman, M. Chauvet. *Applied Physics Letters*, vol. 88, (6), article n°061117 (2006).
- [O60] "Zero-dispersion wavelength mapping in short single-mode optical fibers using parametric amplification," A. Mussot, E. Lantz, A. Durécu-Legrand, C. Simonneau, D. Bayart, T. Sylvestre, H. Maillotte. *IEEE Photonics Technology Letters*, Vol 18, (1), pp-22-24 (Janvier 2006).
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- [O62] "Complete experimental characterization of stimulated Brillouin scattering in photonic crystal fiber," J. C. Beugnot, T. Sylvestre, D. Alasia, H. Maillotte, V. Laude, A. Monteville, L. Provino, N. Traynor, S. F. Mafang, and L. Thévenaz. *Optics Express*, vol 15, pp 15517-15522 (2007).
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- [O64] "Phase sensitive parametric amplification of optical vortex beams," F. Devaux, R. Passier. *European Physical Journal D*, vol 42 (1), pp 133-137, Avril 2007.
- [O65] "Roles of resonance and dark irradiance for infrared photorefractive self-focusing and solitons in bipolar *InP:Fe*," N. Fressengeas, N. Khelifaoui, N. Dan, C. Wolfersberger, D. Montemezzani, G. Leblond, H. M. Chauvet, *Physical Review A*, vol 75, (6), article n° 063834, (2007).
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- [O79] "Demonstration of an integrated Y-junction LiNbO<sub>3</sub> Synchronized Double Phase Modulator and its application to dual-Pump Fiber Optical Parametric Amplifiers and wavelength converters", A. Vedadi, N. Grossard, J. Hauden, E. Lantz, H. Maillotte, and T. Sylvestre, *IEEE/OSA Journal of Lightwave Technology*, Vol. 26, N°7, page 777-781, April 2008.
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- [O85] *"Investigation of gain ripple in two-pump fiber optical parametric amplifiers"*, A. Vedadi, M. E. Marhic, E. Lantz, H. Maillotte, and T. Sylvestre, *Opt. Lett.* **33**, 2203-2205, October 2008
- [O86] *"Cancellation of Raman pulse walk-off by slow light,"* G. Fanjoux and T. Sylvestre, *Optics Letters*, Vol. 33. No. 21, pp 2506-2508, November 2008.
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## BIO-PHOTONIQUE

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[O31] "*Parametric amplification of images : classical and quantum effects*", Eric Lantz, Fabrice Devaux, Jean Luc Blanchet. EOS Topical meeting on Advance Imaging Techniques, Lille, Septembre 2007, pp. 90-91. **Conférence invitée.**

[O32] "*Volokonnye istochniki superkontinuuma i vtoroy garmoniki naosnove malomownykh brillouin novskih lazerov*", A. Fotiadi, P. Mégret, O. Deparis, A. Boucon, H. Maillotte, T., Sylvestre, C. Corbari, A. Canagasabay, M. Ibsen, P. Kazansky, "All\_fiber sources of supercontinuum and second harmonic based on low-power Brillouin lasers", Russian Fiber Lasers 2007, 4-6 avril 2007, Novosibirsk, Russie. **Invité**

[O33] "*Impact of Pump Quality on the Performances of Fiber Optical Parametric Amplifiers*," T. Sylvestre, A. Musso, E. Lantz, H. Maillotte, Nonlinear Photonics IEEE LEOS Winter Topical meeting, paper MB2.1 (NP, Sorrento, Italy, 14-16 January 2008). **Conférences invitée.**

## NANO OPTIQUE

[O34] «*Some new trends on lithium niobate modulators*», N. Courjal, M.P. Bernal, J. Hauden, J. Amet, M. Roussey, H. Porte, Photonics West, San-Jose, États-Unis d'Amérique, 21/01/2006, SPIE Proceedings Series, Vol. 61, n°23, pp 80-94, (02/03/2006). **Conférence invitée.**

[O35] «*Applications de l'exaltation de l'effet électro-optique dans un cristal photonique en niobate de lithium induit par le ralentissement de la lumière* », M.-P. Bernal, M. Roussey, J. Amet, F.I. Baida, G.W. Burr, JNOG, Grenoble , 2-6 Juillet (2007). **Conférence invitée.**

[O36] "*LiNbO<sub>3</sub> acousto-optical and electro-optical micromodulators*", N. Courjal, P.M. Bernal, G. Ulliac, S. Benchabane, TOM3, EOSAM 2008, Paris. **Conférence invitée.**

[O37] "*FIB milling for lithium niobate photonic crystals*", N. Courjal, M.P. Bernal, M. Spajer, G. Ulliac, R. Salut, J. Dahdah, S. Benchabane, Proceedings of the first international workshop on FIB for photonics (ECIO 2008), Eindhoven 2008. Eds. René de Ridder, Feridun Ay, Lasse. Kauppinen, pp. 16-21 (2008) **Conférence invitée.**

[O38] «*Cristaux photoniques sur LiNbO<sub>3</sub> : Exaltation de l'effet électro-optique induit par le ralentissement de la lumière*», M. Spajer, M-P. Bernal, S. Diziain, M. Roussey, J. Amet, F. Baida, G. Ulliac. Conférence « ICO 2008 » Sétif (Algérie), 08-10 Novembre 2008. **Conférence invitée.**

## BIOPHOTONIQUE

[O39] "*Mathematics and Optics: Reliable partners serving science and technology*", P. Sandoz, J.M. Friedt, L. Froehly, E.Carry, G.W. Burr, R. Escalona, XVI Congreso nacional de matematicas, 16-19 Juillet 2007, Medellin (Colombie) **Conférencier invité.**

[O40] «*Tomographie optique spectralement résolue* », L. Froehly, Optique Grenoble 2007, **Conférence invitée**

[O41] "*Fluorescence probe for in vivo and real-time detection of melanomas*", V. Bonnans, C. Pieralli, B. Wacogne, T. Gharbi and P. Humbert, **Cours Invité**, Saratov Fall Meeting - SFM'07 XI International School for Junior Scientists and Students on Optics, Laser Physics & Biophysics, 25-28 Septembre 2007, Saratov, Russie.

[O42] «*Optical Coherence Tomography by grating based correlation* », L. Froehly, Fifth Technical Meeting "European COST Workshop 299 FIDES", Berlin, ALLEMAGNE, 5-7 février 2008. **Invité.**

## **Communications avec actes**

## OPTOELECTRONIQUE

- [O1] *"Transition du Map vers le Flot dans un oscillateur opto-électronique à retard"*, L. Larger, D. Fournier-Prunaret, P.-A. Lacourt, S. Poinsot, 9èmes Rencontres du Non Linéaire, Institut Poincaré, Paris, pp.157-160, (8-10 Mars 2006).
- [O2] *"Systèmes optiques de communication par porteuse chaotique : du temps continu vers le temps discret"*, L. Larger, P.-A. Lacourt, S. Poinsot, CIFA 2006, Bordeaux, France, pp. 138-164 (30-31 Mai 2006).
- [O3] *"Numerical and experimental study of an alternate multiwavelength mode-locked fiber ring laser"* J. Vasseur, M. Hanna, J. M. Dudley, J. Yu, J. R. Barry and G.-K. Chang, Optical Fiber Communication Conference and National Fiber Optic Engineers Conference, article n°1636550 (OFCNFOEC 2006), Anaheim, CA, USA paper OWI30 (2006),
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- [O5] *"Photonic Bandgap Fiber and Soliton Effect Compression of Parabolic Pulses to 20 fs"* B. Kibler, C. Billet, J. M. Dudley, , Conference on Lasers and Electro-Optics (CLEO) 2006, Long Beach CA, USA paper CThR2 (2006).
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- [O10] *« LDPC-based secret key agreement over the Gaussian wiretap channel »*. M. Bloch, A. Thangaraj, S-M. McLaughlin, J-M. Merolla. IEEE International Symposium on Information Theory-Proceedings, article n°4036151, pp 1179-1183 (2006).
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- [O12] *"Generalized nonlinear envelope equation for extreme nonlinear broadening; Physics Crossing Borders"* G. Genty, J.M. Dudley, B. Kibler and P. Kinsler, mars 15–17, 2007, Tallinn, Estonia. Proceedings of the XLI Annual Conference of the Finnish Physical Society, p 304 (2007)
- [O13] *« Contrôle de la compression d'impulsions ultra courtes jusqu'à 20fs dans une fibre à forte non linéarité »* B. Kibler, P. A. Lacourt, F. Courvoisier, R. Ferriere, C. Billet, R. Fischer, D. Neshev, J.M. Dudley, 26<sup>èmes</sup> Journées Nationales d'Optique Guidée (JNOG 07), juillet 2-5, Recueil des communications, pp. 175-177. Grenoble (2007)
- [O14] *« Génération de nanoparticules de niobate de lithium par ablation laser femtoseconde »* F. Courvoisier, P-A. Lacourt, L. Furfaro, J.M. Dudley, 26<sup>èmes</sup> Journées Nationales d'Optique Guidée (JNOG 07), juillet 2-5, Recueil des communications, p.p 19-21 Grenoble (2007)
- [O15] *"Generalized envelope equation for studying sub-cycle dynamics and multiple-harmonic spectral broadening in highly nonlinear waveguides"* G. Genty, B. Kibler, P. Kinsler and J. M. Dudley., Conference on Lasers and Electro-Optics Europe CLEO-IQEC 2007, Paper IE6-1-THU, Munich, Germany (2007).
- [O16] *« Equation d'enveloppe non-linéaire pour la modélisation de dynamiques sub-cycle optique et la génération d'harmoniques dans les guides d'onde non-linéaires »* B. Kibler, G. Genty, P. Kinsler, J.M.

Dudley, 26<sup>èmes</sup> Journées Nationales d'Optique Guidée (JNOG07), juillet 2-5, Recueil des communications, pp. 58-60. Grenoble (2007).

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[O19] "*Dynamiques non linéaires expérimentales à retard et à temps discret*", M. Grapinet, L. Larger, P.-A. Lacourt, V. Udaltsov, 10ème Rencontres du Non Linéaire, Institut Poincaré, Paris, (14-16 Mars 2007), pp.55-60.

[O20] "*Bifurcation d'enveloppe d'un oscillateur optoélectronique micro-onde à retard, à haute pureté spectrale*", L. Larger, Y. Chembo, H. Tavernier, R. Bendoula, P. Colet, E. Rubiola, 10ème Rencontres du Non Linéaire, Institut Poincaré, Paris, (14-16 Mars 2007), pp.85-88.

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[O24] "*Femtosecond Lidar and Coherent Control*", J.-P.Wolf, L. Bonacina, F. Courvoisier, M. Moret, P. Bejot, J. Extermann, A. Rondi, J. Kasparian, N. Lascoux, R. Salamé, E. Salmon, P. Maioli, V. Boutou, L. Guyon, B. Thuillier, S.Champeaux, L. Berge, C. Guet, N. Blanchot, O. Bonville, A. Boscheron, P. Canal, M.Castaldi, O. Hartmann, C. Lepage, L. Marmande, E. Mazataud, G. Mennerat, L.Patissou, D. Raffestin, M. Roth and H. Rabitz, Frontier of Optics, paper LTuE2, San José, CA, USA September 16-20 (2007)

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[O29] "*Dynamics of Harmonic Generation in Highly Nonlinear Silica Nanowires.*" G. Genty, B. Kibler, P. Kinsler, J.M. Dudley. Conference on Lasers and Electro-Optics (CLEO) Paper CWB7, San Jose (2008).

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- [O35] "*On the phase noise in optoelectronic oscillator*", K. Volyanskiy, Y.K. Chembo, E. Rubiola, H. Hmima, P. Salzenstein, L. Larger, WECONF 2008, Saint-Pétersbourg, Russie (Mai 2008)
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