

IMEP-LAHC
Publications 2007

Thème Composants Micro Nano Electronique « CMNE »

Reuves internationales avec comité de lecture – CMNE – 2007	
[1R1]	F.Balestra, <i>Status and trends in advanced SOI devices and materials</i> Invited paper, to be published in Chinese Journal of Semiconductors, 2007
[1R2]	F. Balestra, <i>SOI nanodevices and materials for CMOS ULSI,</i> Invited paper, Journal of Telecommunications and Information Technology, pp. 3-13, 2007.
[1R3]	M. Bescond, N. Cavassilas, K. Nehari, M. Lannoo <i>Tight-Binding Calculations of Ge-nanowire Bandstructures</i> Journal of Computational Electronics, Vol. 6, p. 341 (2007)
[1R4]	K. Nehari, N. Cavassilas, F. Michelini, M. Bescond, J.L. Autran, M. Lannoo <i>Full-band study of current across silicon nanowire transistors</i> Applied Physics Letters, vol 90, n°13, 132112 (26 march 2007)
[1R5]	K.Rogdakis, M.Bescond, E.Bano, K.Zekentes, <i>Theoretical comparison of 3C-SiC and Si nanowire FETs in ballistic and diffusive regimes,</i> Nanotechnology 18, pp.475715-475720 (2007)
[1R6]	A. Martinez, M. Bescond, J. R. Barker, A. Svizhenkov, A. Anantram, C. Millar, A. Asenov, <i>Self-consistent full 3D real-space NEGF simulator for studying of non-perturbative effects in nano-MOSFET,</i> IEEE Transactions on Electron Devices, Vol.54, p. 2213 (2007).
[1R7]	M. Bescond, N. Cavassilas, and M. Lannoo, <i>Effective-mass approach for n-type semiconductor Nanowire MOSFETs arbitrarily oriented,</i> Nanotechnology, Vol. 18, p. 255201(2007).
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[1R9]	A. Tsormpatzoglou, C. A. Dimitriadis, R. Clerc, Q. Rafhay, G. Pananakakis, and G. Ghibaudo, <i>Semi-analytical modeling of short channel effects in Si and Ge symmetrical double-gate MOSFETs,</i> IEEE Trans Electron Devices, 54, 1943-1946 (2007).
[1R10]	Q. Rafhay, R. Clerc, M. Ferrier, G. Pananakakis and G. Ghibaudo, <i>Impact of Channel Orientation on Ballistic Current of nDGFETs with Alternative Channel Materials”</i> Solid-State Electronics, In Press, Corrected Proof, Available online 3 December 2007
[1R11]	M. Ferrier, R. Clerc, L. Lucci, Q. Rafhay, G. Pananakakis, G. Ghibaudo, F. Boeuf, T. Skotnicki, <i>Conventional Technological Boosters for Injection Velocity in Ultra Thin Body MOSFETs</i> IEEE Trans. on Nanotechnology, Volume 6, Issue 6, Nov. 2007 Page(s): 613 - 621
[1R12]	A. Kuriyama, J. Mitard, O. Faynot, L. Brevard, L. Clerc, A. Tozzo, V. Vidal, S. Deleonibus, H. Iwai, S. Cristoloveanu, <i>A systematic investigation of work function in advanced metal gate HfO₂/SiO₂ structures with bevel oxide,</i> Solid-State Electronics, Vol. 51(11-12), pp. 1515-1522 (Nov.-Dec. 2007)
[1R13]	K. Akarvardar, S. Cristoloveanu, M. Bawedin, P. Gentil, B.J. Blalock, D. Flandre, <i>Thin film fully-depleted SOI four-gate transistors</i> Solid-State Electronics, Vol. 51(2), pp. 278-84 (Feb. 2007).

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[1R17]	S. Zaouia, S. Cristoloveanu, A.H. Perera <i>Investigation of compressive strain effects induced by STI and ESL,</i> In Nanoscaled Semiconductor-on-Insulator Structures and Devices, S. Hall, A.N. Nazarov and V.S. Lysenko eds., Springer, ISBN 978-1-4020-6379-4, 239–250 (2007)
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[1R24]	M. Bawedin, S. Cristoloveanu, D. Flandre, <i>Innovating SOI memory devices based on floating body effects,</i> Solid-State Electronics, Vol. 51(10), pp. 1252-1262 (Oct. 2007)
[1R25]	K. Akarvardar, S. Cristoloveanu, P. Gentil <i>Origin of 1/f noise in MOS devices: concluding a noisy debate,</i> Future Trends in Microelectronics : Up the Nano Creek, S. Luryi, J. Xu, and A. Zaslavsky eds., Wiley Interscience, Hoboken, USA, ISBN 978-0-470-08146-4, 277–286 (2007)
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[1R30]	A. Zaslavsky, S. Soliveres, C. Le Royer, S. Cristoloveanu, L. Clavelier, S. Deleonibus <i>Negative transconductance in double-gate germanium-on-insulator field effect transistors</i> . Appl. Phys. Letters., Vol. 91, n°18, 183511:1–3 (2007)
[1R31]	C. Dupré, T. Ernst, J-M. Hartmann, F. Andrieu, J-P. Barnes, P. Rivallin, O. Faynot, S. Deleonibus, P. F. Fazzini, A. Claverie, S. Cristoloveanu, G. Ghibaudo, F. Cristiano <i>Carrier mobility degradation due to high dose implantation in ultrathin unstrained and strained silicon-on-insulator films</i> , Journal of Applied Physics, 102, n°10, p.104505:1–8 (2007)
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[1R47]	F. Rochette, M. Cassé, M. Mouis, G. Reimbold, D. Blachier, C. Leroux, B. Guillaumot, F. Boulanger <i>Experimental evidence and extraction of the electron mass variation in [110] uniaxially strained MOSFETs</i> Solid-State Electronics, Vol 51/11-12, Special Issue, Extended papers selected from the 36 th European Solid-State Device Research Conference - ESSDERC'06, pp 1458-1465 (2007)
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[1CN6]	B. Ebert, P. Febvre, T. Reich, Th. Ortlepp and F.H. Uhlmann, <i>Experimental analysis of flux trapping in RSFQ junctions</i> 4 th FLUXONICS RSFQ design Workshop – Ilmenau – Germany, 23-25 September 2007

[1CN7]	Th. Ortlepp, B. Ebert, F.H. Uhlmann , S. Wunsch, M. Siegel, P. Febvre, M. Schubert, J. Kunert and H.G. Meyer <i>Development and test of a fast RSFQ-CMOS interface</i> 4 th FLUXONICS RSFQ design Workshop – Ilmenau – Germany, 23-25 September 2007
[1CN8]	Th. Ortlepp , B. Dimov, P. Febvre, J. Kunert, H.G. Meyer and F.H. Uhlmann <i>Experimental analysis of a new generation of compact Josephson-inductance based RSFQ circuits</i> 4 th FLUXONICS RSFQ design Workshop – Ilmenau – Germany, 23-25 September 2007
[1CN9]	Siham Badi, P. Febvre, J.F. Roux, J.L. Coutaz <i>Détection optoélectronique de signaux picosecondes issus de circuits numériques à quantum de flux</i> 4 ^{èmes} Journées THz, Bombannes, 29 mai 2007, 1er juin 2007.
[1CN10]	T. Reich, P. Febvre, T. Ortlepp, F.-Hermann Uhlmann, Juergen Kunert et Hans-Georg Meyer <i>Experimental study of digital SFQ and hybrid SQUID magnetometers</i> Journées SUPRA 2007, Ecole polytechnique, Palaiseau, 11-13 juin 2007.
[1CN11]	J. Kunert, Th. Ortlepp, P. Febvre, T. Reich, L. Fritzsche, F. H. Uhlmann, H.G. Meyer <i>RSFQ chip tests for FLUXONICS Foundry demonstration</i> Tagung Kryoelektronische Bauelemente 2007, Herrsching am Ammersee, 3-5 octobre 2007.
[1CN12]	Th. Ortlepp, S. Wuensch, M. Schubert, P. Febvre, J. Kunert, H.-G. Meyer, M. Siegel, F. H. Uhlmann <i>Development and test of a superconductor-to-semiconductor interface circuit for high data rates</i> Tagung Kryoelektronische Bauelemente 2007, Herrsching am Ammersee, 3-5 octobre 2007.
[1CN13]	B. Bercu, L. Montès, P. Morfouli <i>Conception et réalisation de MEMS/NEMS intégrés sur membranes ultra fines en Silicium</i> GDR Micro et Nano Systèmes, 31 Mai-1 ^{er} Juin 2007, Montpellier
[1CN14]	B. Bercu, L. Montès, P. Morfouli <i>Integrated sensors for chip cooling optimization</i> Physique en clips Jean Souletie, 8-9 Mars 2007, Grenoble
[1CN15]	X. Xu, B. Bercu, L. Montès <i>AFM study of mechanically strained nanostructures for NEMS</i> Physique en clips Jean Souletie, 8-9 Mars 2007, Grenoble
[1CN16]	X. Xu, B. Bercu, P. Morfouli, L. Montès <i>Dynamic and static electromechanical simulations of strained nanostructures for ultra sensitive NEMS sensors</i> Journées thématiques "Simulations multiphysiques" du GDR Nanoélectronique, 6-7 Décembre 2007, Villeneuve d'Ascq
[1CN17]	C. Buran, M. Pala, M. Bescond, M. Mouis, poster <i>Surface roughness mobility in Si nanowires from quantum magnetoconductance simulation</i> MIGAS European summer school, 2007 session on Multi-Physics and Multi-Scale Simulation for Nano Electronics, 24-29 Juin 2007, Autrans, France
[1CN18]	C. Buran, M.G. Pala, M. Bescond and M. Mouis, <i>Surface roughness mobility in Si nanowires from magnetoconductance simulation,</i> Journées thématiques "Simulations multiphysiques" du GDR Nanoélectronique, 6-7 Décembre 2007, Villeneuve d'Ascq
[1CN19]	M.G. Pala, M. Governale and J. König, <i>Non-equilibrium Josephson current through interacting quantum dots,</i> Annual Meeting of the Deutsche Physikalische Gesellschaft and DPG - spring meeting of the Division Condensed Matter, Regensburg, 26-30 March 2007, Germany (March 2007)
[1CN20]	M. Pala <i>Local Density of States from Scanning Gate Microscopy,</i> Institut für Theoretische Physik III, University of Bochum (Germany), November 2007.

Thème RF, Hyperfréquences et Optomicroondes « RFHO »

Reuves internationales (avec comité de lecture) – Thème2 – RFHO – 2007	
[2R1]	B. Cabon, G. N'Guyen <i>Ultra-Wide Band over fibre in Millimetre Waves using up-conversion technique</i> Journal of the European Microwave Association, Special Issue on Microwave Photonics, Proceedings, Vol. 4, décembre 2007
[2R2]	M. El Khaldi, F. Podevin, O. Exshaw, A. Vilcot, A. M. E. Safwat <i>Improvement of the Performance of Optically Controlled Microstrip Phase-Shifters.</i> IET Microwaves, Antennas & Propagation, Vol.1, n°2, pp. 427-432, avril 2007
[2R3]	A. Farcy, M. Gallitre, V. Arnal, M. Sellier, L. Guibe, B. Blampey, C. Bermond, B. Fléchet, J. Torres <i>impact of process parameters on circuit performance for the 32 nm technology node</i> Microelectronic Engineering, Vol. 84, n°11, pp. 2739-2743, novembre 2007
[2R4]	M. Gallitre, B. Blampey, B. Fléchet, A. Farcy, V. Arnal, C. Bermond, T. Lacrevez, J. Torres <i>Impact of porous SiOCH on propagation performance measured for narrow interconnects of the 45 nm node</i> Microelectronic Engineering, Vol. 84, n°11, pp. 2744-2749, novembre 2007
[2R5]	R. Gary, Y. Le Guennec, B. Cabon <i>Photodiode Up-Conversion Technique for UWB-over-Fiber-Systems</i> Journal of the European Microwave Association, Special Issue on Microwave Photonics, Proceedings, Vol. 4, décembre 2007
[2R6]	C. Hoarau, P.E. Bailly, J.D. Arnould, P. Ferrari, P. Xavier <i>Accurate measurement method for characterisation of RF impedance tuners</i> IEE Electronics Letters, Vol. 43, n°25, pp. 1434-1436, décembre 2007
[2R7]	Y. Le Guennec, R. Gary <i>Optical Frequency Conversion for Millimeter Wave Ultra Wide Band-over-Fiber Systems</i> IEEE Photonics Technology letters, Vol. 19, n°13, pp. 996-998, juillet 2007
[2R8]	K. Merzouk, Y. Le Guennec, B. Cabon <i>Bit error rate study of a low cost OTDM system based on a coherent source</i> Journal of the European Microwave Association, Special Issue on Microwave Photonics, Proceedings, Vol. 4, pp. 352–356, décembre 2007
[2R9]	A.L. Perrier, J.M. Duchamp, P. Ferrari <i>A Small-size Semi-lumped Three-port Tunable Power Divider</i> Microwave and Optical Technology Letters, Vol. 49, n° 1, pp. 90-94, janvier 2007
[2R10]	E. Pistono, L. Duvillaret, J.M. Duchamp, A. Vilcot, P. Ferrari <i>Improved and compact 0.7 GHz tune-all bandpass filter</i> IEE Electronics Letters, Vol. 43, n°3, pp.165-166, février 2007
[2R11]	F. Podevin, S. Hemour, D. Raully, P. Xavier <i>RF Stationary Wave Integrated Fourier Transform Spectrometer</i> Microwave and Optical Technology Letters, vol. 49, n°5, pp.1138-1142, mai 2007
[2R12]	M. Schicke, A. Navarrini, Ph. Ferrari, T. Zöpfl, F. Wittmann, W. Bedyk, G. Schrag, K.L. Schuster <i>Niobium SupraMEMS for Reconfigurable Millimeter Wave Filters</i> IEEE Trans. on Applied Superconductivity, Vol. 17 - n°2, juin 2007
[2R13]	R. Tamas, J. Chilo, P. Saguet <i>Approximation of the impulse response of an ultra-wide band antenna</i> Eur. Phys. J. Appl. Phys. Vol. 39, pp.79-83, 2007
[2R14]	J. Yavand Hasani, M. Kamarei, F. Ndagijimana <i>Analytic input matching for millimeter wave LNA in 90nm CMOS technology</i> IEICE Electronic Express, Vol.4, n°15, pp. 472-477, 2007

Conférences Internationales (avec Comité de Lecture) – Thème2 – RFHO – 2007	
[2CI1]	B. Cabon <i>Recent Advances and Trends in European Projects on Microwave Photonics</i> Invité, The 5th Microwave and Millimeter-Wave Photonics workshop, Société IEICE (The Institute of Electronics Information and Communication Engineers), Tokyo, Japon, 20 avril 2007
[2CI2]	B. Cabon <i>Perspectives of UWB over fibre in 60 GHz Band</i> Invité, Mediterranean, Microwave Symposium, Microwave Optical Week, Budapest, Hongrie, pp. 355-358, 14-16 mai 2007
[2CI3]	B. Cabon, J. Yao <i>Generation and processing of UWB signals over fiber</i> Invité, ISIS-IPHOBAC Summer School, “Broadband Architectures and Functions”, Budapest, Hongrie, 16-18 mai 2007
[2CI4]	Y. Le Guennec, M. Lourdiane, B. Cabon, G. Maury, P. Lombard <i>Technologies for UWB-Over-Fiber</i> Papier invité, IEEE Radio and Wireless Symposium, Long Beach, Etats-Unis, janvier 2007
[2CI5]	M. Abdel Aziz, A. Safwat, F. Podevin, A. Vilcot <i>Narrow Bandpass Filter based on the Modified DGS</i> European Microwave Conference (EuMC), Munich, Allemagne, 9-11 octobre 2007
[2CI6]	L. Babour, R. Tamas, E. Fond, P. Saguet, S. Perrot <i>A folded dipole antenna for UWB applications</i> IET UWB, Grenoble, France, mai 2007
[2CI7]	L. Babour, R. Tamas, E. Fond, P. Saguet, S. Perrot <i>A folded dipole antenna for UWB applications</i> 19 ^{ème} Colloque International d’Optique Hertzienne et Diélectriques, Valence, France 5-8 septembre 2007
[2CI8]	L. Babour, R. Tamas, E. Fond, P. Saguet, S. Perrot, S. Borjes <i>An UWB folded dipole antenna: time and frequency domain characterization</i> IET EUCAP, Edinburgh, Ecosse, 11-17 novembre 2007
[2CI9]	M. Barakat, F. Ndagijimana, C. Delaveaud <i>Performance of a 0.13 μm SOI integrated 60 GHz dipole antenna</i> Antenna and propagation symposium, Hawaii, Etats Unis, juin 2007
[2CI10]	M. Barakat, F. Ndagijimana, C. Delaveaud <i>60 GHz Slot antenna integrated on SOI</i> Mediterranean, Microwave Symposium, Mobile Optical Wireless Week, Budapest, Hongrie, 14-16 mai 2007
[2CI11]	M. Barakat, F. Ndagijimana, C. Delaveaud <i>On the design of 60 GHz integrated antennas on 0.13 μm SOI technology</i> IEEE International SOI conference, Indian Wells, CA, Etats Unis, pp. 117-118, 1-4 octobre 2007
[2CI12]	M. Barakat, F. Ndagijimana, C. Delaveaud <i>Circularly Polarized Antenna on SOI for the 60 GHz Band</i> IET Eucap 2007, Edinburgh, Ecosse, 11-17 novembre 2007
[2CI13]	P. Ferrari, N. Corrao, D. Raully <i>Miniaturized Circular Patch Antenna with Capacitors Loading</i> International Microwave and Optoelectronics Conference, Salvador de Bahia, Brésil, 29 octobre - 1 ^{er} novembre 2007
[2CI14]	B. Cabon, S. Constant, G.N Guyen, Z.Yu, P.Y. Fonjallaz <i>All-optical systems for both frequency conversion of UWB signals and filtering</i> Broadband Europe Conference 2007, Anvers, Belgique, 3-6 décembre 2007

[2CI15]	P. Camus, D. Raully, O. Guillaudin, A. Monfardini, F. Podevin, N. Al Cheikh <i>Superconducting sub-millimeter diplexer suitable for pixel-size two-band bolometric detection</i> International Microwave and Optoelectronics Conference, Salvador de Bahia, Brésil, 29 octobre – 1 ^{er} novembre 2007
[2CI16]	S. Capraro, C. Bermond, T.T. Vo, J. Piquet, B. Fléchet, M. Thomas, A. Farcy, J. Torres, S. Cremer <i>Design improvement of RF 3D MIM damascene capacitor</i> 37 th IEEE European Solid-State Device Research Conference, Munich, Allemagne, conf proceedings, 11-13 septembre 2007
[2CI17]	S. Constant, Y. LE Guennec, G. Maury, G. Nguyen, M. Lourdiane, B. Cabon <i>All optical broadband frequency up-conversion for low-cost wireless access network</i> 19 ^{ème} Colloque International d'Optique Hertzienne et Diélectriques, Valence, France, 5-8 septembre 2007
[2CI18]	A. Farcy, M. Gallitre, V. Arnal, M. Sellier, L. Guibe, B. Blampey, C. Bermond, B. Fléchet, J. Torres <i>Evaluation of process parameters impact on propagation performance of the 32 nm technology node considering realistic application circuits</i> Materials for Advanced Metallization Conference, Bruges, Belgique, 4-7 mars 2007
[2CI19]	A. Farcy, M. Gallitre, V. Arnal, B. Fléchet, J. Torres <i>Circuit performance dependence on BEOL processes and variability</i> 24 th Advanced Metallization Conference, Albany, Etats Unis, 9 au 11 octobre 2007
[2CI20]	M. Gallitre, B. Blampey, B. Fléchet, A. Farcy, V. Arnal, C. Bermond, T. Lacrevez, J. Torres <i>Impact of porous SiOCH on propagation performance measured for narrow interconnects of the 45 nm node</i> Materials for Advanced Metallization Conference, Bruges, Belgique, 4 au 7 mars 2007
[2CI21]	M. Gallitre, L.G. Gosset, A. Farcy, B. Blampey, R. Gras, C. Bermond, B. Fléchet, J. Torres <i>Performance prediction of prospective air-gap architectures for the 22 nm node</i> IEEE International Interconnect Technology, San Francisco, Etats-Unis, 4-6 juin 2007
[2CI22]	T. Hoang, Ph. Benech, P. Rey, M. H. Vaudaine, P. Lemaitre-Auger, J.S. Danel, Ph. Robert <i>Trade-Off between Issues in AlN/SiO₂/Si Pressure Sensor</i> IEEE MEMSTECH Conference, conf proceedings, pp.142-147, Lviv-Polyana, Ukraine, 23-26 mai 2007
[2CI23]	C. Hoarau, P.E. Bailly, J.D. Arnould, Ph. Ferrari, P. Xavier <i>Adaptateur d'impédance bande étroite accordable en tension: Modélisation et Mesures</i> 19 ^{ème} Colloque International d'Optique Hertzienne et Diélectriques, Valence, France, 5-8 septembre 2007
[2CI24]	C. Hoarau, P.E. Bailly, J.D. Arnould, Ph. Ferrari, P. Xavier <i>A RF Tunable Impedance Matching Network with a Complete Design and Measurement Methodology</i> European Microwave Conference (EuMC), Munich, Allemagne, 9-11 octobre 2007
[2CI25]	H. Issa, J.M. Duchamp, P. Ferrari, <i>Miniaturisation de filtre à stubs et réduction des pertes à l'aide de capacités</i> 19 ^{ème} Colloque International d'Optique Hertzienne et Diélectriques, Valence, France, 5-8 septembre 2007
[2CI26]	D. Kaddour, J.D. Arnould, Ph. Ferrari <i>A Hybrid Miniaturized Ultra Wideband Bandpass Filter</i> European UWB Radio Technology Workshop, Grenoble, France, 10-11 mai 2007
[2CI27]	Y. Le Guennec, R. Gary <i>Optical Millimeter-Wave Frequency Conversion of Ultra Wide Band-Monocycle in UWB-over-Fiber Down-Link System</i> International Microwave and Optoelectronics Conference, Salvador de Bahia, Brésil, 29 octobre - 1er novembre 2007

[2CI28]	P. Lombard, M. Lourdiane, Y. LE Guennec, G. Maury <i>Transmission of MB-OFDM Signals over Optical Fiber using Direct and External Optical Modulations</i> European ISIS Workshop, Budapest, Hongrie, mai 2007
[2CI29]	P. Lombard, Y. Le Guennec, E. Novakov, J. M Fournier <i>Impact of Filters on the Performances of UWB MB-OOK Systems</i> European UWB Radio Technology Workshop, Grenoble, France, 10 au 11 mai 2007
[2CI30]	M. Li, R. E. Amaya, J.M. Duchamp, Ph. Ferrari, R. G. Harrison, N. G. Tarr <i>Low-Loss Low-Cost All-Silicon CMOS NLTLs for Pulse Compression</i> IEEE International Microwave Theory and Techniques Symposium, Honolulu, Etats Unis, 10-16 juin 2007
[2CI31]	M. Mabrouk, F. Ndagijimana, N. Corrao, Ph. Benech, A. Ghazel <i>On-Wafer Power Measurements of BAW Filters Non-Linearities</i> 70th ARFTG Microwave Measurements conference, Tempe, Arizona, 27-30 novembre 2007
[2CI32]	K. Merzouk, Y. LE Guennec, B. Cabon <i>Low Cost 10 Gb/s OTDM System</i> IEEE International Symposium on Signals, Systems, and Electronics (I.S.S.S.E), Montréal, Canada, 30 juillet – 2 août 2007
[2CI33]	M. Moukanda, F. Ndagijimana, J. Chilo, P. Saguet <i>Effet des Pertes et du Dopage Dans l'Extraction des Paramètres Electriques d'un Semi-conducteur en Utilisant une Sonde Coaxiale</i> 19 ^{ème} Colloque International d'Optique Hertzienne et Diélectriques, Valence, France, 5-8 septembre 2007
[2CI34]	M. Moukanda, F. Ndagijimana, J. Chilo, P. Saguet <i>A Cavity in Transmission for Extracting Electric Parameters of Thin Layers</i> IEEE International Symposium on Signals, Systems and Electronics (I.S.S.S.E), Montréal, Canada, 30 juillet - 2 août 2007
[2CI35]	M. Moukanda, F. Ndagijimana, J. Chilo, P. Saguet <i>Oxide Effect on the Doped Silicon-525µm Relative Permittivity Extracted by Using a Coaxial Probe Fixture</i> Mediterranean Microwave Symposium (M.M.S) and 12th Microcoll Conference, Budapest, Hongrie, conference proceeding, pp. 239-242, mai 2007
[2CI36]	M. Moukanda, F. Ndagijimana, J. Chilo, P. Saguet <i>Extraction De La Permittivité Complexe Du Silicium 525µm En Utilisant Deux Différentes techniques De La Sonde coaxiale</i> 6ème colloque TELECOM'2007 & 5ème J.F.M.M.A, Fès, Maroc, pp. 143-146, mars 2007
[2CI37]	M. Moukanda, F. Ndagijimana, J. Chilo, P. Saguet <i>Boundary effects in Extracting Complex Permittivity of Thin Layers Using a Coaxial Probe Fixture</i> 6ème colloque TELECOM'2007 & 5ème J.F.M.M.A, Fès, Maroc, pp. 425-428, mars 2007
[2CI38]	G. Nguyen, K. Merzouk, R. Gary, B. Cabon, S. Constant, G. Maury, Y. LE Guennec <i>IR-UWB Transmission in 40-GHz-Band using Optical Conversion by Cascaded Modulators</i> IEEE International Topical Meeting on Microwave Photonics, Victoria, Canada, 3-5 octobre 2007
[2CI39]	S. Paquelet + 22 co-auteurs BILBAO dont IMEP-LAHC (Ph. Benech, J.M Duchamp, Ph. Ferrari, E. Novakov, J.M Fournier, B. Cabon, M. Lourdiane, G. Maury, P. Lombard, Y. Le Guennec) <i>RNRT/BILBAO project: first results on UltraWide Band over fiber</i> European UWB Radio Technology, Workshop, Grenoble, 10-11 mai 2007
[2CI40]	J. Piquet, C. Bermond, M. Thomas, A. Farcy, T. Lacrevez, T.T. Vo, J. Torres, B. Fléchet <i>Optimization of RF performance of MIM damascene capacitors in backend of line</i> IEEE MTT-S International Microwave Symposium, Honolulu, Etats Unis, 3-8 juin 2007
[2CI41]	R. Tamas, L. Babour, E. Fond, P. Saguet, J. Chilo <i>Cylindrical Dipole Antennas for Ultra-Wide Band Applications</i> IET UWB, Grenoble, France, mai 2007

[2CI42]	R. Tamas, J. Chilo, Saguet <i>Evaluation of the Impulse Response of an Ultra-Wide Band Antenna by Deconvolution Using the Method of Moments</i> Antenna Technology : Small and Smart Antennas Metamaterials and Applications, IWAT '07. International Workshop, Vol 21-23, pp. 267-270, mars 2007
[2CI43]	M. Thomas, A. Farcy, M. Gros Jean, J. Piquet, C. Bermond, B. Fléchet, B. Chenevier, J. Torres <i>Reliable 3D damascene MIM architecture embedded into Cu interconnect for a Ta₂O₃ capacitor record density of 17 fF/μm²</i> IEEE Symposium on VLSI Technology, Kyoto, Japon, 12-14 juin 2007
[2CI44]	T. Hoang, P. Rey, M.H. Vaudaine, J.S. Danel, Ph. Robert, Ph. Benech, P. Lemaitre-Augert <i>Temperature-Compensated Structure For Saw Pressure Sensor In Very High Temperature</i> IEEE International Frequency Control Symposium, conf proceedings pp. 40-44, Genève, Suisse 29 mai – 1er juin 2007
[2CI45]	T.T. Vo, T. Lacrevez, B. Fléchet, A. Farcy, J. Piquet, C. Bermond, M. Thomas, J. Torres <i>Characterization at high frequency of high-k dielectrics integrated in passives devices</i> Materials for Advanced Metallization Conference, Bruges, Belgique, 4-7 mars 2007
[2CI46]	T.T. Vo, T. Lacrevez, B. Fléchet, A. Farcy, Y. Morand, S. Blonkowski, J. Torres, E. Defay <i>In-situ Microwave Characterization of Medium-k HfO₂ and High-k STO Dielectrics for MIM Capacitors Integrated in Back-End of Line of IC</i> IEEE Asia Pacific Microwave Conference, Bangkok, Thaïlande, 11-14 décembre 2007
[2CI47]	S. Voinot, E. Novakov, J.M Fournier, B. Chaillol, E. Ponthus <i>A Single-Chip Ultra Wideband Impulse Radio Transmitter, Adapted to Different Spectrum Regulations</i> European UWB Radio Technology Workshop, Grenoble, France, 10-11 mai 2007
[2CI48]	S. Voinot, E. Novakov, J.M. Fournier <i>An UWB Chip Adapted to the Different Regulations</i> Wireless Congress : Systems & Applications, Munich, Allemagne, 12-15 octobre 2007
[2CI49]	J. Yavand Hasani, M. Kamarei, F. Ndagijimana <i>Inductor Design and Optimization for Millimeter Wave Integrated Circuit Applications</i> PIMRC IEEE 18th International Symposium, Athènes, Grèce, 3-7 septembre 2007

Conférences Nationale Thème2 RFHO – 2007	
[2CN1]	B. Cabon <i>Perspectives de recherches à l'IMEP en optomicroondes</i> Invité, Réunion annuelle du club «optique et microondes » de la Société Française d'Optique, Lannion, 11 juin 2007
[2CN2]	M. Abdel Aziz, F. Podevin, A. Safwat, A. Vilcot <i>Structures coplanaires à défaut de plan de masse : application aux filtres réjecteur et passe-bande</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007
[2CN3]	L. Babour, P. Saguet, R. Tamas, E. Fond, S. Perrot <i>Conception d'antennes filaires Ultra large bande</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007
[2CN4]	T.T. Vo, T. Lacrevez, J. Piquet, C. Bermond, B. Fléchet, M. Thomas, A. Farcy, O. Cueto, J. Torres <i>Caractérisation hyperfréquence de diélectriques à haute permittivité déposés en couches minces pour les composants passifs intégrés</i> 5 ^{èmes} Journées Franco-Maghrébines des Microondes et leurs Applications, Fès, Maroc, 14-16 mars 2007
[2CN5]	L. Du villaret, J. Chevallier, J.M. Duchamp, J.D. Arnould, P. Ferrari <i>Filtre réjecteur de bande à géométrie de ligne périodique</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007

[2CN6]	M. Gallitre, B. Blampey, B. Fléchet, A. Farcy, V. Arnal, C. Bermond, T. Lacrevez, J. Torres <i>Impact du SiOCH poreux sur les performances HF d'interconnexions nanométriques pour la génération de circuits CMOS 45 nm</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007
[2CN7]	M. Gallitre, B. Blampey, B. Fléchet, A. Farcy, V. Arnal, C. Bermond, J. Torres <i>Modélisation des performances HF des Interconnexions nanométriques de circuits intégrés de futures génération : influence des barrières</i> 5 ^{ème} Journées Franco-Maghrébines des Microondes et leurs Applications, Fès, Maroc, 14-16 mars 2007
[2CN8]	R. Gary, J.D. Arnould, A. Vilcot <i>Amélioration de l'analyse de la diffusion de porteurs libres dans les dispositifs opto-microondes</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007
[2CN9]	Kaddour, J.D. Arnould, P. Ferrari <i>Filtre Passe-bande Ultra Large Bande en technologie hybride</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007
[2CN10]	Kaddour, J.M. Duchamp, P. Ferrari <i>Modélisation des pertes dans les structures périodiques et méta matériaux</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007
[2CN11]	M. Barakat, F. Ndagijimana, C. Delaveaud <i>Antenne F inversée (IFA) millimétrique en technologie SOI</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007
[2CN12]	K. Merzouk, Y. Le Guennec, B. Cabon <i>Impact du bruit des sources optiques dans un système optique de multiplexage temporel OTDM</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007
[2CN13]	M. Moukanda, F. Ndagijimana, J. Chilo, P. Saguet <i>Caractérisation des Matériaux Multicouches en Utilisant une Sonde Coaxiale en Présence d'un Plan de Masse</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007
[2CN14]	M. Moukanda, F. Ndagijimana, J. Chilo, P. Saguet <i>Extraction de la Permittivité Relative Complexe du Carbure de Silicium (SiC) à Partir d'une Sonde Coaxiale</i> 10 ^{ème} Journées Nationales du Réseau Doctoral en Microélectronique (J.N.R.D.M), Lille, mai 2007
[2CN15]	A.L. Perrier, J.M. Duchamp, P. Ferrari <i>Adaptateur d'impédance accordable</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007
[2CN16]	A.L. Perrier, J.M. Duchamp, P. Ferrari <i>Diviseur de puissance accordable</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007
[2CN17]	A.L. Perrier, J.M. Duchamp, P. Ferrari <i>Diviseurs/combineurs de puissance miniature et accordable</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007
[2CN18]	J. Piquet, C. Bermond, M. Thomas, A. Farcy, S. Capraro, T.T. Vo, J. Torres, B. Fléchet <i>Intégration de capacités IM pour applications RF dans le réseau d'interconnexions de circuits intégrés</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007
[2CN19]	E. Pistono, B. Blampey, C. Bermond, B. Flechet, M. Gallitre, A. Farcy, J. Torres <i>Caractérisation hyperfréquence de vias nanométriques entre niveaux métalliques d'interconnexions Cu/Low K de circuits intégrés avancés</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007
[2CN20]	E. Pistono, L. Duvillaret, J.M. Duchamp, A. Vilcot, P. Ferrari <i>Filtre passe-bande compact double accord</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007

[2CN21]	A. Triantafyllou, S. Capraro, G. Angénieux, B. Fléchet, J. Garnier, G. Perez, G. Guibaud, E. Doche <i>Détection et caractérisation non destructive par analyse TDR de défaillances électriques dans les circuits encapsulés</i> 15 ^{ème} Journées Nationales Micro-ondes (J.N.M), Toulouse, 23-25 mai 2007
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Thème Optoélectronique THz et Photonique « PHOTO »

Reuves internationales avec comité de lecture et ouvrages collectifs ou individuels	
[3R1]	E. Lecoarer, S. Blaize, P. Benech, I. Stefanon, A. Morand G. Lerondel, G. Leblond, P. Kern, J-M. Fédéli et P. Royer <i>Stationary Waves Integrated Fourier Transform Spectrometry (SWIFTS): towards an ultimate wavelength scale spectrometer</i> Nature Photonics, vol.1, pp.473-478
[3R2]	S. Olivier, L. Delage, F. Reynaud, V. Collomb, M. Trouillon, J. Grelin, I. Schanen, V. Minier, J.E. Broquin, C. Ruilier, B. Leone <i>High finesse electro-optic sensors with enhanced sensitivity and high spatial resolution</i> Applied Optics, vol. 46, pp. 834-844
[3R3]	L. Labadie, E. Le Coarer, R. Maurand, P. Labeye, P. Kern, B. Arezki, J.E. Broquin <i>Mid-infrared laser light nulling experiment using single-mode conductive waveguides</i> Astronomy and Astrophysics, vol. 471, pp. 355-360
[3R4]	C. Vigreux-Bercovici, E. Bonhomme, A. Pradel, J.E. Broquin, L. Labadie, P. Kern <i>Transmission measurement at 10.6 μm of $\text{Te}_2\text{As}_3\text{Se}_5$ rib-waveguides on As_2S_3 substrate</i> Applied Physics Letters, vol. 90, pp. 11110 (3 pages)
[3R5]	L. Abel-Tiberini, L. Labadie, B. Arezki, P. Kern, R. Grille, P. Labeye, J.E. Broquin <i>Transmission behaviors of single mode hollow metallic waveguides dedicated to mid-infrared nulling interferometry</i> Optics Express, vol.15, pp. 18005-18013
[3R6]	D. Bucci, J. Grelin, E. Ghibaudo, J.E. Broquin <i>Realization of a 980 nm/1550 nm wavelength (de)multiplexer made by ion-exchange on glass using a segmented asymmetric Y-junction</i> IEEE Photonics Technology Letters, vol. 19, pp. 698-700
[3R7]	J.L. Coutaz, F. Garet <i>Potentialité des ondes térahertz en imagerie</i> SEE Revue de l'Électricité et de l'Électronique, vol. 9, pp. 29-37
[3R8]	M. Nazarov, J.L. Coutaz, A. Shkurinov, F. Garet <i>THz surface plasmon jump between two metal edges</i> Optics Communications, vol. 277, pp. 33-39
[3R9]	H. Němec, P. Kuzel, J.L. Coutaz, J. Ctyroky <i>Transmission properties and band structure of a segmented dielectric waveguide for the terahertz range</i> Optics Communications, vol. 273, pp. 99-104
[3R10]	G. Gaborit, J.L. Coutaz <i>Vectorial electric field measurement using isotropic electro-optic crystals</i> Applied Physics Letters, vol. 90, pp. 241118 (3 pages)
[3R11]	Y. R. Nowicki-Biringuier, J. Claudon, C. Bökler, S. Reitzenstein, M. Kamp, A. Morand, A. Forchel, J.M. Gérard <i>High Q whispering gallery modes in GaAs/AlAs pillar microcavities</i> Optics Express, vol. 15, pp. 17291-17304
[3R12]	S. Olivier, L. Delage, F. Reynaud, V. Collomb, M. Trouillon, J. Grelin, I. Schanen, V. Minier, J.E. Broquin, C. Ruilier, B. Leone <i>The MAFL experiment: development of photonic devices for a space-based Multi-Aperture Fiber-Linked Interferometer</i> Applied Optics, vol. 46, pp. 834-844
[3R13]	N. Tosa, G. Vitrant, P.L. Baldeck, O. Stephan, S. Astilean, I. Grosu <i>Two-Photon Laser Deposition of Gold Nanowires</i> J. optoelectronics and adv. Mat, vol. 9, pp. 641-645

Conférences Internationales (avec comité de sélection et publications des actes)

[3CI1]	J. E. Broquin <i>Glass Integrated optics: state of the art and position towards other technologies</i> Photonic West Invitée, vol. 6475, p. 647507, San José, Californie, 20-24 janvier 2007
[3CI2]	J.E. Broquin <i>Integrated Optics on glass for photonic digital processing</i> Invitée, IEEE Photonics in Switching Conference San Francisco, Californie 19-23 août 2007
[3CI3]	J.E. Broquin, E. Ghibaudo, L. Bastard <i>Integrated optics: passive and active devices made by ion-exchange on glass</i> Invitée, Asia Pacific Optical Communication SPIE Conference Wuhan, Chine, 1-5 novembre 2007
[3CI4]	J. Grelin, D. Bucci, E. Ghibaudo et J.E. Broquin <i>Three-dimensional integration of passive functions on glass by means of selectively buried waveguides and multiple ion-exchanges</i> Photonic West, vol. 6475, p. 64750A, San José, Californie, 20-24 janvier 2007
[3CI5]	M. Nazarov, A. Shkurinov, J.L. Coutaz, F. Garet <i>Terahertz Plasmon Propagation on Flat and Gaped Metal Surface</i> NANOMETA 2007 (First Topical Meeting on Nanophotonics and Metamaterials) Seefeld, Autriche, 8-11 janvier 2007
[3CI6]	J.L. Coutaz, F. Garet, D. Armand, Y. Laamiri, M. Nazarov <i>Guiding THz waves in a periodic structure</i> Invitée, International Symposium “Topical Problems of Biophotonics 2007” Nizni Novgorod – Russie, 4-11 août 2007
[3CI7]	D. Armand, F. Garet, J.L. Coutaz, Y. Todorov, C. Minot <i>Evidence of surface plasmon-like wave propagation along a 1D metallic grid</i> International Conference on Infrared and Millimeter Waves Cardiff, Royaume-Uni, 27 septembre au 1 ^{er} octobre 2007
[3CI8]	L. Du villaret, F. Garet, J.L. Coutaz <i>Trays: from academic research to industrial applications</i> Invitée Hertzian Optics and Dielectrics Valence, France, 5-8 septembre 2007
[3CI9]	H. Němec, V. Sundström, P. Kužel, F. Kadlec, L. Du villaret <i>Control of photonic crystals operating in the terahertz region</i> European Topical Meeting on Nanophotonics and Metamaterials Seefeld – Autriche, 8-11 janvier 2007
[3CI10]	M. Bernier, L. Du villaret, G. Gaborit, A. Paupert, J. L. Lasserre <i>Vectorial measurement of guided or radiated microwave electric fields by a temporally stable pigtailed electro optic sensor</i> Hertzian Optics and Dielectrics, Valence – France, 5-8 septembre 2007
[3CI11]	M. Bernier, L. Du villaret, G. Gaborit, A. Paupert, J.L. Lasserre <i>Temperature-dependent-free pigtailed electro-optic sensors for vectorial measurement of microwave signals</i> IEEE Sensors Conference Atlanta Géorgie, Etats-Unis, 28-31 octobre 2007
[3CI12]	M. Bernier, G. Gaborit, G. Martin, L. Du villaret, J.L. Coutaz, J.L. Lasserre <i>Vectorial characterization of single-shot high power microwave pulses using pigtailed electro-optic sensors under outdoors conditions</i> Conference on Lasers and Electro-Optics (CLEO) Munich – Allemagne, 17-22 juin 2007

[3CI13]	M. Nazarov, A. Shkurinov, D. Armand, F. Garet, J.L. Coutaz <i>Terahertz Plasmon Propagation on Flat and Corrugated Metal Surface</i> International Conference on Infrared and Millimeter Waves Cardiff – Royaume-Uni, 27 septembre-1 octobre 2007
[3CI14]	B. Martin, A. Morand, P. Benech, G. Leblond, S. Blaize, G. Lerondel, P. Royer and E. Lecoarer,” <i>2D numerical model of bent waveguide using RCWA and PML developed to simulate a spectrograph in integrated optics</i> XVI International Workshop on OWTNM, Copenhagen, Danemark, 27-28 avril 2007
[3CI15]	A. Armaroli, A. Morand, P. Benech, G. Bellanca and S. Trillo <i>3D modelling of microdisk resonators based on Fourier modal method</i> XVI International Workshop on OWTNM Copenhagen, Danemark, 27-28 avril 2007
[3CI16]	J.M. Delord, J.F. Roux, J. L. Coutaz, C. Canseliet, A. Krotkus, S. Formont, J. Chazelas <i>Sampling of RF signals with LTG-GaAs based MSM structures</i> Conference on Lasers and Electro-Optics (CLEO) Munich, Allemagne, 17-22 juin 2007
[3CI17]	G. Vitrant, J. Bosson, N. Tosa, T. Rosenzweig, O. Stéphane, S. Astilean et P. L. Baldeck <i>Observation of optical dispersion effects in metallic nanostructures fabricated by laser illumination of an organic polymer matrix doped with metallic salts</i> Invitée , Photonic West, vol. 6470, pp. 647000.1-9, San José – Californie, 20-24 janvier 2007

Thèses et habilitations

[T1]	<p>M. Bawedin <i>Transient floating-body effects in UTF SOI MOSFETs: modelling, experimental impact and memory application</i> Thèse de Doctorat de l'INPG, soutenue le 21 septembre 2007 à Grenoble</p>
[T2]	<p>B. Blampey <i>Développement de méthodes de modélisation et de caractérisation hyperfréquences des réseaux d'interconnexions de circuits intégrés sub-CMOS 65 nm</i> Thèse de Doctorat de l'Université de Savoie, soutenue le 10 mai 2007 à Chambéry</p>
[T3]	<p>G. Borot <i>Dépôts Si et SiGe fortement dopés pour transistors bipolaires avancés</i> Thèse de Doctorat de l'INPG, soutenue le 17 décembre 2007 à Grenoble</p>
[T4]	<p>F. Chelfouh <i>Contribution à l'étude des non-linéarités du troisième ordre des mélangeurs BiCMOS</i> Thèse de Doctorat de l'INPG, soutenue le 15 octobre 2007 à Grenoble</p>
[T5]	<p>S. Danaie <i>Etude de l'appariement des transistors bipolaires à hétérojonction Si/SiGe issus de technologies Bicmos</i> Thèse de Doctorat de l'INPG, soutenue le 20 décembre 2007 à Grenoble</p>
[T6]	<p>De Beaumont <i>Mise en œuvre de diélectriques thermiquement conducteurs dans la technologie Smart-Cut de substrats SOI</i> Thèse de Doctorat de l'INPG, soutenue le 30 avril 2007 à Grenoble</p>
[T7]	<p>S. Eminente <i>Modelling and characterization of decananometric electronic devices</i> Thèse de Doctorat de l'INPG, soutenue le 30 mars 2007 à Bologna (Italie)</p>
[T8]	<p>F. Evennou <i>Techniques et technologies de localisation avancées pour terminaux mobiles dans les environnements indoor</i> Thèse de Doctorat de l'Université Joseph Fourier (UJF), soutenue le 22 janvier 2007 à Grenoble</p>
[T9]	<p>M. Ferrier <i>Modélisation analytique du transport balistique et quasi-balistique dans les MOSFETs avancés</i> Thèse de Doctorat de l'INPG, soutenue le 12 février 2007 à Grenoble</p>
[T10]	<p>M. Gaillardin <i>Etude de la sensibilité des dispositifs nanoélectroniques ultimes à base de SOI face aux particules des environnements terrestres et spatiaux</i> Thèse de Doctorat de l'INPG, soutenue le 24 septembre 2007 à Grenoble</p>
[T11]	<p>C. Gallon <i>Architectures avancées de transistors CMOS SOI pour le noeud 32 nm et en deçà : films ultras-fins, contraintes mécaniques, BOX mince et plan de masse</i> Thèse de Doctorat de l'INPG, soutenue le 1^{er} juin 2007 à Grenoble</p>
[T12]	<p>J. Grelin <i>Développement d'une technologie d'optique intégrée dans la bande spectrale comprise entre 2 et 4 μm</i> Thèse de Doctorat de l'INPG, soutenue le 3 décembre 2007 à Grenoble</p>
[T13]	<p>D. Kaddour <i>Conception et réalisation de filtres RF passe-bas à structures périodiques et filtres à Ultra Large Bande, semi-localisées en technologie planaire</i> Thèse de Doctorat de l'Université Joseph Fourier (UJF), soutenue le 11 juillet 2007 à Grenoble</p>

[T14]	Ph. Lombard <i>Etude de l'impact du filtrage et des non-linéarités sur les signaux ULB dans les front-end radio-fréquence et les réseaux hybrides optiques</i> Thèse de Doctorat de l'Université Joseph Fourier (UJF), soutenue le 3 décembre 2007 à Grenoble
[T15]	L. Lucci <i>Modeling of advanced nanometer scale MOSFETs devices with the Multi-Subband Monte Carlo approach</i> Thèse de Doctorat de l'INPG, soutenue le 24 janvier 2007 à Grenoble
[T16]	P. Mora <i>Etude et caractérisation de la fiabilité de cellules mémoire non volatiles pour des technologies CMOS et BICMOS avancées</i> Thèse de Doctorat de l'INPG, soutenue le 28 juillet 2007 à Grenoble
[T17]	J. Mitard <i>Etude des propriétés électrique d'empilements HIGH-K/grille métal en vue de leur intégration dans les dispositifs CMOS SUB-45nm.</i> Thèse de Doctorat de l'INPG, soutenue le 12 avril 2007 à Grenoble
[T18]	L. Poffo <i>Etudes des interactions acousto-optiques en optique intégrée sur verre</i> Thèse de Doctorat de l'Université Joseph Fourier (UJF) , soutenue le 28 novembre 2007 à Grenoble
[T19]	J. Piquet <i>Caractérisation et modélisation hyperfréquences de capacités Métal-Isolant-Métal intégrées pour les technologies CMOS sub 90 nm</i> Thèse de Doctorat de Université de Savoie, soutenue le 14 juin 2007 à Grenoble
[T20]	B. Racht <i>Eclairage évanescent pour l'excitation de fluorescence : détection de marqueurs individuels en environnement fluorescent pour le suivi en temps réel d'une cinétique de réaction biologique</i> Thèse de Doctorat de l'INPG, soutenue le 14 septembre 2007 à Grenoble
[T21]	M. Reyboz <i>Modélisation analytique de transistors double grille à effet de champ en technologie sub-45nm</i> Thèse de Doctorat de l'INPG, soutenue le 26 juin 2007 à Grenoble
[T22]	L. Zafari <i>Caractérisation et Modélisation du bruit basse fréquence dans les architectures SOI avancées</i> Thèse de Doctorat de l'INPG, soutenue le 30 novembre 2007 à Grenoble