

## LISTES DES PUBLICATIONS 2012

[1R1]	N. Boudou, A. Monfardini, C. Hoffmann, F. Podevin, P. Xavier and M. Calvo "Development of Kinetic Inductance Stationary-Wave Integrated Fourier-Transform Spectrometry (SWIFTS)", <i>Journal Low Temp Phys</i> , Vol. 167, No. 3-4, pp. 386–391, Jan. 2012.
[1R2]	X. Tang, E. Pistono, P. Ferrari, and J.-M. Fournier "Enhanced Performance of 60-GHz Power Amplifier by using Slow-wave Transmission Lines in 40 nm CMOS Technology ", <i>International Journal of Microwave &amp; Wireless Technology</i> , Vol. 4, pp. 93-100, Feb. 2012.
[1R3]	G. Rehder, T. Vo, and P. Ferrari "Development of a slow-wave MEMS phase shifters on CMOS technology for millimeter wave frequencies", <i>Microelectronic Engineering</i> , Vol. 90, pp. 19-22, Feb. 2012.
[1R4]	A.-L. Franc, E. Pistono, and P. Ferrari "Characterization of Thin Dielectric Films up to Mm-wave Frequencies Using Shielded CoPlanar Waveguide Transmission Lines", <i>IEEE Microw. &amp; Wireless Compon. Lett.</i> , Vol. 22, No. 2, pp. 100-102, Feb. 2012.
[1R5]	W. Sahyoun, J.M. Duchamp, Ph. Benech "Coupled Resonator Filters: wide-band modeling, frequency versus pseudo-time characterizations", <i>Microelectronic Engineering</i> , Vol. 90, pp. 15-18, Feb. 2012.
[1R6]	M. Abdel Aziz, H. Issa, D. Kaddour, F. Podevin, A.M.E. Safwat, E. Pistono, J.-M. Duchamp, A. Vilcot, J.-M. Fournier, and P. Ferrari "Slow-wave high-Q coplanar striplines in CMOS technology and their RLCG model", <i>Microwave and Optical Technology Letters</i> , Vol. 54, Issue 3, pp. 650-654, March 2012.
[1R7]	A. L. C. Serrano, F. S. Correra, T.-P. Vuong, and P. Ferrari "Synthesis Methodology Applied to a Tunable Patch Filter With Independent Frequency and Bandwidth Control", <i>IEEE Trans. on Microwave Theory Tech.</i> , Vol. 60, No. 3, pp. 484-493, March 2012.
[1R8]	T. Quemerais, L. Moquillon, J.M. Fournier, P. Benech, and V. Huard "Design-in-Reliable Millimeter-Wave Power Amplifiers in a 65-nm CMOSProcess ", <i>IEEE Trans. on Microwave Theory Tech.</i> , Vol. 60 , No. 4, pp. 1079–1085, Apr. 2012.

[1R9]	X. Tang, A.-L. Franc, E. Pistono, A. Siligaris, P. Vincent, P. Ferrari, and J.-M. Fournier "Performance Improvement versus CPW and Loss Distribution Analysis of Slow-wave CPW in 65 nm HR-SOI CMOS Technology", <i>IEEE Trans. on Electron Device</i> , Vol. 59, No. 5, pp. 1279-1285, May 2012.
[1R10]	A.-L. Franc, E. Pistono, D. Gloria, and P. Ferrari "High-performance Shielded Coplanar Waveguides for the Design of CMOS 60-GHz Band-pass Filters", <i>IEEE Trans. on Electron Device</i> , Vol. 59, No.5, pp. 1219 - 1226, May 2012.
[1R11]	F. Belmas, F. Hameau, J.M. Fournier "A Low Power Inductorless LNA with Double $G_m$ enhancement in 130nm CMOS", <i>IEEE Journal of Solid State Circuit</i> , Vol. 47, No. 5, pp. 1094-1103, May 2012.
[1R12]	T. BERTAUD, C. BERMOND, S. BLONKOWSKI, C. VALLÉE, T. LACREVAZ, A. FARCY, B. Fléchet "DC to Radio-Frequency Characterization of $ZrO_2$ Dielectric for "Metal-Insulator-Metal" Integrated Capacitors" <i>IEEE Trans. on Components, Packaging and Manufacturing Technology</i> , Vol. 2, No. 3, pp 502-509, March 2012
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Conférences Internationales (avec Comité de Lecture) – Thème2 – RFM – 2012	
[2CI1]	F. Burdin, F. Podevin, B. Blampey, N. Corrao, E. Pistono and P. Ferrari "Millimeter-Wave Rat-Race Balun in a CMOS 65 nm Technology with Slow-Wave Transmission lines and innovative topology ", PIERS 2012, Moscow, Russia, Aug. 19-23, 2012.
[2CI2]	A.-L. Franc, F. Podevin, E. Pistono, G. Rehder, A. Serrano, F. Burdin, T. Xiaolan, J.-M. Fournier, and P. Ferrari "Slow-wave transmission lines for millimeter-wave integrated circuits: State-of-the art and Prospects", <i>NANOFUNCTION ESSDERC/ESSCIRC Workshop on Novel Material, Devices and technologies for High Performance On-Chip Applications</i> , Bordeaux, France, Sept. 21, 2012. <b>Invited paper</b> .
[2CI3]	A.-L. Franc, A. Serrano, G. Rehder, F. Podevin, L. Cagnon, and P. Ferrari "Metallic Nanowire Filled Membrane for Slow Wave Microstrip Transmission Lines", <i>International Semiconductor Conference Dresden-Grenoble</i> , ISCDG 2012, Grenoble, France, Sept. 24-26, 2012.
[2CI4]	A.-L. Franc, G. Rehder, and P. Ferrari "A Millimeter-Wave Integrated Sensor for the Dielectric Constant Characterization of Pico-Liter Volumes of Liquids", <i>International Semiconductor Conference Dresden-Grenoble</i> , ISCDG 2012, Grenoble, France, Sept. 24-26, 2012.
[2CI5]	A. Serrano, F. Podevin, G. Rehder, L. Cagnon, and P. Ferrari "Nanowires based membrane as an interposer for mm waves applications ", <i>Micro&amp;Nano Conference</i> , Heraklion, Greece, Oct. 7-10, 2012.
[2CI6]	F. Podevin, A. Serrano, G. Rehder, A.-L. Franc, L. Cagnon, and P. Ferrari "Slow-wave Microstrip Lines on a Nanowire based Alumina Membrane", <i>Micro&amp;Nano Conference</i> , Heraklion, Greece, Oct. 7-10, 2012.
[2CI7]	M. Akra, H. Issa, E. Pistono, A. Jrad, and P. Ferrari "Parallel-Coupled Stub-Loaded Resonator Filters with Wide Spurious Suppression", <i>42th European Microwave Conference</i> , EuMC'12, Amsterdam, Nederland, Oct. 30-Nov. 1, 2012.
[2CI8]	H. Issa, J.-M. Duchamp, S. Abouchahine, and P. Ferrari "Capacitive Loading for Miniaturization and Performance Improvement of Transmission Lines", <i>Second International Conference on Advances in Computational Tools for Engineering Applications</i> , Notre Dame University, Lebanon, Dec. 12-15, 2012.

[2CI9]	M. Ould Elhassen, M. Mabrouk, Ph. Benech and A. Ghazel "New Tunable Phase Shifter Using Loaded Stepped Impedance Structure", IPWiS 2012, 16-18 March 2012, Sousse Tunisia.
[2CI10]	M. Ould Elhassen, M. Mabrouk, P. Benech and A. Ghazel "Tunable Coupled Line Phase Shifter based on Modified Schiffman Approach", IPWiS 2012, 16-18 March 2012, Sousse Tunisia.
[2CI11]	S. Ighilahriz, F. Cacho, L. Moquillon, S. Razafimandimby, F. Blanchet, J. Morelle, N. Corrao, V. Huard, P. Garcia, C. Arnaud, J.M. Fournier, P. Benech "Reliability study under DC stress on mmW LNA, Mixer and VCO", IRPS 2012, 15-19 April 2012, Anaheim, California, USA.
[2CI12]	T. Lim, J. Jimenez, P. Benech, J.-M. Fournier , B. Heitz, P. Galy "Model and measurements of a Transmission Line with Integrated Symmetrical 1-kV HBM Broadband ESD Protection in Advanced CMOS Technologies", <i>International Semiconductor Conference Dresden-Grenoble</i> , ISCDG 2012, Grenoble, France, Sept. 24-26, 2012.
[2CI13]	C.-L. Hsu, G. Ardila, P. Benech "High Frequency Characterization and Modeling of Single Metallic Nanowire", <i>International Semiconductor Conference Dresden-Grenoble</i> , ISCDG 2012, Grenoble, France, Sept. 24-26, 2012.
[2CI14]	C. Hsu, P. Benech, G. Ardila "A de-embedding technique for metallic nanowires in microwave characterization", Micro&Nano2012, 7-10 October 2012, Heraklion, Greece.
[2CI15]	S. Ighilahriz, F. Cacho, V. Huard, L. Moquillon, J.M. Fournier, P. Benech "HBT reliability modelling discussion for RF and mmW applications", IIRW 2012, Fallen Leaf Lake, CA, October 14-18, 2012.
[2CI16]	T. Lim, J. Jimenez, P. Benech, J.-M. Fournier , B. Heitz, P. Galy "Geometrical Impact on RF performances of Broadband ESD Self Protected Transmission Line in Advanced CMOS Technologies", IIRW 2012, Fallen Leaf Lake, CA, USA, October 14-18, 2012.
[2CI17]	C. Hsu, P. Benech, G. Ardila "Parameters Extraction of Submicron Thin Film Microstrip Lines at Broadband mm-wave Frequencies", EuMIC, October 28th - November 2nd 2012, Amsterdam.
[2CI18]	T. Lim, J. Jimenez, P. Benech, J.-M. Fournier , P. Galy "Transmission Line with Integrated Symmetrical 1-kV HBM DC - 100 GHz ESD Protection in Advanced CMOS Technologies", EuMIC 2012, October 28 <sup>th</sup> - November 2 <sup>nd</sup> 2012, Amsterdam.

[2CI19]	<p>W. Sahyoun, P. Benech, J. Duchamp</p> <p>"Nonlinear behavior of Coupled Resonator Filter at high RF power levels in time and frequency domains", <i>42th European Microwave Conference</i>, EuMC'12, Amsterdam, Nederland, Oct. 30-Nov. 1, 2012.</p>
[2CI20]	<p>T. Lim, J. Jimenez, B. Heitz P. Benech, J.-M. Fournier, P. Galy</p> <p>"Transmission Line with 2kV HBM Broadband ESD Protection using BIMOS and SCR in Advanced CMOS Technologies", <i>APMC 2012</i>, Kaohsiung, Taiwan. (<b>Best student paper</b>)</p>
[2CI21]	<p>Ph. Benech</p> <p>"Design, realization and characterization of metallic nanolines and nanoantennas with RF pads", <i>NANOFUNCTION ESSDERC/ESSCIRC Workshop on Novel Material, Devices and technologies for High Performance On-Chip Applications</i>, Bordeaux, France, Sept. 21, 2012. <b>Invited paper</b>.</p>
[2CI22]	<p>P. Bousseaud, E. Novakov and J.-M. Fournier « A Low-Power Passive Mixer Receiver for Software Defined Radio (SDR) » Applications, IARIA journals on ICDT 2012, Chamonix, France, 29 Aril-4 May, 2012.</p>
[2CI23]	<p>P. Bousseaud, E. Novakov and J.-M. Fournier, « A 130nm Low power Software-Defined radio receiver », Asia-Pacific Microwave Conference, Kaohsiung, Taiïwan, 4-7 July, 2012.</p>
[2CI24]	<p>L. Fourneaud, T. Lacrevaz, C. Bermond, J. Charbonnier, C. Fuchs, A. Farcy, Y. Gaeremynck, B. Fléchet</p> <p>"Refined but Handy Electrical Models of TSV Useable from Low to High Density and for RF or Fast Digital Signals in 3D-IC", IEEE 62<sup>nd</sup> Electronic Components and Technology Conf., San Diego, USA, May 29 – June 1, 2012</p>
[2CI25]	<p>E. Eid, T. Lacrevaz, G. Houzet, C. Bermond, B. Fléchet, A. Farcy, F. Calmon, P. Leduc,</p> <p>"Effects of silicon substrate coupling phenomena on signal integrity for RF or high speed communications in 3D-IC.", IEEE 62<sup>nd</sup> Electronic Components and Technology Conf., San Diego, USA, May 29 – June 1, 2012</p>
[2CI26]	<p>J. Roullard, A. Farcy, S. Capraro, T. Lacrevaz, C. Bermond, G. Houzet, J. Charbonnier, C. Fuchs, C. Ferrandon, P. Leduc, B. Flechet</p> <p>'Evaluation of 3D Interconnect Routing and Stacking Strategy to Optimize High Speed Signal Transmission for Memory on Logic", IEEE 62<sup>nd</sup> Electronic Components and Technology Conf., San Diego, USA, May 29 – June 1, 2012</p>

[2CI27]	M. Brocard, E. Eid, T. Lacrevaz, C. Bermond, G. Houzet, A. Farcy, P. Leduc, B. Fléchet "Focus on Links between High Frequency Substrate Noise and High Speed Signal Transmission in Interconnection Channels of 3D-IC", Micro-Nano-Electronics Packaging & Assembly, Design and Manufacturing, Grenoble, France, 25-26 April 2012
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Conférences Nationale Thème2 RFM – 2012	
[2CN1]	T.T.Vo, G. Rehder, F. Podevin, A-L Franc, and P. Ferrari "Faisabilité de réalisation de lignes à onde lente accordables pour l'application de déphaseur dans la gamme de fréquence millimétrique", 12èmes Journées de Caractérisation Microondes et Matériaux, JCMM'12, Chambéry, France, 28-30 Mars 2012.

[2CN2]	I. Kharrat, M.Nguyen, P. Xavier, G. Eymin Petot Tourtollet, J-M.Duchamp, Ph. Benech, T.-P. Vuong « Caractérisation de papiers pour une application radio en électronique imprimée », ", 12èmes Journées de Caractérisation Microondes et Matériaux, JCMM'12, Chambéry, France, 28-30 Mars 2012.
[2CN3]	W. Sahyoun, Ph. Benech, J-M. Duchamp "Caractérisation en puissance des filtres CRF et extraction d'un modèle non linéaire des paramètres de l'AIN", 12èmes Journées de Caractérisation Microondes et Matériaux, JCMM'12, Chambéry, France, 28-30 Mars 2012.
[2CN4]	G. Houzet, T. LacrevaZ, C. Bermond, A. Le Febvrier, S. Députier, M. Guilloux-Viry, K. Blary, B. Fléchet « Extraction entre 40 MHz et 67 GHz de la permittivité complexe du KTa <sub>0.65</sub> Nb <sub>0.35</sub> O <sub>3</sub> déposé en couche mince », 12 <sup>e</sup> Journées Caractérisation Microondes et Matériaux, Chambéry, 28-30 mars 2012
[2CN5]	C. Bermond, J. Abergel, G. Le Rhun, E. Defay, G. Houzet, T. LacrevaZ, B. Flechet « Etude jusqu'à 60 GHz d'une capacité ferroélectrique de PbZrO <sub>0.52</sub> TiO <sub>0.48</sub> O <sub>3</sub> », 12 <sup>e</sup> Journées Caractérisation Microondes et Matériaux, Chambéry, 28-30 mars 2012
[2CN6]	T. Eudes, B. Ravelo, T. LacrevaZ, et B. Fléchet, « Influence de la température sur l'intégrité des signaux haut débit véhiculés dans les interconnexions de PCB », 12 <sup>e</sup> Journées Caractérisation Microondes et Matériaux, Chambéry, 28-30 mars 2012
[2CN7]	P. Queffelec, V. Laur, F. Rasoanoavy, J-M. Le Floch, D. Passerieux, D. Cros, V. Madrangeas, A. Le Febvrier, S. Députier, M. Guilloux-Viry, G. Houzet, T. LacrevaZ, C. Bermond, B. Fléchet « Inter comparaison de caractérisations électromagnétiques de couches minces ferroélectriques », 12 <sup>e</sup> Journées Caractérisation Microondes et Matériaux, Chambéry, 28-30 mars 2012
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