

CONFERENCE PRESENTATIONS

2015

2014

2013

2012

2011

2010

2009

2008

2007

2006

2005

2004

2003

2002

2015

INVITED PRESENTATIONS

Ultra-fast three terminal perpendicular spin-orbit torque MRAM

Boulle, O., M. Cubukcu, C. Hamelin, N. Lamard, L.D. Buda-Prejbeanu, N. Mikuszeit, K. Garello, P. Gambardella, J. Langer, B. Ocker, I.M. Miron and G. Gaudin
SPIE Optics+Photonics Conference, San Diego (USA), Aug. 9-13 2015

Spin-orbit torque-driven ultra-fast magnetization reversal in nanodots

Buda-Prejbeanu, L.D., N. Mikuszeit, O. Boulle, I.M. Miron and G. Gaudin
Recent Trends in Nanomagnetism, Spintronics and their Applications, Ordizia (Spain), Jun. 30-Jul. 3 2015

Spin transfer phenomena

Chshiev, M.
European School on Magnetism, Cluj-Napoca (Romania), Aug. 24-Sep. 4 2015

Anatomy of spin-orbit phenomena at FM/NM interfaces

Chshiev, M.
Energy, Materials and Nanotechnology Conference, Phuket (Thailand), May 4-7 2015

Anatomy of spin-orbit phenomena at FM/NM interfaces

Chshiev, M.
Workshop on Spin-Orbit Coupling in Surface or Interface States, Spetses (Greece), Jun. 8-12 2015

Perpendicular magnetic tunnel junctions with single and double MgO barriers for STT-MRAM cells

Cuchet, L., A. Timopheev, P.-Y. Clément, B. Rodmacq, S. Auffret, C. Baraduc, R.C. Sousa, I.L. Prejbeanu, M. Chshiev and B. Dieny
International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

MRAM 1 (MTJ, Field driven MRAM)

Dieny, B.
Introductory Course on Magnetic Random Access Memory, Grenoble (France), Jul. 1-3 2015

MRAM 2 (STT-RAM)

Dieny, B.
Introductory Course on Magnetic Random Access Memory, Grenoble (France), Jul. 1-3 2015

MRAM 3 (Thermally Assisted MRAM, 3-terminal MRAM)

Dieny, B.
Introductory Course on Magnetic Random Access Memory, Grenoble (France), Jul. 1-3 2015

Spin torque driven magnetization dynamics

Ebels, U.

International Summer School "Nicolás Cabrera", Madrid (Spain), Jul. 11-16 2015

Mechanical magnetometry

Klein, O.

[Gordon Research Conference on Spin Dynamics in Nanostructures](#), Hong Kong (China), Jul. 26-31 2015

Full control of the spin-wave damping in a magnetic insulator using spin-orbit torque

Klein, O.

[American Physical Society March Meeting](#), San Antonio (USA), Mar. 2-6 2015

Ferromagnetic resonance spectroscopy

Klein, O.

5th Nanoscale Magnetic Resonance Imaging Conference, Toronto (Canada), Jul. 27-31 2015

Generation of coherent spin-wave modes in YIG disks by spin-orbit torque

Klein, O.

Workshop on Spin Mechanics, Munich (Germany), Jun. 22-26 2015

Ultrafast deterministic switching in STT-MRAM with orthogonal polarizing layers

Lacoste, B., M. Marins de Castro Souza, T. Devolder, R.C. Sousa, L.D. Buda-Prejbeanu, S. Auffret, U. Ebels, C. Ducruet, I.L. Prejbeanu and L. Vila

York-Tohoku-Kaiserslautern Spintronics Workshop, York (United Kingdom), Jun. 11-13 2015

A non-volatile error correcting dual modular redundancy structure for harsh environments

Lopes, J., G. di Pendina, E. Beigné and L. Torres

IEEE International Symposium on VLSI, Montpellier (France), Jul. 8-10 2015

MRAM process and test

Prejbeanu, I.L.

Introductory Course on Magnetic Random Access Memory, Grenoble (France), Jul. 1-3 2015

Chiral effects in domain wall propagation and nucleation in Pt/Co/AIO_x and Pt/Co/GdO_x

Pizzini, S., J. Vogel, S. Rohart, L.D. Buda-Prejbeanu, I.M. Miron, G. Gaudin, O. Boulle, E. Jué and A. Thiaville

European Materials Research Society Spring Meeting, Lille (France), May 11-15 2015

Microelectronics basics 1

Prenat, G.

Introductory Course on Magnetic Random Access Memory, Grenoble (France), Jul. 1-3 2015

Microelectronics basics 2

Prenat, G.

Introductory Course on Magnetic Random Access Memory, Grenoble (France), Jul. 1-3 2015

Influence of interlayer coupling on spin torque-driven excitations in nanopillar structures

Romera, M., E. Montebancho, B. Lacoste, F. Garcia-Sanchez, A.S. Jenkins, D. Gusakova, L.D. Buda-Prejbeanu, B. Dieny and U. Ebels

Magnonics Conference, Seeon (Germany), Aug. 2-6 2015

Perpendicular anisotropy tunnel junction optimization for MRAM cells

Sousa, R.C., L. Cuchet, B. Rodmacq, S. Auffret and B. Dieny

8th International Conference on Materials for Advanced Technologies, Suntec (Singapore), Jun. 28-Jul. 3 2015

Inducing magnetism in graphene via proximity effects and vacancies

Yang, H.X.

Energy, Materials and Nanotechnology Conference, Phuket (Thailand), May 4-7 2015

Anatomy of spin-orbit phenomena at ferromagnetic/non-magnetic material interfaces

Yang, H.X., A. Hallal, B. Dieny, A. Thiaville, S. Rohart, A. Fert and M. Chshiev

SPIE Optics+Photonics Conference, San Diego (USA), Aug. 9-13 2015

Anatomy of Dzyaloshinskii-Moriya interaction at Co/Pt interfaces

Yang, H.X., A. Thiaville, S. Rohart, A. Fert and M. Chshiev

International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

ORAL AND POSTER PRESENTATIONS

Bridging amount of spin-glasses over ferromagnetic/antiferromagnetic thin films and bit-cell dispersion of exchange bias in corresponding TA-MRAM devices

Akmaldinov, K., C. Ducruet, J. Alvarez-Hérault and V. Baltz

Oral: [American Physical Society March Meeting](#), San Antonio (USA), Mar. 2-6 2015

Bridging amount of disordered magnetic phases located over ferromagnetic/antiferromagnetic thin films and cell variability of exchange bias in corresponding TA-MRAM chips

Akmaldinov, K., L. Frangou, C. Ducruet, C. Portemont, J. Pereira, I. Joumard, B. Dieny, J. Alvarez-Hérault and V. Baltz

Oral: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Modulation of the amplitude of spin transfer torque in double barrier magnetic tunnel junctions

Baraduc, C., P.-Y. Clément, P. Veloso Coelho, C. Ducruet, L. Vila, M. Chshiev and B. Dieny

Poster: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Extraordinary exchange-bias effects in coupled SmCo₅ (perpendicular)/CoFeB (in-plane) bilayers

Bollero, A., F. Pedrosa, J.L.F. Cuñado, J. Camarero, M. Seifert, V. Neu, V. Baltz, D. Serantes, O. Chubykalo-Fesenko, R. Perez del Real, M. Vázquez, L. Schultz, B. Dieny and R. Miranda

Oral: Intermag Conference, Beijing (China), May 11-15 2015

Extraordinary “EB-like” phenomenon in orthogonally coupled ferromagnets: SmCo₅ (perpendicular) /CoFeB and /NiFe (in-plane) bilayers

Bollero, A., F. Pedrosa, J.L.F. Cuñado, J. Camarero, M. Seifert, V. Neu, V. Baltz, D. Serantes, O. Chubykalo-Fesenko and R. Perez del Real

Oral: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Observation of magnetic skyrmions at room temperature in ultrathin Pt/Co/MgO perpendicularly-magnetized multilayers by XMCD-PEEM

Boulle, O., J. Vogel, S. Pizzini, L.D. Buda-Prejbeanu, O.T. Mentès, A. Locatelli, A. Sala and G. Gaudin

Oral: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Observation of magnetic skyrmions at room temperature in ultrathin Pt/Co/MgO perpendicularly-magnetized multilayers by XMCD-PEEM

Boulle, O., J. Vogel, S. Pizzini, L.D. Buda-Prejbeanu, O.T. Mentès, A. Locatelli, A. Sala and G. Gaudin

Oral: European Materials Research Society Spring Meeting, Lille (France), May 11-15 2015

Controlled pulse shape cooling in planar TAS STT-MRAM for improved writeability

Chavent, A., C. Ducruet, C. Portemont, C. Creuzet, L. Vila, J. Alvarez-Hérault, R.C. Sousa, I.L. Prejbeanu and B. Dieny

Oral: Intermag Conference, Beijing (China), May 11-15 2015

Spin and charge transport across cobalt/graphene interfaces

Chshiev, M., A. Kalitsov and O. Mryasov

Oral: [American Physical Society March Meeting](#), San Antonio (USA), Mar. 2-6 2015

Spin-orbit torques-driven ferromagnetic resonance in ultrathin YIG disks

Collet, M., O. d'Allivy Kelly, R. Bernard, E. Jacquet, P. Bortolotti, V. Cros, A. Anane, X. de Milly, G. de Loubens, V.V. Naletov, O. Klein, J.L. Prieto and M. Muñoz

Oral: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Ultra-fast three-terminal spin-orbit torque MRAM with perpendicular magnetization

Cubukcu, M., O. Boulle, C. Hamelin, N. Lamard, I.M. Miron, J. Langer, B. Ocker, M.-C. Cyrille, K. Garello, P. Gambardella and G. Gaudin

Oral: Intermag Conference, Beijing (China), May 11-15 2015

Ultra-fast three-terminal perpendicular spin-orbit torque MRAM

Cubukcu, M., O. Boulle, N. Mikuszeit, C. Hamelin, N. Lamard, L.D. Buda-Prejbeanu, K. Garello, I.M. Miron, J. Langer, B.Ocker, P. Gambardella and G. Gaudin

Poster: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Development of dual magnetic tunnel junctions with perpendicular anisotropy and double polarizing layers

Cuchet, L., B. Rodmacq, R.C. Sousa, S. Auffret, I.L. Prejbeanu and B. Dieny

Oral: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Double magnetic tunnel junctions with perpendicular anisotropy

Cuchet, L., R.C. Sousa, S. Auffret, I.L. Prejbeanu and B. Dieny

Oral: Intermag Conference, Beijing (China), May 11-15 2015

Improved composite antiferromagnets (^cAF) and ferromagnet/^cAF interfaces for spintronics applications

Frangou, L., K. Akmalinov, C. Ducruet, I. Joumard, B. Dieny and V. Baltz

Poster: International Summer School "Nicolás Cabrera", Madrid (Spain), Jul. 11-16 2015

Independently tuning the interfacial and bulk contributions to exchange bias for ferromagnetic/(antiferromagnetic) thin films with (IrMn/Pt/FeMn)-based composite antiferromagnets

Frangou, L., K. Akmalinov, C. Ducruet, I. Joumard, B. Dieny and V. Baltz

Poster: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

First-principles study of electric field and structural strain impact on perpendicular magnetic anisotropy of Fe/MgO interfaces

Ibrahim, F., H.X. Yang, B. Dieny and M. Chshiev

Oral: [American Physical Society March Meeting](#), San Antonio (USA), Mar. 2-6 2015

Magnetic tunnel junctions spin torque oscillators

Jaimes Merazzo, K., R. Hida, J. Hem, A. Purbawati, M. Tortarolo, C. Dieudonné, R. Ferreira, L. Vila, U. Ebels, M.-T. Delaye and M.-C. Cyrille

Poster: Recent Trends in Nanomagnetism, Spintronics and their Applications, Ordizia (Spain), Jun. 30-Jul. 3 2015

Spin torque oscillators based on magnetic tunnel junctions

Jaimes Merazzo, K., R. Hida, J. Hem, A. Purbawati, M. Tortarolo, C. Dieudonné, R. Ferreira, L. Vila, U. Ebels, M.-T. Delaye and M.-C. Cyrille

Poster: European Materials Research Society Spring Meeting, Lille (France), May 11-15 2015

Gate-voltage controlled spin pumping effects: Spin injection from YIG and Co into metal and graphene-based 2D materials

Kalitsov, A., M. Chshiev and O. Mryasov

Oral: [American Physical Society March Meeting](#), San Antonio (USA), Mar. 2-6 2015

Extended auto-oscillator equation and nonlinear parameters of a synthetic ferrimagnet spin torque oscillator

Lacoste, B., M. Romera, U. Ebels and L.D. Buda-Prejbeanu

Oral: Intermag Conference, Beijing (China), May 11-15 2015

Analytical model of a synthetic ferrimagnet spin torque oscillator: Comparison of the self-polarized with the external polarizer case

Lacoste, B., M. Romera, U. Ebels and L.D. Buda-Prejbeanu

Poster: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Low-power hybrid STT/CMOS systems-on-chip embedding non-volatile magnetic memory blocks

Layer, C., B. Dieny, L. Becker, K. Jabeur, S. Gros, P. Paoli, V. Javerliac and F. Bernard-Granger

Oral: IEEE International New Circuits and Systems Conference, Grenoble (France), Jun. 7-10 2015

Hybrid STT/CMOS design of an interrupt-based instant on/off mechanism for low-power SoC

Layer, C., B. Dieny, L. Becker, K. Jabeur, S. Gros, P. Paoli, V. Javerliac and F. Bernard-Granger

Oral: IEEE International Symposium on VLSI, Montpellier (France), Jul. 8-10 2015

Thermally-activated diffusion in Cu/Co/IrMn/Pt multilayers investigated by atom probe tomography

Le Breton, J.-M., F. Letellier, R. Lardé, L. Lechevallier, V. Baltz, K. Akmalidinov, S. Auffret and B. Dieny

Oral: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Bimodal distribution of blocking temperature for exchange-biased ferromagnetic/antiferromagnetic bilayers: A granular Monte Carlo study with less stable magnetic regions spread over the interface

Ledue, D., G. Lhoutellier, R. Patte, F. Barbe, B. Dieny and V. Baltz

Oral: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Narrow magnetic vortex dynamics in easy-plane anisotropy films induced by spin transfer torque and spin-orbit torque

Liu, H., L.D. Buda-Prejbeanu and B. Dieny

Poster: Intermag Conference, Beijing (China), May 11-15 2015

Asynchronous design for harsh environments

Lopes, J., G. di Pendina, E. Beigné and L. Torres

Oral: 21st IEEE International Symposium on Asynchronous Circuits and Systems, Mountain View (USA), May 4-6 2015

Tunability versus deviation sensitivity in a non-linear vortex oscillator

Martin, S., C. Thirion, C. Hoarau, C. Baraduc and B. Dieny

Oral: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Theoretical investigation of spin transfer torque in antiferromagnetic and ferrimagnetic tunnel junctions

Merodio Cámara, P., A. Kalitsov, H. Béa, V. Baltz and M. Chshiev

Oral: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Magnetization reversal by spin-orbit torque in a perpendicularly-magnetized nanomagnet: A micromagnetic study

Mikuszeit, N., O. Boulle, L.D. Buda-Prejbeanu, I.M. Miron and G. Gaudin

Oral: Intermag Conference, Beijing (China), May 11-15 2015

Magnetic superparamagnetic-like microparticles for cancer cells destruction

Morcrette, M., H. Joisten, G. Ortiz Hernandez, S. Lequien, P. Sabon, M. Carrière, Y. Hou-BROUTIN, A. Bsiesy and B. Dieny

Oral: Intermag Conference, Beijing (China), May 11-15 2015

Anisotropic superparamagnetic-like microparticles for cancer cell destruction

Morcrette, M., H. Joisten, G. Ortiz Hernandez, S. Lequien, P. Sabon, M. Carrière, Y. Hou-BROUTIN, A. Bsiesy and B. Dieny

Oral: 5th Zing Bionanomaterials Conference, Carvoeiro (Portugal), Apr. 25-28 2015

Synthesis of mono disperse magnetic nanoparticles prepared on block copolymer templates for medical imaging techniques

Morcrette, M., S. Tallegas, H. Joisten, G. Ortiz Hernandez, R. Tiron, T. Baron, S. Lequien, Y. Hou-BROUTIN, A. Bsiesy and B. Dieny

Oral: Intermag Conference, Beijing (China), May 11-15 2015

Magnetic micro-mechanical systems for magnetic field mapping by optical effect

Ortiz, G., M. Morcrette, T. Dietsch, P. Sabon, I. Joumard, H. Joisten and B. Dieny

Poster: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Micromagnetic mechanical systems for biomedical applications

Ortiz, G., M. Morcrette, P. Sabon, C. Iss, T. Dietsch, S. Leulmi, H. Joisten and B. Dieny

Oral: Intermag Conference, Beijing (China), May 11-15 2015

Spin transfer torque in magnetic tunnel junctions with magnetic insulators

Pauyac, C.O., A. Kalitsov, A. Manchon and M. Chshiev

Oral: Intermag Conference, Beijing (China), May 11-15 2015

Chiral effects in domain wall velocity and nucleation in Pt/Co/MO_x films: The influence of the Dzyaloshinskii-Moriya interaction

Pizzini, S. J. Vogel, S. Rohart, L.D. Buda-Prejbeanu, I.M. Miron, G. Gaudin, O Boulle, E. Jué and A. Thiaville

Oral: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Direct determination of domain wall type by nano-scale stray field mapping in ultra-thin ferromagnets

Rohart, S., T. Hingant, J.-P. Tetienne, L.J. Martinez Rodriguez, A. Thiaville, L. Herrera Diez, K. Garcia, J.-P. Adam, J.V. Kim, J.-F. Roch, I.M. Miron, G. Gaudin, L. Vila, B. Ocker, D. Ravelosona and V. Jacques

Poster: European Materials Research Society Spring Meeting, Lille (France), May 11-15 2015

Non-linear mode interaction between spin torque-driven and damped modes in spin torque nano-oscillators

Romera, M., E. Montebancho, F. Garcia-Sanchez, B. Delaët, L.D. Buda-Prejbeanu and U. Ebels

Poster: Recent Trends in Nanomagnetism, Spintronics and their Applications, Ordizia (Spain), Jun 30-Jul 3 2015

Non-linear mode interaction between spin torque-driven and damped modes in spin torque nano-oscillators

Romera, M., E. Montebancho, F. Garcia Sanchez, B. Delaët, L.D. Buda-Prejbeanu and U. Ebels

Poster: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Chiral damping of field-driven magnetic domain walls

Safeer, C.K., E. Jué, M. Drouard, A. Lopez, P. Balint, L.D. Buda-Prejbeanu, S. Auffret, A. Manchon, A. Schuhl, O. Boulle, I.M. Miron and G. Gaudin

Oral: Intermag Conference, Beijing (China), May 11-15 2015

Magnetic origami

Safeer, C.K., E. Jué, A. Lopez, L.D. Buda Prejbeanu, S. Auffret, J. Vogel, S. Pizzini, O. Boulle, I.M. Miron and G. Gaudin

Poster: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Geometry effects on magnetization dynamics in circular cross-section wires

Sturma, M., J.-C. Toussaint and D. Gusakova

Oral: Intermag Conference, Beijing (China), May 11-15 2015

Geometry effects on magnetization dynamics in circular cross-section wires

Sturma, M., J.-C. Toussaint and D. Gusakova

Poster: European Materials Research Society Spring Meeting, Lille (France), May 11-15 2015

Relative role of in-plane and out-of-plane spin transfer torques on the magnetization switching of fully perpendicular magnetic tunnel junctions

Timopheev, A.A., L.D. Buda-Prejbeanu, M. Chshiev, R.C. Sousa and B. Dieny

Poster: Magnonics Conference, Seeon (Germany), Aug. 2-6 2015

SOT measurements in heavy metal/ferromagnetic heterostructures with in-plane magnetization

Trifu, A., I.M. Miron, O. Boulle, S. Auffret, C.O. Avci, K. Garello, P. Gambardella and G. Gaudin

Poster: IEEE Summer School on Magnetism, Minneapolis (USA), Jun. 14-19 2015

X-ray induced anisotropy change in Pt/Co/MgO trilayers

Vogel, J., S. Pizzini, T. Onur Mentès, A. Sala, A. Locatelli, L.D. Buda-Prejbeanu, G. Gaudin and O. Boulle

Oral: International Conference on Magnetism, Barcelona (Spain), Jul. 5-10 2015

Co-graphene heterostructures with giant perpendicular magnetocrystalline anisotropy

Yang, H.X. and M. Chshiev

Oral: Intermag Conference, Beijing (China), May 11-15 2015

Switching of magnetocrystalline anisotropy of a single layer cobalt film by graphene

Yang, H.X. and M. Chshiev

Oral: ImagineNano Conference, Bilbao (Spain), Mar. 10-13 2015

Giant perpendicular magnetic anisotropy of graphene-Co heterostructures

Yang, H.X., A. Hallal and M. Chshiev

Oral: [American Physical Society March Meeting](#), San Antonio (USA), Mar. 2-6 2015

Anatomy of Dzyaloshinskii-Moriya interaction at Co/Pt interfaces

Yang, H.X., S. Rohart, A. Thiaville, A. Fert and M. Chshiev

Poster: [American Physical Society March Meeting](#), San Antonio (USA), Mar. 2-6 2015

Non-volatility for ultra-low power asynchronous circuits in hybrid CMOS/magnetic technology

Zianbetov, E., G. di Pendina and E. Beigné

Oral: 21st IEEE International Symposium on Asynchronous Circuits and Systems, Mountain View (USA), May 4-6 2015

2014

INVITED PRESENTATIONS

Breakdown mechanisms in MgO-based magnetic tunnel junctions and correlation with low frequency noise

Amara-Dababi, S., R.C. Sousa, H. Béa, C. Baraduc, K. Mackay and B. Dieny
International Reliability Physics Symposium, Waikoloa (USA), Jun. 3-5 2014

Electric-field control of domain wall nucleation and pinning in a metallic ferromagnet

Bernand-Mantel, A., L. Herrera-Diez, L. Ranno, S. Pizzini, J. Vogel, D. Givord, S. Auffret, O. Boulle, I.M. Miron and G. Gaudin
10th European Conference on Magnetic Sensors and Actuators, Vienna (Austria), Jul. 6-9 2014

Manipulation of magnetization by spin-orbit torques in nanomagnets

Boulle, O.
One day Conference on Nanomagnetism, Nancy (France), Nov. 24 2014

STT-MRAM with improved read and write margins thanks to read/write mode select layer

Clément, P.-Y., C. Ducruet, I. Joumard, C. Baraduc, M. Chshiev and B. Dieny
Materials Research Society Fall Meeting, Boston (USA), Nov. 30-Dec. 5 2014

Hybrid CMOS/Magnetic process design kit and SOT-based non-volatile standard cell architectures

Di Pendina, G., K. Jabeur and G. Prenat
19th Asia and South Pacific Design Automation Conference, Suntec (Singapore), Jan. 20-23 2014

MRAM: MTJ, Field-driven MRAM

Dieny, B.
Introductory Course on Magnetic Random Access Memory, Grenoble (France), Jul. 2-4 2014

MRAM: STTRAM

Dieny, B.
Introductory Course on Magnetic Random Access Memory, Grenoble (France), Jul. 2-4 2014

MRAM: Thermally Assisted MRAM and other advanced MRAM concepts

Dieny, B.
Introductory Course on Magnetic Random Access Memory, Grenoble (France), Jul. 2-4 2014

Emerging materials and devices for nonvolatile memories

Dieny, B.
Materials Research Society Fall Meeting, Boston (USA), Nov. 30-Dec. 5 2014

Magnetic, transport and dynamic properties of spintronics nanomaterials

Ebels, U.

Erasmus Intensive Programme PLASMAG, Berlin (Germany), Jul. 20-Aug. 2 2014

Ultrafast magnetization switching by spin-orbit torques

Garello, K., C.O. Avci, I.M. Miron, O. Boulle, S. Auffret, A. Ghosh, M. Baumgartner, G. Gaudin and P. Gambardella

12th RIEC International Workshop on Spintronics, Tohoku (Japan), Jun. 25-27 2014

Spin-orbit torques in ferromagnetic heterostructures: Fundamentals and applications

Garello, K., C.O. Avci, I.M. Miron, O. Boulle, F. Freimuth, Y. Mokrousov, S. Blugel, G. Gaudin and P. Gambardella

International Workshop on Current-Driven Magnetisation Dynamics, Leeds (United Kingdom), Jan. 7-9 2014

Spin-orbit torques in ferromagnetic heterostructures: Fundamentals and applications

Garello, K., C.O. Avci, I.M. Miron, O. Boulle, F. Freimuth, Y. Mokrousov, S. Blügel, G. Gaudin and P. Gambardella

Spie Conference on Nanosciences and Engineering, San Diego (USA), Aug. 17-21 2014

Esperado – Effets du couple de transfert de spin et des champs Rashba et d’Oersted sur la dynamique de parois

Gaudin, G., E. Jué, C.K. Safeer, A. Lopez, L.D. Buda-Prejbeanu, O. Boulle, S. Auffret, A. Schuhl, I.M. Miron, S. Pizzini, J. Vogel, N. Rougemaille, M. Bonfim, S. Rohart, A. Thiaville, S. Lequeux, J. Grollier, J. Sampaio, P. Bortolotti, P.J. Metaxas, A. Anane, A. Fert and V. Cros

Journées Nationales Nanosciences & Nanotechnologies, Lyon (France), Nov. 12-14 2014

Nanoparticles for biotechnological and biomedical applications prepared by a top-down approach

Joisten, H., S. Leulmi, C. Iss, M. Morcrette, T. Dietsch, G. Ortiz Hernandez, Y. Hou-BROUTIN, L. Livache, R. Calemczuk, M. Carrière, P. Sabon, S. Auffret and B. Dieny

International Conference on Magnetic Materials and Applications, Pondicherry (India), Sep. 15-17 2014

Spin-orbit torques in ferromagnetic thin films

Miron, I.M., K. Garello, E. Jué, G. Gaudin, P.-J. Zermatten, M.V. Costache, S. Auffret, S. Bandiera, B. Rodmacq, J. Vogel, S. Pizzini, A. Schuhl and P. Gambardella

14th REIMEI Workshop on Spin Currents and Related Phenomena, Grenoble (France), Feb. 10-13 2014

MRAM: From memories to the Internet of Things

Nozières, J.-P., V. Javerliac, F. Bernard-Granger, C. Layer, R.C. Sousa and B. Dieny
International Conference on Magnetic Materials and Applications, Pondicherry (India), Sep. 15-17 2014

Magnetic Random Access Memories for the Internet of Things

Nozières, J.-P., V. Javerliac, F. Bernard-Granger, C. Layer, R.C. Sousa and B. Dieny
14th Non-Volatile Memory Technology Symposium, Jeju (Korea), Oct. 27-29 2014

MRAM: From memories to the Internet of Things

Nozières, J.-P., V. Javerliac, F. Bernard-Granger, C. Layer, R.C. Sousa and B. Dieny
International Global Foundries Workshop on STT-MRAM, Singapore, Nov. 6 2014

DMI-induced chiral nucleation in Pt/CoAlO_x microstructures

Pizzini, S., J. Vogel, S. Rohart, L.D. Buda-Prejbeanu, I.M. Miron, G. Gaudin, O. Boulle, E. Jué and A. Thiaville
59th International Conference on Magnetism and Magnetic Materials, Honolulu (USA), Nov. 3-7 2014

Chiral magnetic effects in Pt/Co/AlO_x ultrathin films

Pizzini, S., J. Vogel, A. Thiaville, S. Rohart, J. Miltat, E. Jué, I.M. Miron, O. Boulle, L.D. Buda-Prejbeanu, C.K. Safeer and G. Gaudin
International Workshop on Current-Driven Magnetisation Dynamics, Leeds (United Kingdom), Jan. 7-9 2014

MRAM concepts for sub-nanosecond switching and ultimate scalability

Prejbeanu, I.L., S. Bandiera, R.C. Sousa and B. Dieny
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MRAM process

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MRAM concepts for sub-nanosecond switching and ultimate scalability

Prejbeanu, I.L.
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Design tools

Prenat, G.
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Magnetic memories: From DRAM replacement to ultra low power logic chips

Prenat, G., G. di Pendina, C. Layer, O. Gonçalves, K. Jabeur, B. Dieny, R.C. Sousa, I.L. Prejbeanu and J.-P. Nozières
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Spin torque driven excitations of coupled magnetic layers

Romera, M., E. Montebancho, F. Garcia-Sanchez, A.S. Jenkins, G. Geranton, B. Lacoste, D. Gusakova, B. Dieny, L.D. Buda-Prejbeanu and U. Ebels
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Insights on perpendicular anisotropy tunnel junctions for MRAM cells and sub-20nm scaling concepts

Sousa, R.C.

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Perpendicular magnetic tunnel junction material optimization for MRAM cells and spin transfer torque field and bias dependence

Sousa, R.C., L. Cuchet, B. Rodmacq, S. Auffret and B. Dieny

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Multibit self-referenced thermally-assisted MRAM

Stainer, Q., L. Lombard, K. Mackay, C. Ducruet, S. Bandiera, R.C. Sousa, G. Vinai, J. Moritz, I.L. Prejbeanu and B. Dieny

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First-principles insights on exchange splitting in graphene induced by magnetic insulator proximity and large vacancy effects

Yang, H.X., A. Hallal, X. Waintal, S. Roche and M. Chshiev

Intermag Conference, Dresden (Germany), May 4-8 2014

ORAL AND POSTER PRESENTATIONS

Composite antiferromagnets for TA-MRAM applications

Akmaldinov, K., C. Ducruet, C. Portemont, J. Alvarez-Hérault, J. Vidal, I. Joumard, I.L. Prejbeanu, B. Dieny and V. Baltz

Oral: Moscow International Symposium on Magnetism, Moscow (Russia), Jun. 29-Jul. 3 2014

Composite antiferromagnets for TA-MRAM applications

Akmaldinov, K., C. Ducruet, C. Portemont, J. Alvarez-Hérault, J. Vidal, I. Joumard, I.L. Prejbeanu, B. Dieny and V. Baltz

Oral: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Spin-orbit torques and thermal effects in heavy-metal/ferromagnet bilayers with in-plane magnetization

Avci, C.O., K. Garello, A. Ghosh, S. Alvarado, M. Gabureac, I.M. Miron, G. Gaudin, A. Kaidatzis, D. Niarchos and P. Gambardella

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Ultra-sensitive magnetic field sensor

Baraduc, C., M. Kavaldzhiev, P. Sabon, D. Leroy, N. Dempsey, C. Cavoit, I.L. Prejbeanu and B. Dieny

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Ultra-fast magnetization switching by spin-orbit torques

Baumgartner, M., K. Garello, C.O. Avci, I.M. Miron, O. Boulle, A. Ghosh, S. Auffret, G. Gaudin and P. Gambardella

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Study and use of functional binary oxides in devices for spintronics

Béa, H., S. Auffret, P. Balint, V. Baltz, O. Boulle, C.K. Safeer, M. Cubukcu, B. Dieny, M. Drouard, C. Hamelin, E. Jué, A. Lopez, K. Marty, I.M. Miron, B. Rodmacq, T. Srivastava, A. Trifu and G. Gaudin

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SmCo₅ (perpendicular)/CoFeB (in-plane) bilayers: Unprecedented isothermal tuning of the magnitude and sign of the exchange bias field

Bollero, A., F. Pedrosa, J.L.F. Cuñado, J. Camarero, M. Seifert, V. Neu, V. Baltz, D. Serantes, O. Chubykalo-Fesenko, R. Pérez del Real, M. Vasquez, L. Schultz, B. Dieny and R. Miranda

Oral: Intermag Conference, Dresden (Germany), May 4-8 2014

Domain wall tilting in the presence of the Dzyaloshinskii-Moriya interaction in out-of-plane magnetized magnetic nanotracks

Buda-Prejbeanu, L.D., O. Boulle, E. Jué, I.M. Miron, G. Gaudin, A. Thiaville, S. Rohart, S. Pizzini and J. Vogel

Poster: 14th REIMEI Workshop on Spin Currents and Related Phenomena, Grenoble (France), Feb. 10-13 2014

Effects of the heating current polarity on the writing of Thermally-Assisted switching-MRAM

Chavent, A., J. Alvarez-Hérault, C. Portemont, C. Creuzet, J. Pereira, J. Vidal, K. Mackay, R.C. Sousa, I.L. Prejbeanu and B. Dieny

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Effet de la polarité du courant du chauffage sur l'écriture des MRAM

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Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Double barrier magnetic tunnel junctions with write/read mode select layer

Clément, P.-Y., C. Ducruet, I. Joumard, L. Vila, C. Baraduc, M. Chshiev and B. Dieny

Oral: Intermag Conference, Dresden (Germany), May 4-8 2014

Modulation of spin transfer torque amplitude in double barrier magnetic tunnel junctions

Clément, P.-Y., C. Ducruet, I. Joumard, L. Vila, C. Baraduc, M. Chshiev and B. Dieny

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Modulation of STT amplitude in double barrier magnetic tunnel junctions

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Modulation du couple de transfert de spin dans les jonctions tunnel magnétiques à double barrière

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Double barrier magnetic tunnel junctions with write/read mode select layer

Clément, P.-Y., C. Ducruet, L. Vila, C. Baraduc, M. Chshiev and B. Dieny
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Spin-orbit torque magnetization switching of a three-terminal perpendicular magnetic tunnel junction

Cubuckcu, M., O. Boulle, M. Drouard, K. Garello, I.M. Miron, J. Langer, B. Ocker, P. Gambardella and G. Gaudin
Poster: 14th REIMEI Workshop on Spin Currents and Related Phenomena, Grenoble (France), Feb. 10-13 2014

Retournement de l'aimantation induite par couple de spin-orbite dans des jonctions tunnel magnétiques à trois terminaux

Cubuckcu, M., O. Boulle, M. Drouard, K. Garello, I.M. Miron, J. Langer, B. Ocker, P. Gambardella and G. Gaudin
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Spin-orbit torque magnetization switching of a three-terminal perpendicular magnetic tunnel junction

Cubuckcu, M., O. Boulle, C. Hamelin, C.O. Avci, M. Drouard, K. Garello, I.M. Miron, J. Langer, B. Ocker, P. Gambardella and G. Gaudin
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Current-induced magnetization switching of a three-terminal perpendicular magnetic tunnel junction by spin-orbit torque

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Three-terminal spin-orbit torque MRAM with perpendicular magnetization

Cubuckcu, M., C. Hamelin, O. Boulle, N. Lamard, M. Drouard, K. Garello, I.M. Miron, J. Langer, B. Ocker, P. Gambardella and G. Gaudin
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Magnetic thickness dependence of the transport properties of perpendicular magnetic tunnel junctions

Cuchet, L., B. Rodmacq, S. Auffret, R.C. Sousa and B. Dieny
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Optimisation des propriétés de transport et d'anisotropie de jonctions tunnel magnétiques à anisotropie perpendiculaire

Cuchet, L., B. Rodmacq, S. Auffret, R.C. Sousa and B. Dieny
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Design optimization and analysis of hybrid STT-MTJ/CMOS logic circuits under ultra-deep submicron technology process

Deng, E., W. Kang, J.-O. Klein, D. Ravelosona, B. Dieny, G. Prenat and W.S. Zhao
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Ultra-fast spin-orbit torque (SOT) based memory for processor cache memory replacement

Di Pendina, G., K. Jabeur, G. Prenat, M. Tahoori, R. Bishnoi, F. Oboril and M. Ebrahimi
Oral: 59th International Conference on Magnetism and Magnetic Materials, Honolulu (USA), Nov. 3-7 2014

InMRAM Introductory course on Magnetic Random Access Memories for microelectronics students and engineers

Di Pendina, G., G. Prenat and B. Dieny
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MRAM-based non-volatile asynchronous Muller cell for ultra-low power autonomous applications

Di Pendina, G., E. Zianbetov and E. Beigne
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Magnetic microswimmers for biotechnological applications

Dietsch, T., G. Ortiz Hernandez, P. Sabon, H. Joisten and B. Dieny
Poster: 7th Workshop on Nano- and Micro-environments for Cell Biology, Grenoble (France), Jan. 30 2014

Synchronisation d'un STO sur source de courant micro-ondes à 2ω : Puissance et phase en régime synchronisé

Dieudonné, C., L.D. Buda-Prejbeanu, M. Zarudniev, M. Tortarolo, J. Hem, M.-C. Cyrille and U. Ebels
Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Coupling sensitivity of injection-locked spin torque oscillators at simple and double driving frequencies

Dieudonné, C., L.D. Buda-Prejbeanu, M. Zarudniev, M. Tortarolo, O. Klein, M.-C. Cyrille and U. Ebels

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Analysis of injection locking of a standard spin torque oscillator at 2ω

Dieudonné, C., M. Zarudniev, M. Tortarolo, E. Montebianco, M. Romera, M.-C. Cyrille, B. Dieny, L.D. Buda-Prejbeanu and U. Ebels

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Current-induced spin-orbit torques in cobalt-platinum-based heterostructures

Drouard, M., P. Balint, I.M. Miron, O. Boulle, K. Garello, P. Gambardella and G. Gaudin

Poster: Intermag Conference, Dresden (Germany), May 4-8 2014

Couples spin-orbite induits par le courant dans des hétérostructures à base de cobalt-platine

Drouard, M., P. Balint, I.M. Miron, O. Boulle, K. Garello, P. Gambardella and G. Gaudin

Oral: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Improved composite antiferromagnets (c AF) and ferromagnet/ c AF interfaces for spintronics applications

Frangou, L., K. Akmalidnov, C. Ducruet, S. Bandiera, I. Joumard, B. Dieny and V. Baltz

Poster: FAME MASTER Workshop, Bordeaux (France), Jul. 20-22 2014

Couples de spin-orbite et hétérostructures ferromagnétiques

Garello, K., C.O. Avci, A. Ghosh, M. Gabureac, I.M. Miron, O. Boulle, S. Auffret, G. Gaudin and P. Gambardella

Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Ultrafast magnetization switching by spin-orbit torques

Garello, K., C.O. Avci, I.M. Miron, O. Boulle, S. Auffret, P. Gambardella and G. Gaudin

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Manipulation of current-induced spin-orbit fields by thermal annealing

Ghosh, A., K. Garello, C.O. Avci, M.S. Gabureac, S. Auffret and P. Gambardella

Poster: Magnetic Single Nano-Object Workshop & School, Nancy (France), Sep. 8-11 2014

Impurity-induced enhancement of perpendicular magnetic anisotropy and spin polarization in Fe/MgO magnetic tunnel junctions

Hallal, A., B. Dieny and M. Chshiev

Poster: [American Physical Society March Meeting](#), Denver (USA), Mar. 3-7 2014

Effet d'un champ électrique sur le courant d'écriture pour des SOT-MRAM à trois terminaux

Hamelin, C., K. Marty, O. Boulle, I.M. Miron, N. Lamard, J. Langer, B. Ocker and G. Gaudin

Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Direct measurement of domain wall type by stray field mapping

Hingant, T., J.-P. Tetienne, L.J. Martinez, S. Rohart, A. Thiaville, L. Herrera-Diez, J.-V. Kim, K. Garcia, J.-P. Adam, I.M. Miron, G. Gaudin, L. Vila, J.-F. Roch, D. Ravelosona and V. Jacques

Oral: Magnetic Single Nano-Object Workshop & School, Nancy (France), Sep. 8-11 2014

Measuring the saturation magnetization of ultrathin films with sub-micron resolution using stray field mapping

Hingant, T., J.-P. Tetienne, L.J. Martinez Rodriguez, J.-F. Roch, K. Garcia, D. Ravelosona, G. Gaudin and V. Jacques

Oral: 59th International Conference on Magnetism and Magnetic Materials, Honolulu (USA), Nov. 3-7 2014

Direct determination of domain wall type by nano-scale stray field mapping in ultra-thin ferromagnets

Hingant, T., J.-P. Tetienne, L.J. Martinez Rodriguez, S. Rohart, A. Thiaville, L. Herrera-Diez, K. Garcia, J.-P. Adam, J.-V. Kim, J.-F. Roch, I.M. Miron, G. Gaudin, L. Vila, B. Ocker, D. Ravelosona and V. Jacques

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Mesure directe de parois de Dzyaloshinskii dans des films ultraminces par cartographie du champ magnétique

Hingant, T., J.-P. Tetienne, S. Rohart, L. Herrera-Diez, J.-V. Kim, K. Garcia, J.-P. Adam, I.M. Miron, G. Gaudin, L.J. Martínez, J.-F. Roch, D. Ravelosona, A. Thiaville and V. Jacques

Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Micro/nano-pinces magnétiques fonctionnalisées et dispersées en solution pour applications biotechnologiques et médicales

Iss, C., H. Joisten, T. Dietsch, S. Leulmi, M. Morcrette, P. Sabon, Y. Hou-Broutin, T. Livache, J. Faure-Vincent, R. Calemczuk, C. Benoît, D. Peyrade, S. Auffret, E. Gautier and B. Dieny

Oral: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

High performance spin-orbit torque (SOT) based on non-volatile standard cell for hybrid CMOS/magnetic ICs

Jabeur, K., G. di Pendina and G. Prenat

Oral: International Conference on Advanced Technology and Sciences, Antalya (Greece), Aug. 12-15 2014

Spin-orbit torque (SOT) nanodevices for ultra energy-efficient and non-volatile applications

Jabeur, K., G. di Pendina and G. Prenat

Oral: International Conference and Exhibition on Nanoscience and Nanotechnology, Hammamet (Tunisia), Apr. 24-27 2014

Current-driven magnetization dynamics of a self-polarized synthetic ferrimagnet

Jenkins, A.S., B. Lacoste, G. Geranton, D. Gusakova, M. Romera, B. Dieny, U. Ebels and L.D. Buda-Prejbeanu

Poster: Intermag Conference, Dresden (Germany), May 4-8 2014

Current-driven magnetization dynamics of a self-polarised synthetic ferrimagnet

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Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Interface studies of in-plane magnetized exchange-bias systems using X-ray holography and Herald

Jiménez E., N. Mikuszeit, F. Yakhou-Harris, J. Camarero, J. Vogel, C. Tieg, P. Perna, A. Bollero, B. Rodmacq, E. Gautier, S. Auffret, G. Gaudin and B. Dieny

Oral: Moscow International Symposium on Magnetism, Moscow (Russia), Jun. 29-Jul. 3 2014

Nanoparticles for biotechnological and biomedical applications prepared by a top-down approach

Joisten, H., S. Leulmi, C. Iss, M. Morcrette, T. Dietsch, G. Ortiz Hernandez, Y. Hou-Brouin, L. Livache, R. Calemczuk, M. Carrière, P. Sabon, S. Auffret and B. Dieny

Oral: Moscow International Symposium on Magnetism, Moscow (Russia), Jun. 29-Jul. 3 2014

Perpendicular magnetic anisotropy of W-based spin-orbit torque CoFeB/MgO MRAM stacks

Kaidatzis, A., D. Niarchos, O. Boule, G. Gaudin, C.O. Avci, K. Garello and P. Gambardella

Poster: 30th Pan-Hellenic Conference on Solid-State Physics and Materials Science, Heraklion (Greece), Sep. 21-24 2014

Theory of intrinsic spin torque due to interface spin-orbit coupling

Kalitsov, A., M. Chshiev, W.H. Butler and O. Mryasov

Oral: [American Physical Society March Meeting](#), Denver (USA), Mar. 3-7 2014

Theory of the intrinsic spin-orbit torque at the interfaces between 3d and 5d/4d films

Kalitsov, A., M. Chshiev, W.H. Butler and O. Mryasov

Poster: Intermag Conference, Dresden (Germany), May 4-8 2014

Interplay between spin transfer and spin-orbit torques on domain walls at the 5d/3d-alloy interfaces

Kalitsov, A., S. Okatov, P. Zarzhitsky, M. Chshiev, J.P. Velev, W.H. Butler and O. Mryasov

Poster: [American Physical Society March Meeting](#), Denver (USA), Mar. 3-7 2014

Dynamique de l'aimantation induite par transfert de spin d'une couche libre ferrimagnétique synthétique avec couche de référence fixe

Lacoste, B., M. Romera, L.D. Buda-Prejbeanu, U. Ebels and B. Dieny

Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Déclenchement de l'apoptose de cellules cancéreuses ciblées par vibrations mécaniques de microparticules antiferromagnétiques synthétiques et vortex

Leulmi, S., H. Joisten, T. Dietsch, C. Iss, M. Morcrette, P. Sabon, M. Carrière, Y. Hou-Broutin and B. Dieny

Oral: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Triggering the apoptosis of targeted cancer cells by the mechanical vibrations of synthetic antiferromagnetic or vortex microparticles

Leulmi, S., H. Joisten, T. Dietsch, C. Iss, M. Morcrette, P. Sabon, M. Carrière, Y. Hou-Broutin, G. Ortiz, X. Chauchet, B. Toussaint and B. Dieny

Oral: Intermag Conference, Dresden (Germany), May 4-8 2014

Cancer cells apoptosis induced by magneto-mechanical vibrations of functionalized magnetic vortex particles

Leulmi, S., H. Joisten, Y. Hou-Broutin, M. Carrière, X. Chauchet and B. Dieny

Poster: 7th Workshop on Nano- and Micro-Environments for Cell Biology, Grenoble (France), Jan. 30 2014

Distributions bimodales de températures de blocage de bicouches ferromagnétique/antiferromagnétique: Simulations numériques Monte-Carlo de l'influence de la microstructure et des interfaces

Lhoutellier, G., D. Ledue, R. Patte, V. Baltz and F. Barbe

Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Gilbert damping up to 300 GHz in Ni₈₁Fe₁₉

Li, Y., A.-L. Barra, S. Auffret, U. Ebels and W.E. Bailey

Poster: [American Physical Society March Meeting](#), Denver (USA), Mar. 3-7 2014

Spin current transmission through Pt, Pd and Ru spin sinks

Li, Y., A. Gosh, S. Auffret, U. Ebels and W.E. Bailey

Oral: 59th International Conference on Magnetism and Magnetic Materials, Honolulu (USA), Nov. 3-7 2014

Mesure de l'efficacité des couples de spin dans des tri-couches Pt/Co/AlO_x

Lopez, A., A. Trifu, I.M. Miron, O. Boulle, S. Auffret, C.O. Avci, K. Garello, P. Gambardella and G. Gaudin

Oral: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Etude de la dynamique des oscillateurs à vortex par synchronisation et modulation de fréquence

Martin, S.Y., C. Thirion, C. Hoarau, C. Baraduc and B. Dieny
Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Study of ultrathin ferromagnetic films using a scanning probe magnetometer based on a single nitrogen-vacancy centre in diamond

Martínez, L.J., T. Hingant, J.-P. Tetienne, S. Rohart, K. Garcia, L. Herrera-Diez, J.-V. Kim, J.-P. Adam, I.M. Miron, G. Gaudin, J.-F. Roch, D. Ravelosona, A. Thiaville and V. Jacques
Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Penetration depth and absorption mechanisms of spin currents in $\text{Ir}_{80}\text{Mn}_{20}$ and $\text{Fe}_{50}\text{Mn}_{50}$ polycrystalline films by ferromagnetic resonance and spin pumping

Merodio Cámara, P., A. Ghosh, C. Lemonias, U. Ebels, M. Chshiev, H. Béa, V. Baltz and W.E. Bailey
Poster: [American Physical Society March Meeting](#), Denver (USA), Mar. 3-7 2014

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Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Spin transfer torque in antiferromagnetic and ferrimagnetic tunnel junctions

Merodio Cámara, P., A. Kalitsov, H. Béa, V. Baltz and M. Chshiev
Oral: [American Physical Society March Meeting](#), Denver (USA), Mar. 3-7 2014

Theoretical investigation of spin transfer torque in antiferromagnetic and ferromagnetic tunnel junctions

Merodio Cámara, P., A. Kalitsov, H. Béa, V. Baltz and M. Chshiev
Oral: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Résonance ferromagnétique de grands réseaux de nanostructures couplées

Mikuszeit, N., A. Marty, B. Viala, J. Alarcon, J.-P. Michel, C. Dubarry, V. Brissoneau, U. Ebels, C. Gourgon, A. Ferchichi and N. Vukadinovic
Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Influence of dipolar interaction on the excitation spectra in standard in-plane STO's

Monteblanco, E., M. Romera, F. Garcia Sanchez, C. Dieudonné, D. Gusakova, B. Dieny, M.-C. Cyrille, L.D. Buda-Prejbeanu and U. Ebels
Poster: Intermag Conference, Dresden (Germany), May 4-8 2014

Role of dynamic interactions on the excitation spectra of STO's

Monteblanco, E., M. Romera, F. Garcia Sanchez, A.S. Jenkins, G. Geranton, B. Lacoste, D. Gusakova, B. Dieny, L.D. Buda-Prejbeanu and U. Ebels
Poster: Skymag Conference, Paris (France), Apr. 9-11 2014

Magnetic nanoparticles prepared by block copolymers and dedicated to different medical imaging techniques

Morcrette, M., S. Tallegas, H. Joisten, R. Tiron, T. Baron, S. Lequien, Y. Hou-Broutin, A. Bsiesy and B. Dieny

Poster: Journées Nano-Microtechnologies au service de la Santé, Saint-Etienne (France), Apr. 3-4 2014

Nanoparticules magnétiques élaborées par copolymères à blocs pour applications biotechnologiques

Morcrette, M., S. Tallegas, H. Joisten, R. Tiron, T. Baron, S. Lequien, Y. Hou-Broutin, A. Bsiesy and B. Dieny

Oral: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Synthesis of mono disperse magnetic nanoparticles prepared on block copolymer templates and dedicated to different imaging techniques

Morcrette, M., S. Tallegas, H. Joisten, R. Tiron, T. Baron, S. Lequien, I. Joumard, Y. Hou-Broutin, A. Bsiesy and B. Dieny

Poster: 7th IEEE Summer School, Rio de Janeiro (Brazil), Aug. 10-15 2014

Coercivity enhancement due to Peierls potential in antiferromagnetic/ferromagnetic bilayers

Moritz, J., P. Bacher and B. Dieny

Oral: Intermag Conference, Dresden (Germany), May 4-8 2014

Systèmes magnéto-mécaniques pour la cartographie de champ magnétique par effet optique

Ortiz, G., T. Dietsch, C. Iss, S. Leulmi, M. Morcrette, P. Sabon, H. Joisten and B. Dieny

Oral: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Spin transfer torque in spin filter tunnel junctions

Pauyac, C.O., A. Kalitsov, A. Manchon and M. Chshiev

Oral: [American Physical Society March Meeting](#), Denver (USA), Mar. 3-7 2014

Spin transfer torque in spin filter tunnel junctions

Pauyac, C.O., A. Manchon, M. Chshiev and A. Kalitsov

Oral: 59th International Conference on Magnetism and Magnetic Materials, Honolulu (USA), Nov. 3-7 2014

Asymétrie chirale de la nucléation dans des microstructures de Pt/Co/AIO_x induite par l'interaction Dzyaloshinskii-Moriya

Pizzini, S., J. Vogel, S. Rohart, L.D. Buda-Prejbeanu, E. Jué, O. Boulle, I.M. Miron, C.K. Safeer, S. Auffret, G. Gaudin and A. Thiaville

Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Characterization of spin torque oscillators based on magnetic tunnel junctions

Purbawati, A., K. Jaimes Merazzo, R. Hida, J. Hem, M. Tortarolo, C. Dieudonné, R. Ferreira, L. Vila, U. Ebels, M.-T. Delaye and M.-C. Cyrille

Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

In-plane and out-of-plane spin precession in lateral spin valves

Rojas Sanchez, J.C., L. Vila, P. Laczkowski, M. Cubukcu, W. Savero Torres, A. Marty, L. Notin, C. Beigné, C. Vergnaud, M. Jamet and J.-P. Attané
Poster: Intermag Conference, Dresden (Germany), May 4-8 2014

Analytical approach to the magnetization dynamics of a two layer coupled system

Romera, M., B. Lacoste, U. Ebels and L.D. Buda-Prejbeanu
Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Interplay between conservative and dissipative couplings for spin torque-driven dynamics of a coupled two layer structure

Romera, M., B. Lacoste, U. Ebels and L.D. Buda-Prejbeanu
Oral: 59th International Conference on Magnetism and Magnetic Materials, Honolulu (USA), Nov. 3-7 2014

Influence of dipolar interaction on the excitation spectra in standard in-plane STOs

Romera, M., E. Montebancho, F. Garcia-Sanchez, D. Gusakova, B. Dieny, M.-C. Cyrille, L.D. Buda-Prejbeanu and U. Ebels
Oral: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Chiral damping of magnetic domain walls

Safeer, C.K., E. Jué, M. Drouard, A. Lopez, P. Balint, L.D. Buda-Prejbeanu, O. Boulle, S. Auffret, A. Schuhl, I.M. Miron and G. Gaudin
Oral: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Chiral damping of field-driven magnetic domain walls

Safeer, C.K., E. Jué, M. Drouard, A. Lopez, P. Balint, L.D. Buda-Prejbeanu, O. Boulle, S. Auffret, A. Schuhl, I.M. Miron and G. Gaudin
Oral: 59th International Conference on Magnetism and Magnetic Materials, Honolulu (USA), Nov. 3-7 2014

Non-Kittel nature of spin wave modes in thin GaMnAsP epilayers

Shihab, S., L. Thévenard, M. Cubukcu, A. Lemaître and C. Gourdon
Oral: Intermag Conference, Dresden (Germany), May 4-8 2014

Size dependence of magnetic switching in perpendicularly magnetized MgO/Co/Pt pillars close to the spin reorientation transition

Stefanowicz, W., L.E. Nistor, J. Vogel, W. Kuch, L.D. Buda-Prejbeanu, G. Gaudin, S. Auffret, B. Rodmacq and S. Pizzini
Oral: Intermag Conference, Dresden (Germany), May 4-8 2014

Couplage auto-cohérent par éléments finis du transport polarisé en spin et de la dynamique d'aimantation dans des géométries complexes

Sturma, M., J.-C. Toussaint and D. Gusakova
Oral: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Self-consistent finite element approach: Magnetization dynamics induced by spin transfer

Sturma, M., J.-C. Toussaint and D. Gusakova

Oral: Condensed Matter in Paris, Paris (France), Aug. 24-29 2014

Geometry effects on spin transport and magnetization dynamics

Sturma, M., J.-C. Toussaint and D. Gusakova

Poster: Magnetic Single Nano-Object Workshop & School, Nancy (France), Sep. 8-11 2014

Self-consistent finite-element approach: Magnetization dynamics induced by spin transfer effects

Sturma, M., D. Gusakova, F. Alouges and J.-C. Toussaint

Oral: Intermag Conference, Dresden (Germany), May 4-8 2014

Structure et énergie des parois de Dzyaloshinskii sous champ planaire

Thiaville, A., S. Rohart, J. Miltat, L.D. Buda-Prejbeanu and S. Pizzini

Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

Interfacial electronic transport phenomena in single crystalline Fe-MgO-Fe thin barrier junctions

Tiusan, C., R.B. Gangineni, C. Bellouard, A. Duluard, B. Negulescu, C. Baraduc and G. Gaudin

Oral: Intermag Conference, Dresden (Germany), May 4-8 2014

Phase noise analysis of a noisy spin torque oscillator synchronized to an external signal

Tortarolo, M., C. Dieudonné, M. Quinsat, L.D. Buda-Prejbeanu, M.-C. Cyrille and U. Ebels

Oral: 59th International Conference on Magnetism and Magnetic Materials, Honolulu (USA), Nov. 3-7 2014

Injection locking at 2f of spin torque oscillators under influence of noise

Tortarolo, M., C. Dieudonné, M. Quinsat, L.D. Buda-Prejbeanu, M.-C. Cyrille, J.A. Katine and U. Ebels

Poster: Colloque Louis Néel, Autrans (France), Sep. 23-26 2014

First-principles investigation of magnetocrystalline anisotropy at full Heusler/MgO interfaces

Vadapoo, R., A. Hallal and M. Chshiev

Oral: [American Physical Society March Meeting](#), Denver (USA), Mar. 3-7 2014

Hall Effect induced by spin-wave excitation in metal/ferromagnetic insulator bilayer

Vedyaev, A.V., M.Ye. Zhuravlev, M.S. Titova, N.V. Ryzhanova and D. Gusakova

Oral: Moscow International Symposium on Magnetism, Moscow (Russia), Jun. 29-Jul. 3 2014

Influence of Dzyaloshinskii-Moriya interaction on magnetic switching of pillars with perpendicular magnetic anisotropy

Vogel, J., L.E. Nistor, L.D. Buda-Prejbeanu, W. Kuch, W. Stefanowicz, G. Gaudin, S. Auffret, B. Rodmacq and S. Pizzini

Poster: Skymag Conference, Paris (France), Apr. 9-11 2014

Anatomy of perpendicular magnetic anisotropy in MgO-based magnetic tunnel junctions from first principles

Yang, H.X., H. Hallal, B. Dieny and M. Chshiev

Oral: Moscow International Symposium on Magnetism, Moscow (Russia), Jun. 29-Jul. 3 2014

2013

INVITED PRESENTATIONS

Towards lower energy control of magnetization for spintronics

Béa, H.

Les 50 ans du Campus CNRS, Grenoble (France), Apr. 10-11 2013

Electric field control of domain wall nucleation and pinning in a metallic ferromagnet

Bernard-Mantel, A., L. Herrera Diez, L. Ranno, S. Pizzini, J. Vogel, D. Givord, S. Auffret, O. Boulle, I.M. Miron and G. Gaudin

International French-US Workshop, San Diego (USA), Jul. 8-12 2013

Imaging magnetization reversal of interfacial exchange coupling

Camarero, J., E. Jiménez, P. Perna, A. Bollero, J.L.F. Cuñado, D. Maccariello, J. Vogel, R. Miranda, F. Yakhou-Harris, G. Gaudin, B. Rodmacq, E. Gautier, S. Auffret, B. Delaup and B. Dieny

58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Mechanisms of perpendicular magnetic anisotropy and interlayer exchange coupling in MgO-based tunnel junctions

Chshiev, M.

[American Physical Society March Meeting](#), Baltimore (USA), Mar. 18-22 2013

Magnetic tunnel junctions: Functional role of each layer

Dieny, B.

Introductory Course on Magnetic Random Access Memory, Grenoble (France), Jul. 1-3 2013

Working principle of various MRAM families

Dieny, B.

Introductory Course on Magnetic Random Access Memory, Grenoble (France), Jul. 1-3 2013

Remaining issues in STT-RAM development and guidelines for their optimization

Dieny, B.

2nd STT-RAM Global Innovation Workshop, Tokyo (Japan), Nov. 20 2013

Downsize scalability of STT-RAM

Dieny, B., R.C. Sousa, S. Bandiera, S. Amara-Dababi, L. Cuchet, P.-Y. Clément, B. Rodmacq, C. Baraduc and H. Béa

International French-US Workshop, San Diego (USA), Jul. 8-12 2013

Downsize scalability of STT-RAM

Dieny, B., R.C. Sousa, S. Bandiera, S. Amara-Dababi, L. Cuchet, P.-Y. Clément, B. Rodmacq, C. Baraduc and H. Béa
York-Tohoku Research Symposium on Magnetic Materials and Spintronic Devices, York (United Kingdom), Jun. 10-12 2013

Spin transfer torque random access memories

Dieny, B., R.C. Sousa, S. Bandiera, S. Amara-Dababi, B. Lacoste, L. Cuchet, S. Auffret, B. Rodmacq and H. Béa
Advanced Metallization Conference, Albany (USA), Oct. 21-23 2013

Spintronics, spintronics materials, device classes and potential applications

Ebels, U.

[Erasmus Intensive Programme PLASMAG](#), Poznan (Poland), Jun. 30-Jul. 13 2013

Spin-orbitronics with skyrmions, spin Hall and Rashba effects

Fert, A., V. Cros, C. Deranlot, J.-M. George, J. Grollier, H. Jaffrès, N. Reyren, J. Sampaio, Y. Kawanishi, Y. Niimi, Y. Otani, D.H. Wei, M. Chshiev, S. Rohart, A. Thiaville, H.X. Yang, J.-P. Attané, P. Laczkowski, J.C. Rojas Sanchez, L. Vila, A.V. Khvalkovskiy, J.M. de Teresa and P.M. Levy
International French-US Workshop, San Diego (USA), Jul. 8-12 2013

Spin-orbit torques in ferromagnetic thin films

Gaudin, G., I.M. Miron, K. Garello, P.-J. Zermatten, M.V. Costache, S. Auffret, S. Bandiera, B. Rodmacq, A. Schuhl and P. Gambardella
12th Joint MMM-Intermag Conference, Chicago (USA), Jan. 14-18 2013

Magnetic nanoparticles for biotechnology and biomedical applications elaborated by a top-down approach

Joisten, H., P. Sabon, S. Leulmi, T. Dietsch, C. Iss, J. Faure-Vincent, S. Auffret and B. Dieny
BIT's 4th Annual World Congress of Nanomedicine, Suzhou (China), Jun. 5-7 2013

Current-induced domain wall motion in the presence of a magnetic field in Pt/Co/AIO_x nanostripes

Jué, E., I.M. Miron, O. Boulle, S. Pizzini, J. Vogel, S. Rohart, A. Thiaville, L.D. Buda-Prejbeanu, A. Hrabec, M. Bonfim, S. Auffret, A. Schuhl and G. Gaudin
International French-US Workshop, San Diego (USA), Jul. 8-12 2013

Spin-polarised currents and magnetization textures

Marrows, C., S. Lepadatu, N. Porter, K.M. Seemann, M. Hickey, V. Baltz, J. Claydon, D. Ciudad, B. Dalton, P. Sinha, M. Ward, R. Brydson, R. Beacham, M. Benitez Romero, D. McGrouther, T. Charlton, C. Kinane, S. Langridge, A. Dobrynin, A. Potenza, H. Marchetto, S.S. Dhesi, S. McVitie, B. Hickey, G. Burnell and T.A. Moore
8th International Symposium on Metallic Multilayers, Kyoto (Japan), May 19-24 2013

Spin-orbit torques in ferromagnetic thin films

Miron, I.M.

Gordon Research Conference, Hong Kong (China), Aug. 18-23 2013

Spin-orbit torques in ferromagnetic thin films

Miron, I.M., K. Garello, E. Jué, G. Gaudin, P.-J. Zermatten, M.V. Costache, S. Auffret, S. Bandiera, B. Rodmacq, J. Vogel, S. Pizzini, A. Schuhl and P. Gambardella
9th International Symposium on Hysteresis Modelling and Micromagnetics, Taormina (Italy), May 13-15 2013

Spin-orbit torques in ferromagnetic thin films

Miron, I.M., K. Garello, E. Jué, G. Gaudin, P.-J. Zermatten, M.V. Costache, S. Auffret, S. Bandiera, B. Rodmacq, J. Vogel, S. Pizzini, A. Schuhl and P. Gambardella
Materials Research Society Fall Meeting, Boston (USA), Dec. 1-6 2013

Giant spin Hall Effect induced by skew scattering on high SO impurities in copper

Niimi, Y., Y. Kawanishi, D.H. Wei, C. Deranlot, H.X. Yang, M. Chshiev, T. Valet, A. Fert and Y. Otani
12th Joint MMM-Intermag Conference, Chicago (USA), Jan. 14-18 2013

MRAM processing

Nozières, J.-P.
Introductory Course on Magnetic Random Access Memory, Grenoble (France), Jul. 1-3 2013

Magnetic logic functionalities and scalability of thermally-assisted MRAMs

Prejbeanu, I.L., R.C. Sousa, B. Dieny, J.-P. Nozières, S. Bandiera and K. Mackay
12th Low Voltage-Low Power Conference, Paris (France), Jun. 19-21

Scalability and logic functionalities of TA-MRAMs

Prejbeanu, I.L., R.C. Sousa, Q. Stainer, B. Dieny, J.-P. Nozières, S. Bandiera, J. Alvarez-Hérault, L. Lombard and C. Ducruet
11th IEEE International Newcas Conference, Paris (France), Jun. 16-19 2013

Design tools for CMOS/MTJ integrated electronics

Prenat, G.
Introductory Course on Magnetic Random Access Memory, Grenoble (France), Jul. 1-3 2013

Experimental characterization of non-isochronous properties of spin torque nano-oscillators

Quinsat, M., F. Garcia Sanchez, V. Tiberkevich, D. Gusakova, A.S. Jenkins, L.D. Buda-Prejbeanu, J.A. Katine, A. Zeltser, B. Dieny, M.-C. Cyrille, A. Slavin and U. Ebels
International Symposium on Spin Waves, Saint-Petersburg (Russia), Jun. 9-15 2013

GMAG PhD Dissertation Research Award Talk: Experimental characterization of non-isochronous properties of spin torque nano-oscillators

Quinsat, M., F. Garcia Sanchez, V. Tiberkevich, D. Gusakova, A.S. Jenkins, L.D. Buda-Prejbeanu, J.A. Katine, A. Zeltser, B. Dieny, M.-C. Cyrille, A. Slavin and U. Ebels
[American Physical Society March Meeting](#), Baltimore (USA), Mar. 18-22 2013

Exchange bias in multiferroic-based systems

Safeer, C.K., M. Chamfrault, J. Allibe, C. Carretero, C. Deranlot, E. Jacquet, J.-F. Jacquot, M. Bibes, A. Barthélémy, B. Dieny, V. Baltz and H. Béa
Eastmag Conference, Vladivostok (Russia), Sep. 15-21 2013

Temperature effects in magnetic tunnel junctions and thermally-assisted MRAM concept for sub-20nm scaling

Sousa, R.C., S. Bandiera, E. Gapihan, L. Lombard, L. San Emeterio Alvarez, L.E. Nistor, L.D. Buda-Prejbeanu, S. Auffret, L. Vila, I.L. Prejbeanu, B. Rodmacq and B. Dieny

Donostia International Conference on Nanoscaled Magnetism and Applications, San Sebastian (Spain), Sep. 9-13 2013

Dynamics of Dzyaloshinskii domain walls in ultrathin magnetic films

Thiaville, A., S. Rohart, E. Jué, V. Cros and A. Fert

8th International Symposium on Metallic Multilayers, Kyoto (Japan), May 19-24 2013

ORAL AND POSTER PRESENTATIONS

Benefit of (Cu/Pt) intermixing dual barrier for the blocking temperature distribution of Co/(Cu/Pt)/IrMn

Akmaldinov, K., S. Auffret, I. Joumard, B. Dieny and V. Baltz

Oral: Joint European Magnetic Symposia, Rhodes (Greece), Aug. 25-30 2013

Optimisation des contributions relatives grains-verres de spin aux distributions bimodales de température de blocage de couches minces pour TA-MRAM

Akmaldinov, K., C. Ducruet, C. Portemont, I. Joumard, S. Auffret, I.L. Prejbeanu, B. Dieny and V. Baltz

Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Optimisation des contributions relatives grains-verres de spin aux distributions bimodales de température de blocage de couches minces pour TA-MRAM

Akmaldinov, K., C. Ducruet, C. Portemont, I. Joumard, S. Auffret, I.L. Prejbeanu, B. Dieny and V. Baltz

Poster: Journée Spintronique et Nanomagnétisme à Grenoble, Noyarey (France), Feb. 21 2013

Optimisation des contributions relatives grains-verres de spin aux distributions bimodales de température de blocage de couches minces pour TA-MRAM

Akmaldinov, K., C. Ducruet, C. Portemont, I. Joumard, S. Auffret, I.L. Prejbeanu, B. Dieny and V. Baltz

Poster: European School on Magnetism, Cargèse (France), Feb. 25-Mar. 8 2013

Mixing antiferromagnets to tune NiFe-(IrMn/FeMn) interfaces and related TA-MRAM exchange bias dispersions

Akmaldinov, K., C. Ducruet, C. Portemont, J. Vidal, I. Joumard, I.L. Prejbeanu, B. Dieny and V. Baltz

Oral: Joint European Magnetic Symposia, Rhodes (Greece), Aug. 25-30 2013

Mixing antiferromagnets to tune NiFe-(IrMn/FeMn) interfaces and related TA-MRAM exchange bias dispersions

Akmaldinov, K., C. Ducruet, C. Portemont, J. Vidal, I. Joumard, I.L. Prejbeanu, B. Dieny and V. Baltz

Oral: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Mécanismes de claquage de jonctions tunnel magnétiques à base de MgO et corrélation avec le bruit basse fréquence

Amara-Dababi, S., H. Béa, R.C. Sousa, C. Baraduc, J. Alvarez-Hérault, K. Mackay and B. Dieny

Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Breakdown mechanisms in MgO-based magnetic tunnel junctions and correlation with low-frequency noise

Amara-Dababi, S., R.C. Sousa, H. Béa, C. Baraduc, K. Mackay and B. Dieny

Oral: 24th European Symposium on Reliability of Electron Devices, Failure Physics and Analysis, Arcachon (France), Sep. 30-Oct. 4 2013

Giant thermo-electric effect in MgO magnetic tunnel junctions asymmetrically heated by hot electron tunneling current

Amara-Dababi, S., R.C. Sousa, H. Béa, K. Mackay and B. Dieny

Poster: 12th Joint MMM-Intermag Conference, Chicago (USA), Jan. 14-18 2013

3D integrated magnetic sensor

Aurino, M., Y. Dahmane, P. Sabon, S. Bandiera, S. Auffret, I.L. Prejbeanu and G. Gaudin

Poster: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Annealing study of spin-orbit torques in perpendicularly magnetized Ta/CoFeB/MgO layers

Avci, C.O., K. Garello, I.M. Miron, G. Gaudin and P. Gambardella

Oral: Joint European Magnetic Symposia, Rhodes (Greece), Aug. 25-30 2013

Annealing study of spin-orbit torques in perpendicularly-magnetized Ta/CoFeB/MgO layers

Avci, C.O., K. Garello, I.M. Miron, G. Gaudin and P. Gambardella

Oral: International Conference on Nanoscale Magnetism, Istanbul (Turkey), Sep. 2-6 2013

Large *rf* signal phase offset in ferromagnetic heterostructures

Bailey, W.E., C. Cheng, S. Auffret, R. Knut, O. Karis, S. Zohar, D. Keavney, P. Warrnicke, J.S. Lee and D.A. Arena

Oral: 12th Joint MMM-Intermag Conference, Chicago (USA), Jan. 14-18 2013

Spin scattering by induced moments in ultrathin paramagnets

Bailey, W.E., A. Ghosh, S. Auffret, U. Ebels, F. Wilhelm and A. Rogalev

Oral: 12th Joint MMM-Intermag Conference, Chicago (USA), Jan. 14-18 2013

Contrôle électrique de la nucléation et du piégeage de parois magnétiques dans un métal ferromagnétique

Bernand-Mantel, A., L. Herrera Diez, L. Ranno, S. Pizzini, J. Vogel, D. Givord, S. Auffret, O. Boulle, I.M. Miron and G. Gaudin

Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Electric field control of domain wall nucleation and pinning in a metallic ferromagnet

Bernand-Mantel, A., L. Herrera Diez, L. Ranno, S. Pizzini, J. Vogel, D. Givord, S. Auffret, O. Boulle, I.M. Miron and G. Gaudin

Oral: Joint European Magnetic Symposia, Rhodes (Greece), Aug. 25-30 2013

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Bernand-Mantel, A., L. Herrera Diez, L. Ranno, S. Pizzini, J. Vogel, D. Givord, I.M. Miron, O. Boulle, S. Auffret and G. Gaudin

Oral: 8th International Symposium on Metallic Multilayers, Kyoto (Japan), May 19-24 2013

Control of the magnitude and sign of the hysteresis loop shift for CoFeB (in-plane)/epitaxial-SmCo₅ (perpendicular) bilayers

Bollero, A., F. Pedrosa, J. Camarero, R. Miranda, M. Seifert, V. Neu, L. Schultz, V. Baltz, B. Dieny, R. Pérez del Real and M. Vasquez

Oral: 12th Joint MMM-Intermag Conference, Chicago (USA), Jan. 14-18 2013

Isothermal control of the magnitude and sign of the exchange bias field in ferromagnetic bilayers orthogonally coupled

Bollero, A., F. Pedrosa, J. Camarero, M. Seifert, V. Neu, V. Baltz, D. Serantes, O. Chubykalo-Fesenko, R. Pérez del Real, M. Vasquez, L. Schultz, B. Dieny and R. Miranda

Oral: Donostia International Conference on Nanoscaled Magnetism and Applications, San Sebastian (Spain), Sep. 9-13 2013

Domain wall dynamics in out-of-plane magnetized magnetic tracks in the presence of Dzyaloshinskii-Moriya interaction

Boulle, O., I.L. Prejbeanu, E. Jué, I.M. Miron, A. Thiaville, S. Rohart, S. Pizzini, J. Vogel, A. Thiaville and G. Gaudin

Oral: 9th International Symposium on Hysteresis Modelling and Micromagnetics, Taormina (Italy), May 13-15 2013

Domain wall tilting in out-of-plane magnetized magnetic tracks in the presence of Dzyaloshinskii-Moriya interaction

Boulle, O., S. Rohart, L.D. Buda-Prejbeanu, E. Jué, I.M. Miron, S. Pizzini, J. Vogel, G. Gaudin and A. Thiaville

Oral: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Domain wall tilting in magnetic tracks in the presence of Dzyaloshinskii-Moriya interaction

Boulle, O., S. Rohart, L.D. Buda-Prejbeanu, E. Jué, I.M. Miron, S. Pizzini, J. Vogel, A. Thiaville and G. Gaudin

Oral: Joint European Magnetic Symposia, Rhodes (Greece), Aug. 25-30 2013

Domain wall tilting in the presence of the Dzyaloshinskii-Moriya interaction in out-of-plane magnetized nanotracks

Buda-Prejbeanu, L.D., O. Boulle, E. Jué, I.M. Miron, G. Gaudin, S. Rohart, A. Thiaville, S. Pizzini and J. Vogel

Oral: ANR Micro-manip, Grenoble (France), Jun. 5-6 2013

Imaging magnetization reversal of interfacial exchange coupling

Camarero, J., E. Jiménez, P. Perna, A. Bollero, J.L.F. Cuñado, D. Maccariello, R. Miranda, J. Vogel, C. Tieg, F. Yakhou-Harris, G. Gaudin, B. Rodmacq, E. Gautier, S. Auffret, B. Delaup and B. Dieny

Oral: Joint European Magnetic Symposia, Rhodes (Greece), Aug. 25-30 2013

Size- and temperature-dependent damping in ferromagnetic ultrathin films: Role of electron scattering time in Ni₈₁Fe₁₉, Co and CoFeB

Cheng, C., A. Ghosh, S. Auffret, U. Ebels and W.E. Bailey

Oral: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Characterization of double barrier magnetic tunnel junctions by current-in-plane tunnelling

Clément, P.-Y., C. Ducruet, C. Baraduc, M. Chshiev and B. Dieny

Poster: 12th Joint MMM-Intermag Conference, Chicago (USA), Jan. 14-18 2013

Caractérisation en transport longitudinal de jonctions tunnel magnétiques à double barrière

Clément, P.-Y., C. Ducruet, C. Baraduc, M. Chshiev and B. Dieny

Oral: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Characterization of double barrier magnetic tunnel junctions by current-in-plane tunnelling

Clément, P.-Y., C. Ducruet, C. Baraduc, M. Chshiev and B. Dieny

Poster: Journée Spintronique et Nanomagnétisme à Grenoble, Noyarey (France), Feb. 21 2013

Characterization of double barrier magnetic tunnel junctions by current-in-plane tunnelling

Clément, P.-Y., C. Ducruet, C. Baraduc, M. Chshiev and B. Dieny

Poster: IEEE Magnetics Society Summer School, Assisi (Italy), Jun. 9-14 2013

Three-terminal perpendicular magnetic tunnel junction for spin-orbit torque RAM memory

Cubukcu, M., O. Boulle, M. Drouard, I.M. Miron, K. Garello, P. Gambardella, B. Ocker, J. Langer, M.-C. Cyrille and G. Gaudin

Poster: International Conference on Nanoscale Magnetism, Istanbul (Turkey), Sep. 2-6 2013

Spin transport in graphene-based lateral spin valves

Cubukcu, M., M.B. Martin, P. Laczowski, C. Vergnaud, A. Marty, C. Beigné, L. Notin, J.-P. Attané, L. Vila, P. Seneor, M. Anane, C. Deranlot, S. Auffret, A. Fert and M. Jamet

Oral: 12th Joint MMM-Intermag Conference, Chicago (USA), Jan. 14-18 2013

Lateral spin valves with graphene spin channels

Cubukcu, M., M.B. Martin, C. Vergnaud, P. Laczowski, A. Marty, S. Auffret, C. Deranlot, P. Seneor, M. Anane, J.-P. Attané, L. Vila, A. Fert and M. Jamet

Oral: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Spin signal in various lateral spin valves

Cubukcu, M., J.C. Rojas Sanchez, P. Laczowski, C. Vergnaud, L. Vila, J.-P. Attané, A. Marty and M. Jamet

Oral: International Conference on Nanoscale Magnetism, Istanbul (Turkey), Sep. 2-6 2013

Influence de l'insert de Ta sur les propriétés magnétiques et de transport de jonctions tunnel magnétiques à aimantation perpendiculaire

Cuchet, L., B. Rodmacq, S. Auffret, C. Ducruet, S. Bandiera, R.C. Sousa and B. Dieny

Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Influence of Ta insertion on the magnetic and transport properties of perpendicular tunnel junctions

Cuchet, L., B. Rodmacq, S. Auffret, C. Ducruet, S. Bandiera, R.C. Sousa and B. Dieny

Poster: Journée Spintronique et Nanomagnétisme à Grenoble, Noyarey (France), Feb. 21 2013

Development of magnetic tunnel junctions with perpendicular anisotropy: Influence of Ta insertion on the magnetic and transport properties

Cuchet, L., B. Rodmacq, S. Auffret, C. Ducruet, S. Bandiera, R.C. Sousa and B. Dieny

Poster: European School on Magnetism, Cargèse (France), Feb. 25-Mar. 8 2013

Influence of a metallic spacer on the magnetic and transport properties of perpendicular tunnel junctions

Cuchet, L., B. Rodmacq, S. Auffret, R.C. Sousa, C. Ducruet and B. Dieny
Oral: Joint European Magnetic Symposia, Rhodes (Greece), Aug. 25-30 2013

Influence of Dzyaloshinskii-Moriya interaction on spin transfer torque

Deus da Silva, F., C. Lacroix and M. Chshiev
Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

STT-MRAM for low-power non-volatile logic ASIC applications

Di Pendina, G., G. Prenat and B. Dieny
Oral: Design Automation Conference, Austin (USA), Jun. 2-6 2013

Mémoires magnétiques et dispositifs

Dieny, B.
Oral: Journée Spintronique et Nanomagnétisme à Grenoble, Noyarey (France), Feb. 21 2013

Micro/nano-nageurs magnétiques pour applications biotechnologiques

Dietsch, T., S. Leulmi, C. Iss, H. Joisten, P. Sabon and B. Dieny
Oral: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Anatomy of spin-orbit torques in asymmetric heterostructures

Drouard, M., I.M. Miron, O. Boulle, K. Garello, P. Gambardella and G. Gaudin
Poster: Journée Spintronique et Nanomagnétisme à Grenoble, Noyarey (France), Feb. 21 2013

Dynamique de l'aimantation

Ebels, U.
Oral: Journée Spintronique et Nanomagnétisme à Grenoble, Noyarey (France), Feb. 21 2013

Spin-orbitronics

Fert, A., V. Cros, C. Deranlot, J.-M. George, J. Grollier, H. Jaffrès, N. Reyren, J. Sampaio, K. Kawanishi, Y. Niimi, Y. Otani, D.H. Wei, M. Chshiev, S. Rohart, A. Thiaville, H.X. Yang, J.-P. Attané, P. Laczkowski, J.C. Rojas Sanchez, L. Vila, A.V. Khvalkovskiy and J.M. de Teresa
Oral: Joint European Magnetic Symposia, Rhodes (Greece), Aug. 25-30 2013

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Oral: Spin-Orbit Torque Workshop, Thuwal (Saudi Arabia), Feb. 23-28 2013

Perpendicular magnetic anisotropy driven by annealing and measurement temperatures in Pt/Co/MgO

Fettar, F., H.M. Garad, L. Ortega, O. Proux, B. Dieny, S. Auffret and B. Rodmacq
Oral: 12th Joint MMM-Intermag Conference, Chicago (USA), Jan. 14-18 2013

Influence of perpendicular spin torque on the dynamics of a synthetic antiferromagnet-based spin transfer oscillator

Firastrau, I., L.D. Buda-Prejbeanu and U. Ebels

Poster: Nanosmat Conference, Granada (Spain), Sep. 22-25 2013

Estimation of the amplitude-phase coupling parameter from the linewidth in spin transfer oscillators

Garcia Sanchez, F., J.F. Sierra Garcia, M. Quinsat, A.S. Jenkins, D. Gusakova, L.D. Buda-Prejbeanu, B. Dieny and U. Ebels

Oral: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Non-linear effects on the linewidth of spin torque oscillators

Garcia Sanchez, F., J.F. Sierra Garcia, M. Quinsat, U. Ebels, A.S. Jenkins, D. Gusakova, L.D. Buda-Prejbeanu and B. Dieny

Poster: Journée Spintronique et Nanomagnétisme à Grenoble, Noyarey (France), Feb. 21 2013

Estimation of the amplitude-phase coupling parameter from the linewidth of spin transfer oscillators: Normalized temperature method

Garcia Sanchez, F., J.F. Sierra Garcia, M. Quinsat, D. Gusakova, L.D. Buda-Prejbeanu, B. Dieny and U. Ebels

Poster: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Symmetry and magnitude of spin-orbit torques in ferromagnetic heterostructures

Garello, K., A. Gosh, I.M. Miron, C.O. Avci, F. Freimuth, Y. Mokrousov, S. Blügel, S. Auffret, O. Boulle, G. Gaudin and P. Gambardella

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Oral: International Conference on Nanoscale Magnetism, Istanbul (Turkey), Sep. 2-6 2013

Dynamique des parois magnétiques

Gaudin, G. and J.-P. Attané

Oral: Journée Spintronique et Nanomagnétisme à Grenoble, Noyarey (France), Feb. 21 2013

Non-volatile runtime-reconfigurable FPGA secured through MRAM-based periodic refresh

Gonçalves, O., G. Prenat, G. di Pendina, C. Layer and B. Dieny

Poster: 5th IEEE International Memory Workshop, Monterey (USA), May 26-29 2013

Radiation-hardened MRAM-based FPGA

Gonçalves, O., G. Prenat and B. Dieny

Poster: 12th Joint MMM-Intermag Conference, Chicago (USA), Jan. 14-18 2013

Transport dépendant du spin et dynamique d'aimantation - simulations

Gusakova, D.

Oral: Journée Spintronique et Nanomagnétisme à Grenoble, Noyarey (France), Feb. 21 2013

Maximizing the perpendicular magnetic anisotropy in Fe|MgO magnetic tunnel junctions by impurities addition: Ab-initio calculations

Hallal, A., B. Dieny and M. Chshiev

Oral: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Magnetic insulators-induced proximity effects in graphene

Hallal, A., H.X. Yang, D. Terrade, X. Waintal, S. Roche and M. Chshiev

Oral: [American Physical Society March Meeting](#), Baltimore (USA), Mar. 18-22 2013

Magnetic micro/nano-tweezers functionalized for biological and medical applications

Iss, C., H. Joisten, T. Dietsch, S. Leulmi, M. Morcrette, S. Auffret, E. Gautier, P. Sabon, Y. Hou-Broutin, T. Livache, J. Faure-Vincent, R. Calemczuk, C. Benoît, D. Peyrade and B. Dieny

Oral: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Micro/nano-pinces magnétiques fonctionnalisées et dispersées en solution pour applications biotechnologiques et médicales

Iss, C., H. Joisten, T. Dietsch, S. Leulmi, P. Sabon, Y. Hou-Broutin, L. Livache, J. Faure-Vincent, R. Calemczuk, C. Benoît, D. Peyrade, S. Auffret, E. Gautier and B. Dieny

Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Magnetic micro/nano-tweezers functionalized and dispersed in solution for biological and medical applications

Iss, C., H. Joisten, T. Dietsch, S. Leulmi, P. Sabon, Y. Hou-Broutin, L. Livache, J. Faure-Vincent, R. Calemczuk, C. Benoît, D. Peyrade, S. Auffret, E. Gautier and B. Dieny

Poster: IEEE Summer School, Assisi (Italy), Jun. 10-14 2013

Magnetic micro/nano-tweezers functionalized and dispersed in solution for biological and medical applications

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Poster: Journées ANR J3N, Marseille (France), Nov. 4-6 2013

Study of two writing schemes for a magnetic tunnel junction based on spin-orbit torque

Jabeur, K., G. di Pendina, G. Prenat and L.D. Buda-Prejbeanu

Oral: International Conference on Circuits, Devices and Systems, Kuala Lumpur (Malaysia), Aug. 22-23 2013

Magnetic RAM based on spin-orbit torque: Study of two writing schemes

Jabeur, K., G. di Pendina, G. Prenat and L.D. Buda-Prejbeanu

Oral: International Workshop on Semiconductor Devices, Circuits and Systems, Barcelona (Spain), Sep. 12-14 2013

Compact model of a three-terminal MRAM device based on spin-orbit torque switching

Jabeur, K., G. di Pendina, G. Prenat, L.D. Buda-Prejbeanu, I.L. Prejbeanu and B. Dieny

Oral: International Semiconductor Conference Dresden-Grenoble, Dresden (Germany), Sep. 26-27 2013

Nanofabrication of spin torque oscillators based on spin valves and MTJ's

Jaimes Merazzo, K., K.L. Garcia Hernandez, E. Montebancho, U. Ebels, A.S. Jenkins, J. Feng, M.-C. Cyrille, M.-T. Delaye and L. Vila

Poster: Journée Spintronique et Nanomagnétisme à Grenoble, Noyarey (France), Feb. 21 2013

Spin torque oscillators based on spin valves and magnetic tunnel junctions

Jaimes Merazzo, K., M. Tortarolo, C. Dieudonné, E. Montebancho, M. Romera, J. Hem, A. Purbawati, L.D. Buda-Prejbeanu, D. Gusakova, M.-C. Cyrille and U. Ebels

Oral: 8th Symposium on Advanced Materials Science and Nanotechnology, San José (Costa Rica), Dec. 9-12 2013

Transition from spin accumulation into interface states to spin injection in the Ge and Si conduction bands

Jain, A., J.C. Rojas Sanchez, M. Cubukcu, J. Peiro, J.-C. Le Breton, E. Prestat, C. Vergnaud, C. Portemont, C. Ducruet, V. Baltz, A. Barski, P. Bayle-Guillemaud, L. Vila, J.-P. Attané, E. Augendre, G. Desfonds, S. Gambarelli, H. Jaffrès, J.-M. George and M. Jamet

Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Transition from spin accumulation into interface states to spin injection in the Ge conduction band

Jamet, M., A. Jain, C. Vergnaud, J. Peiro, J.-C. Le Breton, E. Prestat, L. Louahadj, C. Portemont, C. Ducruet, V. Baltz, A. Marty, A. Barski, P. Bayle-Guillemaud, L. Vila, J.-P. Attané, E. Augendre, H. Jaffrès and J.-M. George
Oral: 12th Joint MMM-Intermag Conference, Chicago (USA), Jan. 14-18 2013

Full phase diagram of spin torque oscillators with perpendicular polariser

Jenkins, A.S., J.F. Sierra Garcia, F. Garcia Sanchez, M. Quinsat, B. Rodmacq, B. Delaët, B. Dieny, M.-C. Cyrille and U. Ebels
Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Extended phase diagram of spin torque oscillators with perpendicular polariser

Jenkins, A.S., J.F. Sierra Garcia, F. Garcia Sanchez, M. Quinsat, B. Rodmacq, B. Delaët, B. Dieny, M.-C. Cyrille and U. Ebels
Oral: Donostia International Conference on Nanoscaled Magnetism and Applications, San Sebastian (Spain), Sep. 9-13 2013

Etude du déplacement de parois magnétiques sous courant en présence d'un champ transverse dans les multicouches Pt/Co/AIO_x

Jué, E., A. Hrabec, O. Boulle, I.M. Miron, S. Auffret, B. Rodmacq, S. Bandiera, S. Pizzini, J. Vogel, A. Schuhl and G. Gaudin
Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Current-induced domain walls motion in the presence of spin-orbit torque in Pt/Co/AIO_x trilayers

Jué, E., A. Hrabec, O. Boulle, I.M. Miron, S. Auffret, B. Rodmacq, S. Bandiera, S. Pizzini, J. Vogel, A. Schuhl and G. Gaudin
Poster: Spin-Orbit Torque Workshop, Thuwal (Saudi Arabia), Feb. 23-28 2013

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Oral: 12th Joint MMM-Intermag Conference, Chicago (USA), Jan. 14-18 2013

Current-induced domain wall motion in ultra-thin layer with strong spin-orbit interaction

Jué, E., I.M. Miron, O. Boulle, S. Pizzini, J. Vogel, A. Thiaville, S. Rohart, L.D. Buda-Prejbeanu, S. Auffret, A. Hrabec, M. Bonfim and G. Gaudin
Poster: Joint European Magnetic Symposia, Rhodes (Greece), Aug. 25-30 2013

Current- and field-induced domain wall motion in ultra-thin magnetic layer with strong spin-orbit interaction

Jué, E., I.M. Miron, O. Boulle, S. Pizzini, J. Vogel, A. Thiaville, S. Rohart, L.D. Buda-Prejbeanu, A. Lopez, S. Auffret, M. Bonfim, A. Schuhl and G. Gaudin
Poster: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Ultra-sensitive MTJ-based magnetic field sensor

Kavaldzhiev, M., P. Sabon, N. Dempsey, D. Le Roy, C. Cavoit, C. Baraduc, I.L. Prejbeanu and B. Dieny
Poster: 39th International Conference on Micro- and Nano-Engineering, London (United Kingdom), Sep. 16-19 2013

Ultra-sensitive magnetic field sensor

Kavaldzhiev, M., P. Sabon, D. Le Roy, N. Dempsey, C. Cavoit, C. Baraduc, I.L. Prejbeanu and B. Dieny
Poster: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Control of sub-nanosecond precessional switching in STT-RAM cells

Lacoste, B., R.C. Sousa, L.D. Buda-Prejbeanu, M. Marins de Castro Souza, T. Devolder, C. Ducruet, A. Chavent, A. Mejdoubi, S. Auffret, U. Ebels, B. Rodmacq and B. Dieny
Poster: 12th Joint MMM-Intermag Conference, Chicago (USA), Jan. 14-18 2013

Retournement ultra-rapide et sans oscillations dans une jonction tunnel planaire avec polariseur perpendiculaire

Lacoste, B., R.C. Sousa, M. Marins de Castro Souza, T. Devolder, L.D. Buda-Prejbeanu, S. Auffret, U. Ebels, C. Ducruet, L. Vila, B. Rodmacq and B. Dieny
Oral: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Atom probe tomography direct imaging of thermally activated atomic diffusions through grain boundaries for exchange biased stacks

Letellier, F., L. Lechevallier, R. Lardé, J.-M. Le Breton, K. Akmalidinov, V. Baltz, S. Auffret and B. Dieny
Oral: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Caractérisation à l'échelle atomique de multicouches magnétiques (Cu/Co/IrMn)₅/Pt par sonde atomique tomographique: Corrélation avec les propriétés magnétiques

Letellier, F., L. Lechevallier, R. Lardé, J.-M. Le Breton, V. Baltz, B. Rodmacq and B. Dieny
Oral: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Comparaison de l'auto-polarisation/dispersion de particules magnétiques antiferromagnétiques synthétiques et vortex pour la destruction de cellules cancéreuses par vibrations de quelques Hz

Leulmi, S., T. Dietsch, C. Iss, Y. Hou-Broutin, J. Faure-Vincent, J.-C. Le Breton, S. Sauvaigo, T. Douki, H. Joisten, P. Sabon, S. Auffret and B. Dieny
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Comparison of self-polarization effects in synthetic antiferromagnetic and vortex magnetic microparticles and their use for triggering cancer cells apoptosis

Leulmi, S., H. Joisten, T. Dietsch, C. Iss, M. Morcrette, P. Sabon, M. Carrière, Y. Hou-Broutin and B. Dieny
Oral: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Mémoires basées sur la manipulation de parois de domaines dans des multicouches magnétiques à effet Rashba

Lopez, A., O. Boule, I.M. Miron and G. Gaudin
Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Spin torque efficiency measurement in Pt/Co/AIO trilayers

Lopez, A., A. Trifu, I.M. Miron, O. Boule, S. Auffret, C.O. Avci, K. Garello and G. Gaudin
Poster: Gordon Research Conference, Hong Kong (China), Jul. 28-Aug. 2 2013

Two-tone experiment in a vortex spin torque nano-oscillator

Martin, S., C. Thirion, C. Hoarau, C. Baraduc and B. Dieny
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Modulation de fréquence et analyse bitonale sur des nano-oscillateurs à vortex magnétique

Martin, S., C. Thirion, C. Hoarau, C. Baraduc and B. Dieny
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Tunability versus deviation sensitivity in a non-linear vortex oscillator

Martin, S., C. Thirion, C. Hoarau, C. Baraduc and B. Dieny
Oral: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Effet du champ électrique sur le couple spin-orbite dans des multicouches Pt/Co/AIO_x

Marty, K., G. Gaudin, I.M. Miron, O. Boule, M. Drouard and S. Auffret
Poster: Journée Spintronique et Nanomagnétisme à Grenoble, Noyarey (France), Feb. 21 2013

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Marty, K., I.M. Miron, O. Boule, M. Drouard, A. Lopez, S. Auffret and G. Gaudin
Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Transport dépendant du spin et matériaux antiferromagnétiques

Merodio Cámara, P., A. Ghosh, U. Ebels, W.E. Bailey, C. Lemonias, M. Chshiev, H. Béa and V. Baltz

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Poster: European School on Magnetism, Cargèse (France), Feb. 25-Mar. 8 2013

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Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Thin and ultrathin cobalt films on nanoporous substrates: Magnetometry and position annihilation studies

Metaxas, P.J., P. Guagliardo, V. Baltz, C. Chang, M. Kostylev, S. Samarin, J.F. Williams, X. Sun, M. Lai, A. Keating, N. Oshima, R. Suzuki and A. Uedono

Poster: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Ferromagnetic resonance in nano-structured surfaces for microwave applications

Mikuszeit, N., B. Viala, J. Alarcon, J.-P. Michel, C. Dubarry, V. Brissoneau, U. Ebels, A. Marty, C. Gourgon, A. Ferchichi and N. Vukadinovic

Poster: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Spin-orbit torques in ferromagnetic thin films

Miron, I.M., K. Garello, E. Jué, G. Gaudin, P.-J. Zermatten, M.V. Costache, S. Auffret, S. Bandiera, B. Rodmacq, J. Vogel, S. Pizzini, A. Schuhl and P. Gambardella

Oral: Spin-Orbit Torque Workshop, Thuwal (Saudi Arabia), Feb. 23-28 2013

Spin torque-driven excitations in synthetic antiferromagnets

Montebianco, E., F. Garcia Sanchez, A.S. Jenkins, D. Gusakova, L.D. Buda-Prejbeanu, U. Ebels, M.-C. Cyrille, B. Dieny, A. Zeltser and J.A. Katine

Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Role of dipolar fields in spin torque-driven excitations of a synthetic ferrimagnet

Montebianco, E., F. Garcia Sanchez, A.S. Jenkins, D. Gusakova, M. Romera, K. Jaimes Merazzo, A. Zeltser, J.A. Katine, L.D. Buda-Prejbeanu, M.-C. Cyrille, B. Dieny and U. Ebels

Poster: Magnonics Conference, Varberg (Sweden), Aug. 4-8 2013

Spin torque-driven excitations in synthetic ferrimagnets

Montebianco, E., F. Garcia Sanchez, A.S. Jenkins, D. Gusakova, L.D. Buda-Prejbeanu, U. Ebels, M.-C. Cyrille, B. Dieny, A. Zelster and J.A. Katine
Poster: Journée Spintronique et Nanomagnétisme à Grenoble, Noyarey (France), Feb. 21 2013

Influence of the interlayer coupling on the spin torque-driven excitations in a STO

Montebianco, E., M. Romera, F. Garcia Sanchez, C. Dieudonné, D. Gusakova, L.D. Buda-Prejbeanu, M.-C. Cyrille and U. Ebels
Oral: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Renversement de l'aimantation en fonction de la taille de plots magnétiques avec faible anisotropie perpendiculaire

Nistor, L.E., W. Stefanovicz, J. Vogel, G. Gaudin, S. Auffret, B. Rodmacq and S. Pizzini
Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Highly asymmetric magnetic domain wall propagation due to coupling to a periodic pinning potential

Novak, R.L., P.J. Metaxas, J.-P. Jamet, R. Weil, J. Ferré, A. Mougin, S. Rohart, R.L. Stamps, P.-J. Zermatten, G. Gaudin, V. Baltz and B. Rodmacq
Poster: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Domain growth and dipolar bias in magnetic thin films coupled to a periodic pinning potential

Novak, R.L., P.J. Metaxas, S. Rohart, R. Weil, J.-P. Jamet, A. Mougin, J. Ferré, R.L. Stamps, P.-J. Zermatten, G. Gaudin, V. Baltz and B. Rodmacq
Oral: Joint European Magnetic Symposia, Rhodes (Greece), Aug. 25-30 2013

How to explain the induced perpendicular anisotropy from Pt thickness and annealing in Ta/Pt/Co/MgO

Ortega, L., H.M. Garad, F. Fettar, B. Rodmacq, S. Auffret and B. Dieny
Poster: Joint European Magnetic Symposia, Rhodes (Greece), Aug. 25-30 2013

Diffusive Rashba spin torque in ferromagnetic heterostructures

Pauyac, C.O., X.H. Wang, M. Chshiev and A. Manchon
Oral: Joint European Magnetic Symposia, Rhodes (Greece), Aug. 25-30 2013

Diffusive Rashba spin torque in ferromagnetic heterostructures

Pauyac, C.O., X.H. Wang, M. Chshiev and A. Manchon
Poster: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Non-volatile FPGAs based on spintronic devices

Prenat, G., O. Gonçalves, G. di Pendina and B. Dieny
Oral: Design Automation Conference, Austin (USA), Jun. 2-6 2013

Modulation bandwidth of spin transfer oscillators

Quinsat, M., A.S. Jenkins, F. Garcia Sanchez, C. Dieudonné, J.F. Sierra Garcia, J.A. Katine, A. Zeltser, B. Dieny, A. Slavin, V. Tiberkevich, M.-C. Cyrille and U. Ebels
Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Determination of the frequency agility of spin transfer oscillators

Quinsat, M., A.S. Jenkins, F. Garcia Sanchez, J.F. Sierra Garcia, C. Dieudonné, A. Zeltser, B. Dieny, J.A. Katine, M.-C. Cyrille and U. Ebels
Oral: 12th Joint MMM-Intermag Conference, Chicago (USA), Jan. 14-18 2013

Modulation bandwidth of spin transfer oscillators

Quinsat, M., A.S. Jenkins, F. Garcia Sanchez, C. Dieudonné, J.F. Sierra Garcia, M. Tortarolo and U. Ebels
Poster: Magnonics Conference, Varberg (Sweden), Aug. 4-8 2013

Dynamique d'une paroi de Dzyaloshinskii dans une piste magnétique

Rohart, S., O. Boulle, L.D. Buda-Prejbeanu, E. Jué and A. Thiaville
Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Field- and current-induced motion of Dzyaloshinskii domain walls

Rohart, S., A. Thiaville, J. Miltat, E. Jué, O. Boulle, V. Cros and A. Fert
Oral: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Hanle effect with in-plane magnetic fields in metallic lateral spin valves

Rojas Sanchez, J.C., P. Laczkowski, W. Savero Torres, M. Cubukcu, L. Vila, A. Marty, M. Jamet and J.-P. Attané
Poster: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Influence of Mn doping on the bimodal distribution of blocking temperature for multiferroic epitaxial $\text{BiFe}_{1-x}\text{Mn}_x\text{O}_3/\text{CoFeB}$ bilayers

Safeer, C.K., J. Allibe, C. Carretero, C. Deranlot, E. Jacquet, J.-F. Jacquot, M. Bibes, A. Barthélémy, B. Dieny, H. Béa and V. Baltz
Oral: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Characterization of MTJs for MRAM applications

San Emeterio Alvarez, L., B. Lacoste, L.E. Nistor, B. Rodmacq, C. Ducruet and R.C. Sousa
Poster: Journée Spintronique et Nanomagnétisme à Grenoble, Noyarey (France), Feb. 21 2013

Spin transfer torque switching in the bistable region with alternating polarity pulses

San Emeterio Alvarez, L., B. Lacoste, B. Rodmacq, C. Ducruet and R.C. Sousa
Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Spin transfer torque switching in the bistable region with alternating polarity pulses

San Emeterio Alvarez, L., B. Lacoste, B. Rodmacq, C. Ducruet and R.C. Sousa
Poster: Donostia International Conference on Nanoscaled Magnetism and Applications, San Sebastian (Spain), Sep. 9-13 2013

Field-current phase diagrams of in-plane STTRAM cells with low effective magnetization storage layers

San Emeterio Alvarez, L., B. Lacoste, B. Rodmacq, L.E. Nistor, M. Pakala, R.C. Sousa and B. Dieny
Poster: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Switchable spin-current source controlled by magnetic domain walls

Savero Torres, W., P. Laczkowski, V. Nguyen, J.C. Rojas Sanchez, C. Nguyen, L. Vila, A. Marty, C. Beigné, L. Notin, M. Jamet and J.-P. Attané
Oral: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

MRAM concepts for sub-nanosecond precessional switching and sub-20nm cell scaling

Sousa, R.C., S. Bandiera, M. Marins de Castro Souza, B. Lacoste, L. San Emeterio Alvarez, L.E. Nistor, S. Auffret, U. Ebels, C. Ducruet, I.L. Prejbeanu, L. Vila, B. Rodmacq and B. Dieny
Oral: International Semiconductor Conference Dresden-Grenoble, Dresden (Germany), Sep. 26-27 2013

MRAM with soft reference layer: In-stack combination of memory and logic functions

Stainer, Q., L. Lombard, K. Mackay, R.C. Sousa, I.L. Prejbeanu and B. Dieny
Oral: 5th IEEE International Memory Workshop, Monterey (USA), May 26-29 2013

Size dependence of magnetic switching in perpendicular pillars close to the spin reorientation transition

Stefanowicz, W., L.E. Nistor, S. Pizzini, W. Kuch, V.D. Nguyen, G. Gaudin, S. Auffret, B. Rodmacq and J. Vogel
Oral: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Magnetization dynamics induced by spin transfer effects: Self-consistent finite element approach

Sturma, M., D. Gusakova, F. Alouges and J.-C. Toussaint
Poster: Journée Spintronique et Nanomagnétisme à Grenoble, Noyarey (France), Feb. 21 2013

Simulation de la dynamique de l'aimantation soumise aux effets de transfert de spin en présence d'un fort courant inhomogène

Sturma, M., D. Gusakova, F. Alouges and J.-C. Toussaint
Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Magnetization dynamics induced by spin transfer effects: Self-consistent finite element approach

Sturma, M., J.-C. Toussaint, D. Gusakova and F. Alouges

Oral: 9th International Symposium on Hysteresis Modelling and Micromagnetics, Taormina (Italy), May 13-15 2013

Magnetization dynamics induced by spin transfer effects: Self-consistent finite element approach

Sturma, M., J.-C. Toussaint, D. Gusakova and F. Alouges

Poster: IEEE Summer School, Assisi (Italy), Jun. 9-14 2013

Quantitative magnetic imaging of ultrathin wires using a scanning NV-center microscope

Tetienne, J., T. Hingant, S. Rohart, A. Thiaville, L. Herrera Diez, K.L. Garcia Hernandez, J. Kim, D. Ravelosona, E. Jué, O. Boulle, I.M. Miron, G. Gaudin, J. Roch and V. Jacques

Poster: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

On the role of Dzyaloshinskii domain walls in ultrathin magnetic films

Thiaville, A., S. Rohart, E. Jué, V. Cros and A. Fert

Oral: Spin-Orbit Torque Workshop, Thuwal (Saudi Arabia), Feb. 23-28 2013

Etude micromagnétique 1D de la paroi de Dzyaloshinskii

Thiaville, A., S. Rohart, E. Jué, V. Cros and A. Fert

Poster: Colloque Louis Néel, Tours (France), Mar. 20-22 2013

Large blocking temperature in (Pt/Co)₃/IrMn/Co and (Pd/Co)₃/IrMn/Co trilayers with ultrathin IrMn layer

Vinai, G., J. Moritz, S. Bandiera, I.L. Prejbeanu and B. Dieny

Poster: Journée Spintronique et Nanomagnétisme à Grenoble, Noyarey (France), Feb. 21 2013

Exchange bias enhancement in [Pt(Pd)/Co]/IrMn/Co trilayers with ultrathin IrMn through Cu interlayer

Vinai, G., J. Moritz, S. Bandiera, I.L. Prejbeanu and B. Dieny

Oral: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Focussed Kerr measurements on patterned arrays of exchange-biased square dots

Vinai, G., J. Moritz, G. Gaudin, J. Vogel, I.L. Prejbeanu and B. Dieny

Oral: Joint European Magnetic Symposia, Rhodes (Greece), Aug. 25-30 2013

First-principles study of perpendicular magnetic anisotropy in Fe|MgO|Fe magnetic tunnel junctions

Yang, H.X., A. Hallal, B. Dieny and M. Chshiev

Poster: International French-US Workshop, San Diego (USA), Jul. 8-12 2013

Emergence of magnetism in graphene by means of magnetic-insulator proximity

Yang, H.X., A. Hallal, D. Terrade, X. Waintal, S. Roche and M. Chshiev

Oral: 58th International Conference on Magnetism and Magnetic Materials, Denver (USA), Nov. 4-8 2013

Modelling stochastic behaviors of spin transfer torque in magnetic tunnel junction for memory and logic electrical simulation

Zhang, Y., W.S. Zhao, T. Devolder, J.-O. Klein, G. Prenat, J.S. Kim, C. Chappert, B. Dieny and D. Ravelosona

Poster: 12th Joint MMM-Intermag Conference, Chicago (USA), Jan. 14-18 2013

2012

INVITED PRESENTATIONS

Barrier breakdown mechanisms in MgO-based magnetic tunnel junctions under pulsed conditions and correlation with low-frequency noise

Amara-Dababi, S., H. Béa, R.C. Sousa, C. Baraduc and B. Dieny
Spie Conference, Spintronics V, San Diego (USA), Aug. 12-16 2012

Ultimate downsize scalability of perpendicular STT MRAM thanks to thermal assistance

Bandiera, S., R.C. Sousa, M. Marins de Castro Souza, C. Ducruet, C. Portemont, S. Auffret, L. Vila, I.L. Prejbeanu and B. Dieny
Intermag Conference, Vancouver (Canada), May 7-11 2012

Sub-20nm scalability issues in MRAM

Dieny, B., R.C. Sousa, S. Bandiera, M. Marins de Castro Souza, S. Auffret, B. Rodmacq, L.E. Nistor, I.L. Prejbeanu, C. Ducruet, K. Mackay and J.-P. Nozières
Materials Research Society Spring Meeting, San Francisco (USA), Apr. 9-13 2012

STT, thermally-assisted MRAM and hybrid CMOS/MTJ electronics

Dieny, B.
4th International Memory Workshop, Milano (Italy), May 20-23 2012

De la dynamique de l'aimantation induite par courant polarisé en spin vers des oscillateurs micro-ondes

Ebels, U.
Journées Nationales en Nanosciences et en Nanotechnologies, Bordeaux (France), Nov. 7-9 2012

Fabrication and control of synthetic antiferromagnetic nanoparticles released in solution for biological applications

Joisten, H., P. Sabon, S. Leulmi, T. Dietsch, C. Iss, J. Faure-Vincent, S. Auffret and B. Dieny
Intermag Conference, Vancouver (Canada), May 7-11 2012

High speed MRAM using a perpendicular polarizer for spin transfer precessional switching

Marins de Castro Souza, M., R.C. Sousa, S. Bandiera, B. Lacoste, C. Ducruet, S. Auffret, I.L. Prejbeanu, U. Ebels, C. Portemont, L.D. Buda-Prejbeanu, B. Rodmacq and B. Dieny
International Conference on Superconductivity and Magnetism, Istanbul (Turkey), Apr. 29-May 4 2012

Sub-200ps writing in precessional STT RAM

Marins de Castro Souza, M., B. Lacoste, R.C. Sousa, T. Devolder, L.D. Buda-Prejbeanu, A. Medjoubi, G. Prenat, S. Auffret, U. Ebels, C. Ducruet, I.L. Prejbeanu, L. Vila, B. Rodmacq and B. Dieny

International Conference of the Asian Union of Magnetism Societies, Nara (Japan), Oct. 2-5 2012

Extended scability and functionalities of MRAM based on thermally-assisted writing

Prejbeanu, I.L., J. Alvarez-Hérault, E. Gapihan, L. Lombard, C. Ducruet, C. Portemont, K. Mackay, R.C. Sousa, S. Bandiera, M. Marins de Castro Souza, J.-P. Nozières and B. Dieny

European Materials Research Society Spring Meeting, Strasbourg (France), May 14-18 2012

Linewidth broadening in tunnel junction spin torque oscillators

Quinsat, M., J.F. Sierra Garcia, D. Gusakova, F. Garcia Sanchez, V. Tiberkevich, A. Slavin, U. Ebels, M.-C. Cyrille, L.D. Buda-Prejbeanu, B. Dieny and J.A. Katine

International Conference on Superconductivity and Magnetism, Istanbul (Turkey), Apr. 29-May 4 2012

Exchange bias with multiferroic BiFeO₃ epitaxial thin films

Safeer, C.K., M. Chamfrault, J. Allibe, C. Carretero, C. Deranlot, E. Jacquet, J.-F. Jacquot, M. Bibes, A. Barthélémy, B. Dieny, V. Baltz and H. Béa

Materials Research Society Fall Meeting, Boston (USA), Nov. 25-30 2012

ORAL AND POSTER PRESENTATIONS

Barrier breakdown mechanism in MgO-based magnetic tunnel junctions and correlation with low-frequency noise

Amara-Dababi, S., H. Béa, R.C. Sousa, C. Baraduc and B. Dieny

Oral: Intermag Conference, Vancouver (Canada), May 7-11 2012

Barrier breakdown mechanism in MgO-based magnetic tunnel junctions and correlation with low-frequency noise

Amara-Dababi, S., H. Béa, R.C. Sousa and B. Dieny

Oral: 4th IEEE International Memory Workshop, Milano (Italy), May 20-23 2012

Magnetization switching of a MgO-based ferromagnetic layer by in-plane current injection

Avci, C.O., K. Garello, I.M. Miron, G. Gaudin, S. Auffret, O. Boulle and P. Gambardella

Poster: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Coupling-based resistive open defects in TAS-MRAM architectures

Azevedo, J., A. Virazel, A. Bosio, L. Dilillo, P. Girard, A. Todri, G. Prenat, J. Alvarez-Hérault and K. Mackay

Poster: 17th IEEE European Test Symposium, Annecy (France), May 28-Jun. 1 2012

Impact of resistive open defects on the heat current of TAS-MRAM architectures

Azevedo, J., A. Virazel, A. Bosio, L. Dilillo, P. Girard, A. Todri, G. Prenat, J. Alvarez-Hérault and K. Mackay

Oral: 15th Conference on Design Automation and Test in Europe, Dresden (Germany), Mar. 12-16 2012

Tunable hysteresis loop shift in orthogonally coupled [Pt/Co]-NiFe ferromagnetic layers

Bollero, A., V. Baltz, L.D. Buda-Prejbeanu, B. Rodmacq, M. García Hernández, J. Camarero, R. Miranda and B. Dieny

Poster: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Perpendicular exchange spring FM/FM system based on [Pt/Co]/NiFe with isothermally-induced and tunable exchange bias

Bollero, A., V. Baltz, L.D. Buda-Prejbeanu, B. Rodmacq, M.A. Niño, J. Camarero, R. Miranda and B. Dieny

Oral: Materials Research Society Spring Meeting, San Francisco (USA), Apr. 9-13 2012

Engineering the magnitude and the sign of exchange bias for in-plane-CoFeB/perpendicular-SmCo₅ bilayer

Bollero, A., V. Neu, V. Baltz, C. Rodrigo, M. Seifert, R. Pérez del Real, M. Vasquez, L. Schultz, J. Camarero and R. Miranda

Oral: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Current-induced domain wall dynamics in the presence of Rashba spin-orbit coupling

Boulle, O., L.D. Buda-Prejbeanu, E. Jué, I.M. Miron and G. Gaudin

Oral: Intermag Conference, Vancouver (Canada), May 7-11 2012

Model of current-in-plane tunnelling in double magnetic tunnel junctions

Clement, P.-Y., C. Ducruet, C. Baraduc, M. Chshiev and B. Dieny

Oral: Intermag Conference, Vancouver (Canada), May 7-11 2012

Fabrication and magneto-transport properties of graphene-based lateral spin valves

Cubukcu, M., M.B. Martin, P. Laczkowski, C. Vergneaud, A. Marty, C. Beigné, L. Notin, J.-P. Attané, L. Vila, P. Seneor, M. Anane, C. Deranlot, S. Auffret, A. Fert and M. Jamet

Poster: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Spintronics

Dieny, B.

Oral: International Semiconductor Conference Dresden-Grenoble, Grenoble (France), Sep. 24-26 2012

Is it not time to introduce courses in magnetism and spin electronics in the education in microelectronics?

Dieny, B. and G. Prenat

Oral: 9th European Workshop on Microelectronics Education, Grenoble (France), May 9-11 2012

Anomalous Extraordinary Hall Effect as a function of temperature and magnetic field in Pt/Co/AlO_x

Fettar, F., H.M. Garad, F. Gay, S. Auffret, B. Rodmacq and B. Dieny

Oral: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Influence of fabrication defects on the magnetization dynamics of magnetic tunnel junctions

Firastrau, I., I.L. Prejbeanu, J.-P. Nozières and L.D. Buda-Prejbeanu

Poster: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Micromagnetic investigation of the current-induced magnetization oscillations for a perpendicular polarizer spintronic oscillator

Firastrau, I., L.D. Buda-Prejbeanu, U. Ebels, J.-C. Toussaint and B. Dieny

Oral: 7th International Conference on Advanced Materials, Brasov (Romania), Aug. 28-31 2012

Numerical study of spintronic-induced excitations in a synthetic antiferromagnet under perpendicular-to-plane spin-polarized electrons

Firastrau, I., L.D. Buda-Prejbeanu, A. Vaysset, B. Lacoste, U. Ebels and B. Dieny

Poster: 7th International Conference on Surfaces, Coatings and Nanostructured Materials, Praha (Czech Republic), Sep. 18-21 2012

Micromagnetic study of defects influence on the hysteresis loops of nanomagnets

Firastrau, I., I.L. Prejbeanu and L.D. Buda-Prejbeanu

Poster: International Workshop on Multi-Rate Processes and Hysteresis, Suceava (Romania), May 21-24 2012

Estimation of the amplitude-phase coupling parameter from the temperature dependence of the linewidth on spin transfer oscillators

Garcia Sanchez, F., J.F. Sierra Garcia, M. Quinsat, U. Ebels, A.S. Jenkins, D. Gusakova, L.D. Buda-Prejbeanu and B. Dieny

Oral: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Perpendicular switching of a single ferromagnetic layer induced by in-plane current injection

Garello, K., I.M. Miron, G. Gaudin, P.-J. Zermatten, M.V. Costache, S. Auffret, S. Bandiera, B. Rodmacq, A. Schuhl and P. Gambardella

Oral: [American Physical Society March Meeting](#), Boston (USA), Feb. 27-Mar. 2 2012

Penetration depth of transverse spin current in ultrathin ferromagnets and nonmagnets

Ghosh, A., S. Auffret, U. Ebels and W.E. Bailey

Poster: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Efficient current-induced domain wall dynamics in high anisotropy materials

Heinen, J., T. Schulz, C. Ulysse, B. Ocker, J. Wrona, O. Boulle, B. Koopmans, H. Swagten and M. Kläui

Oral: Intermag Conference, Vancouver (Canada), May 7-11 2012

Switching dynamics of Co nanodots with perpendicular anisotropy by in-plane current injection

Hrabec, A., S. Pizzini, V. Stefanovich, M. Bomfin, J. Vogel, I.M. Miron, G. Gaudin, O. Boulle, P. Gambardella, F. Sirotti, T.O. Montes and A. Locatelli

Oral: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Magnetic micro/nano-tweezers functionalized and dispersed in solution for biological and medical applications

Iss, C., H. Joisten, T. Dietsch, S. Leulmi, P. Sabon, Y. Hou-Broutin, L. Livache, J. Faure-Vincent, R. Calemczuk, C. Benoît, D. Peyrade, S. Auffret, E. Gautier and B. Dieny

Poster: Journées Nationales en Nanosciences et Nanotechnologies, Bordeaux (France), Nov. 7-9 2012

Full phase diagram of spin torque oscillators with perpendicular polarizer

Jenkins, A.S., J.F. Sierra Garcia, M. Quinsat, B. Rodmacq, B. Delaët, B. Dieny, M.-C. Cyrille and U. Ebels

Poster: IEEE International Conference on Microwave Magnetics, Kaiserslautern (Germany), Aug. 26-29 2012

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Poster: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Influence of perturbation on the out-of-plane precession of an in-plane magnetized free layer with a perpendicular polarizer

Lacoste, B., L.D. Buda-Prejbeanu, R.C. Sousa and B. Dieny

Poster: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Self-consistent calculation of spin-polarized transport and magnetization dynamics in synthetic antiferromagnetic free layers

Lee, S., K. Lee, D. Gusakova, L.D. Buda-Prejbeanu, U. Ebels and B. Dieny

Poster: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Effects of deposition induced and post-deposition thermally-activated intermixing on the exchange bias of $[Pt/Co]_{x3}/(Pt)/IrMn$ films

Letellier, F., L. Lechevallier, R. Lardé, J.-M. Le Breton, V. Baltz, B. Rodmacq, B. Dieny and J.-F. Jacquot

Oral: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Atomic diffusion in (Pt/Co)₃/IrMn multilayers

Letellier, F., A. Zarefy, J.-M. Le Breton, L. Lechevallier, R. Lardé, D. Blavette, V. Baltz, B. Rodmacq and B. Dieny

Oral: International Conference on Magnetism, Bexco, Busan (South Korea), Jul. 8-13 2012

Apoptose de cellules cancéreuses induite par vibrations magnéto-mécaniques de nanoparticules magnétiques

Leulmi, S., T. Dietsch, C. Iss, H. Joisten, P. Sabon, S. Sauvaigo, T. Douki, Y. Hou-Broutin, L. Livache and B. Dieny

Poster: 7^{ème} Journée Scientifique du CLARA, Lyon (France), Mar. 20-21 2012

Time-resolved measurements of precessional switching in a MRAM cell with a perpendicular polarizer under a hard axis magnetic field

Marins de Castro Souza, M., T. Devolder, B. Lacoste, R.C. Sousa, L.D. Buda-Prejbeanu, S. Auffret, U. Ebels, C. Ducruet, I.L. Prejbeanu, L. Vila, B. Rodmacq and B. Dieny

Oral: Intermag Conference, Vancouver (Canada), May 7-11 2012

Sub-nanosecond precessional switching in a MRAM cell with a perpendicular polarizer

Marins de Castro Souza, M., B. Lacoste, R.C. Sousa, T. Devolder, L.D. Buda-Prejbeanu, A. Chavent, A. Mejdoubi, S. Auffret, U. Ebels, C. Ducruet, I.L. Prejbeanu, L. Vila, B. Rodmacq and B. Dieny

Oral: 4th IEEE International Memory Workshop, Milano (Italy), May 20-23 2012

Parametric oscillator based on nonlinear vortex dynamics in low-resistance magnetic tunnel junctions

Martin, S., N. de Mestier, C. Thirion, C. Hoarau, Y. Conraux, C. Baraduc and B. Dieny

Oral and Poster: Magnetic Single Nano-Object Workshop & School, Les Houches (France), Feb. 5-10 2012

A compact model of precessional spin transfer switching for MTJ with a perpendicular polarizer

Mejdoubi, A., G. Prenat and B. Dieny

Oral: International Conference on Microelectronics, Nis (Serbia), May 13-16 2012

Non-destructive generation of nanoscale periodic pinning potentials for magnetic domain walls: A way to bias domain wall propagation

Metaxas, P.J., P.-J. Zermatten, R.L. Novak, J.-P. Jamet, R. Weil, J. Ferré, A. Mougin, S. Rohart, R.L. Stamps, V. Baltz, G. Gaudin and B. Rodmacq

Poster: [American Physical Society March Meeting](#), Boston (USA), Feb. 27-Mar. 2 2012

Spin torque-driven excitations in synthetic antiferromagnets

Montebianco, E., D. Gusakova, F. Garcia Sanchez, L.D. Buda-Prejbeanu, A.S. Jenkins, U. Ebels, M.-C. Cyrille and B. Dieny

Poster: International Conference on Spin Dynamics in Nanomagnets, Seoul (South Korea), Jul. 15-18 2012

Spin torque-driven excitations in synthetic antiferromagnets

Montebianco, E., D. Gusakova, F. Garcia Sanchez, L.D. Buda-Prejbeanu, A.S. Jenkins, U. Ebels, M.-C. Cyrille and B. Dieny
Poster: IEEE International Conference on Microwave Magnetics, Kaiserslautern (Germany), Aug. 26-29 2012

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Montebianco, E., D. Gusakova, F. Garcia Sanchez, L.D. Buda-Prejbeanu, A.S. Jenkins, U. Ebels, M.-C. Cyrille and B. Dieny
Oral: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Tomographic investigation of self-organized nanocolumns in Ge-Mn thin films

Mouton, I., R. Lardé, E. Talbot, C. Genevois, D. Blavette, V. Baltz, A. Barski, P. Bayle-Guillemaud and M. Jamet
Oral: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Direct observation of nearly mass-less domain walls in nanostripes with perpendicular magnetic anisotropy

Pizzini, S., J. Vogel, M. Bonfim, O. Boulle, E. Jué, N. Rougemaille, I.M. Miron, A. Hrabec, G. Gaudin, J.C. Cezar and F. Sirotti
Oral: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Hybrid CMOS/magnetic process design kit and application to the design of reliable and low-power non-volatile logic circuits

Prenat, G., B. Dieny, G. di Pendina and K. Torki
Oral: First Workshop on Manufacturable and Dependable Multicore Architectures at Nanoscale, Annecy (France), Jun. 1 2012

Linewidth of higher harmonics in spin torque oscillators

Quinsat, M., D. Gusakova, V. Tiberkevich, A. Slavin, J.F. Sierra Garcia, U. Ebels, M.-C. Cyrille, L.D. Buda-Prejbeanu and J.A. Katine
Oral: Intermag Conference, Vancouver (Canada), May 7-11 2012

Linewidth broadening in non-isochronous oscillators

Quinsat, M., V. Tiberkevich, J.F. Sierra Garcia, D. Gusakova, F. Garcia Sanchez, A. Slavin, U. Ebels, M.-C. Cyrille, L.D. Buda-Prejbeanu, B. Dieny, J.A. Katine and A. Zeltser
Oral: International Conference on Spin Dynamics in Nanomagnets, Seoul (South Korea), Jul. 15-18 2012

Linewidth broadening in non-isochronous oscillators

Quinsat, M., V. Tiberkevich, J.F. Sierra Garcia, D. Gusakova, F. Garcia Sanchez, A. Slavin, U. Ebels, M.-C. Cyrille, L.D. Buda-Prejbeanu, B. Dieny, J.A. Katine and A. Zeltser
Oral: Nordic Spin 2012 Conference, Gothenburg (Sweden), Apr. 22-25 2012

Anisotropic bimodal distribution of blocking temperature with multiferroic BiFeO₃ epitaxial thin films

Safeer, C.K., M. Chamfrault, J. Allibe, C. Carretero, C. Deranlot, E. Jacquet, J.-F. Jacquot, M. Bibes, A. Barthélémy, B. Dieny, H. Béa and V. Baltz
Oral: European Materials Research Society Spring Meeting, Strasbourg (France), May 14-18 2012

Finite element-based self-consistent treatment of magnetization dynamics caused by spin transfer effects

Sturma, M., D. Gusakova, F. Alouges and J.-C. Toussaint
Poster: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Micromagnetic analysis of frequency discontinuities in planar spin transfer oscillators

Vaysset, A., E. Kritsikis, J.-C. Toussaint, L.D. Buda-Prejbeanu, D. Gusakova, U. Ebels and B. Dieny
Oral: Intermag Conference, Vancouver (Canada), May 7-11 2012

Self-sustained oscillations in a nanopillar with a synthetic antiferromagnetic free layer and perpendicular polarizer

Vaysset, A., B. Lacoste, L.D. Buda-Prejbeanu, U. Ebels, I. Firastrau, R.C. Sousa and B. Dieny
Poster: Joint European Magnetic Symposia, Parma (Italy), Sep. 9-14 2012

Magnetic properties of exchange-biased IrMn/Co patterned arrays

Vinai, G., J. Moritz, G. Gaudin, J. Vogel, M. Bonfim, I.L. Prejbeanu, K. Mackay and B. Dieny
Oral: Intermag Conference, Vancouver (Canada), May 7-11 2012

Direct observation of nearly mass-less domain walls in nanostripes with perpendicular magnetic anisotropy

Vogel, J., S. Pizzini, M. Bonfim, O. Boulle, E. Jué, N. Rougemaille, I.M. Miron, A. Hrabec, S. Auffret, B. Rodmacq, J.C. Cezar, F. Sirotti and G. Gaudin
Oral: Intermag Conference, Vancouver (Canada), May 7-11 2012

Ultrathin cobalt films contacted to graphene

Vo-Van, C., A. Kimouche, H.X. Yang, Z. Kassir-Bodon, J. Vogel, S. Pizzini, P. Bayle-Guillemaud, M. Chshiev, L. Ranno, A.T. N'Diaye, N. Bendiab, A.K. Schmid, N. Rougemaille, O. Fruchart and J. Coraux
Oral: Intermag Conference, Vancouver (Canada), May 7-11 2012

2011

INVITED PRESENTATIONS

Synchronization of high-power vortex oscillators at multiple of the fundamental frequency

Baraduc, C., S. Martin, C. Thirion, Y. Liu, M. Dovek and B. Dieny
SPIE Optics+Photonics Conference, San Diego (USA), Aug. 21-25 2011

Mechanisms of perpendicular magnetic anisotropy at Co(Fe)|MgO interfaces

Chshiev, M.
Moscow International Symposium on Magnetism, Moscow (Russia), Aug. 21-25 2011

Spin transport phenomena in nanostructures with non-collinear magnetic moments

Chshiev, M.
58th AVS Annual International Symposium and Exhibition, Nashville (USA), Oct. 30-Nov. 4 2011

Extended scalability and functionalities of MRAM based on thermally-assisted writing

Dieny, B., R.C. Sousa, S. Bandiera, M. Marins de Castro Souza, S. Auffret, B. Rodmacq, J.-P. Nozières, J. Alvarez-Hérault, E. Gapihan, I.L. Prejbeanu, C. Ducret, C. Portemont, K. Mackay and B. Cambou
International Electron Devices Meeting, Washington (USA), Dec. 5-7 2011

Spintronic phenomena and devices

Dieny, B.
Modern Trends in Magnetism, Grenoble (France), Sep. 9 2011

Spin transfer RF nano-oscillators for wireless communications and microwave-assisted magnetic recording

Dieny, B., U. Ebels and M.-C. Cyrille
Imagine Nano Conference, Bilbao (Spain), Apr. 11-14 2011

Sub-20nm scalability issues in MRAM

Dieny, B., R.C. Sousa, S. Bandiera, J. Alvarez-Hérault, E. Gapihan, C. Papisoi, M. Marins de Castro Souza, S. Auffret, B. Rodmacq, L.D. Buda-Prejbeanu, C. Ducret, C. Portemont, K. Mackay and J.-P. Nozières
Seminar, Samsung Electronics, Hanyang (South Korea), May 20 2011

Prospects and challenges of perpendicular MTJs with interfacial perpendicular anisotropy: Towards sub-20nm STT MRAM

Dieny, B., R.C. Sousa, S. Bandiera, L.D. Buda-Prejbeanu and J.-P. Nozières
Samsung Semiconductor Future Technology Forum, Seoul (South Korea), Sep. 22-23 2011

Non-volatile MRAM concepts for scalable and low-power logic-in-memory circuits based on hybrid CMOS/magnetic technology

Dieny, B., R.C. Sousa, S. Bandiera, M. Marins de Castro Souza, B. Rodmacq, J.-P. Nozières, I.L. Prejbeanu and K. Mackay
Imagine Nano Conference, Bilbao (Spain), Apr. 11-14 2011

Non-volatile MRAM concepts for scalable logic-in-memory circuits based on hybrid CMOS/magnetic technology

Dieny, B., R.C. Sousa, S. Bandiera, M. Marins de Castro Souza, B. Rodmacq, J.-P. Nozières, I.L. Prejbeanu and K. Mackay
Frontier of Spintronics/Nanoelectronics Workshop, Hsinchu (Taiwan), Apr. 24 2011

Les oscillateurs à transfert de spin: Etat de l'art, développement et applications potentielles

Ebels, U.
Journée Nationale Micro-Ondes, Brest (France), May 18-20 2011

Precessional dynamics driven by field or current

Ebels, U.
European School on Magnetism, Targoviste (Romania), Aug. 22-Sep. 2 2011

Rashba spin-orbit torques in ferromagnetic thin films

Gaudin, G., I.M. Miron, T.A. Moore, H. Szabolcs, K. Garello, P.-J. Zermatten, M.V. Costache, S. Auffret, S. Bandiera, B. Rodmacq, L.D. Buda-Prejbeanu, A. Schuhl, S. Pizzini, J. Vogel, M. Bonfim and P. Gambardella
5th International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi (Romania), Sep. 5-7 2011

Rashba spin-orbit torques in ferromagnetic thin films

Gaudin, G., I.M. Miron, T.A. Moore, H. Szabolcs, S. Auffret, B. Rodmacq, L.D. Buda-Prejbeanu, A. Schuhl, S. Pizzini, J. Vogel, M. Bonfim and P. Gambardella
19th International Symposium on Nanostructures: Physics and Technology, Ekaterinbourg (Russia), Jun. 20-25 2011

Rashba spin-orbit torques in ferromagnetic thin films

Gaudin, G., I.M. Miron, T.A. Moore, H. Szabolcs, S. Auffret, B. Rodmacq, L.D. Buda-Prejbeanu, A. Schuhl, S. Pizzini, J. Vogel, M. Bonfim and P. Gambardella
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Experimental comparison of spin pumping parameters at polycrystalline FM/NM interfaces

Ghosh, A., U. Ebels, S. Auffret and W.E. Bailey
56th International Conference on Magnetism and Magnetic Materials, Scottsdale (USA), Oct. 30-Nov. 3 2011

Spin injection in silicon and germanium

Jamet, M., A. Jain, L. Grenet, A. Barski, P. Noé, S. Auffret, P. Warin, J.-M. Hartmann, A. Brenac, E. Augendre, V. Baltz, P. Gentile and L. Vila
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Rashba spin-orbit torques in ferromagnetic thin films

Miron, I.M.

International Workshop on Spin Currents, Sendai (Japan), Jul. 25-29 2011

Spin-orbit torques in ferromagnetic thin films

Miron, I.M., K. Garello, G. Gaudin, P.-J. Zermatten, M.V. Costache, S. Auffret, S. Bandiera, B. Rodmacq, A. Schuhl and P. Gambardella

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Controlling magnetic vortices using exchange bias

Noguès, J., G. Salazar Álvarez, J. Kavich, M. Tanase, A. Mugarza, S. Stepanow, V. Baltz, A. Weber, L.J. Heyderman, A.K. Petford-Long, O. Heinonen, M.D. Baró, B. Dieny, K.S. Buchanan, A. Hoffmann, P. Gambardella and J. Sort

International Symposium on Spin Waves, Saint-Petersburg (Russia), Jun. 5-11 2011

Recent progress and emerging technology of spintronics device for VLSI

Nozières, J.-P.

Spintronics Workshop on LSI, Kyoto (Japan), Jun. 13 2011

Spin-based memories (spin transfer torque DRAM)

Nozières, J.-P.

Korean International Summer School on Nanoelectronics, Daegu (South Korea), Apr. 26-29 2011

From promises to products: Spin transfer torque and thermally-assisted MRAM

Nozières, J.-P.

Leading-edge Embedded NVM Workshop, Gardanne (France), Nov. 17-18 2011

Hybrid CMOS/Magnetic process design kit and application to the design of high-performances non-volatile logic circuits

Prenat, G., G. di Pendina, K. Torki, B. Dieny and J.-P. Nozières

International [Conference on Computer-Aided Design](#), San Jose (USA), Nov. 7-10 2011

Analysis of non-linear parameters of spin torque-driven excitations

Quinsat, M., J.F. Sierra Garcia, D. Gusakova, U. Ebels, M.-C. Cyrille, L.D. Buda-Prejbeanu, E. Montebancho, B. Dieny, V. Tiberkevich, A. Slavin, J.A. Katine and A. Zeltser

2nd International Workshop on Magnonics: From Fundamentals to Applications, Recife (Brazil), Aug. 7-10 2011

Scalable thermally-assisted MRAM

Sousa, R.C., C. Pappas, J. Alvarez-Hérault, E. Gapihan, S. Bandiera, M. Marins de Castro Souza, S. Auffret, B. Rodmacq, L.D. Buda-Prejbeanu, I.L. Prejbeanu, C. Ducruet, C. Portemont, Y. Conraux, K. Mackay, J.-P. Nozières and B. Dieny

Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

ORAL AND POSTER PRESENTATIONS

Duty cycle effect on barrier breakdown in MgO magnetic tunnel junctions

Amara-Dababi, S., R.C. Sousa, J. Alvarez-Hérault, L. Lombard, H. Béa, I.L. Prejbeanu, K. Mackay and B. Dieny

Oral: Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

Duty cycle effect on barrier breakdown in MgO magnetic tunnel junctions

Amara-Dababi, S., R.C. Sousa, J. Alvarez-Hérault, L. Lombard, H. Béa, I.L. Prejbeanu, K. Mackay and B. Dieny

Poster: Imagine Nano Conference, Bilbao (Spain), Apr. 11-14 2011

Charge trapping-detrapping mechanism of barrier breakdown in MgO magnetic tunnel junctions

Amara-Dababi, S., R.C. Sousa, M. Chshiev, H. Béa, B. Dieny, J. Alvarez-Hérault, L. Lombard, I.L. Prejbeanu and K. Mackay

Poster: 17th Conference on Insulating Films on Semiconductors, Grenoble (France), Jun. 21-24 2011

Charge trapping-detrapping mechanism of barrier breakdown in MgO magnetic tunnel junctions

Amara-Dababi, S., R.C. Sousa, M. Chshiev, H. Béa, B. Dieny, J. Alvarez-Hérault and K. Mackay

Oral: Journées Nationales du Réseau Doctoral en Micro-nanoélectronique, Cachan (France), May 23-25 2011

Etude du claquage de barrière MgO de jonctions tunnel magnétiques dû au piégeage/dépiégeage de charges dans la barrière

Amara-Dababi, S., R.C. Sousa, H. Béa, J. Alvarez-Hérault, K. Mackay and B. Dieny

Poster: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Fabrication d'un magnétomètre 3D intégré en configuration vanne de spin

Aurino, M., S. Auffret, P. Sabon, O. Boulle, G. Gaudin, C. Baraduc and A. Schuhl

Poster: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Analysis of resistive-open defects in TAS-MRAM arrays

Azevedo, J., A. Virazel, A. Bosio, L. Dilillo, P. Girard, A. Todri, G. Prenat and K. Mackay

Oral: International Test Conference, Anaheim (USA), Sep. 18-23 2011

Bimodal distribution of blocking temperatures in exchange-biased Co/IrMn bilayers

Baltz, V., S. Auffret, G. Gaudin, G. Vinai, J. Moritz, B. Rodmacq, B. Dieny, F. Letellier, A. Zarefy, R. Lardé and L. Lechevallier

Oral: Moscow International Symposium on Magnetism, Moscow (Russia), Aug. 21-25 2011

Cell-to-cell distribution of the exchange bias properties of MRAMs: Role of interfacial spin glass-like areas

Baltz, V., G. Gaudin, B. Rodmacq, S. Auffret and B. Dieny
Oral: Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

Thermally-assisted field writing in magnetic tunnel junctions with perpendicular anisotropy

Bandiera, S., R.C. Sousa, M. Marins de Castro Souza, C. Ducruet, C. Portemont, L. Vila, S. Auffret, I.L. Prejbeanu and B. Dieny
Oral: Moscow International Symposium on Magnetism, Moscow (Russia), Aug. 21-25 2011

Écriture assistée thermiquement de jonctions tunnel magnétiques à aimantation perpendiculaire pour cellules MRAM

Bandiera, S., R.C. Sousa, M. Marins de Castro Souza, C. Ducruet, C. Portemont, L. Vila, S. Auffret, I.L. Prejbeanu and B. Dieny
Oral: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Thermally-assisted writing in magnetic tunnel junctions with perpendicular anisotropy

Bandiera, S., R.C. Sousa, M. Marins de Castro Souza, C. Ducruet, C. Portemont, L. Vila, S. Auffret, I.L. Prejbeanu and B. Dieny
Oral: 56th International Conference on Magnetism and Magnetic Materials, Scottsdale (USA), Oct. 30-Nov. 3 2011

Calculs ab-initio du transport électronique dans les barrières de SrTiO₃

Belhadji, B., H.X. Yang, J.P. Velev and M. Chshiev
Poster: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Tuning the isothermally-induced exchange bias in perpendicularly-coupled ferromagnetic [Pt/Co]/NiFe multilayers

Bollero, A., V. Baltz, L.D. Buda-Prejbeanu, P. Perna, J. Sort, J. Nogués, B. Rodmacq, J. Camarero, R. Miranda and B. Dieny
Oral: 56th International Conference on Magnetism and Magnetic Materials, Scottsdale (USA), Oct. 30-Nov. 3 2011

Quantifying and imaging magnetization reversal of buried interfaces by soft X-ray spectroscopy and holography

Camarero, J., E. Jiménez, J. Vogel, C. Tieg, P. Perna, A. Bollero, F. Yakhou-Harris, C. Arm, E. Gautier, S. Auffret, B. Delaup, G. Gaudin, B. Rodmacq, B. Dieny and R. Miranda
Oral: Imagine Nano Conference, Bilbao (Spain), Apr. 11-14 2011

Nature of perpendicular magnetic anisotropy at Fe|MgO and Co|MgO interfaces from first-principles

Chshiev, M.
Oral: Recent Trends in Nanomagnetism, Spintronics and their Applications, Ordizia (Spain), Jun. 1-4 2011

Fast propagation of weakly pinned domain walls and current-assisted magnetization reversal in He⁺-irradiated Pt/Co/Pt nanotracks

Cormier, M., A. Mougin, J. Ferré, J.-P. Jamet, R. Weil, J. Fassbender, V. Baltz and B. Rodmacq

Poster: Magnetics and Optics Research International Symposium for New Storage Technology, Nijmegen (The Netherlands), Jun. 21-24 2011

Self-polarization phenomenon and control of dispersion of synthetic antiferromagnetic nanoparticules for biological applications

Courcier, T., P. Balint, H. Joisten, P. Sabon, S. Auffret, J. Faure-Vincent and B. Dieny

Poster: NanoBio Europe, Cork (Ireland), Jun. 20-23 2011

Ultra compact non-volatile flip-flop for low-power digital circuits based on hybrid CMOS/Magnetic technology

Di Pendina, G., G. Prenat, K. Torki, Y. Guillemenet and L. Torres

Oral: International Workshop on Power and Timing Modeling, Optimization and Simulation, Madrid (Spain), Sep. 26-29 2011

A hybrid magnetic/CMOS process design kit for the design of low-power non-volatile logic circuits

Di Pendina, G., G. Prenat, B. Dieny and K. Torki

Oral: 56th International Conference on Magnetism and Magnetic Materials, Scottsdale (USA), Oct. 30-Nov. 3 2011

Anomalous Extraordinary Hall effect as a function of the temperature and the magnetic field in Pt/Co/AIO_x

Fettar, F., H.M. Garad, J. Marcus, F. Gay, B. Rodmacq and B. Dieny

Oral: Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

Micromagnetic simulations on the magnetization dynamics of a SAF free layer oscillator driven by perpendicular spin-polarized current

Firastrau, I., M.I. Pop, M.S. Adam, U. Ebels and L.D. Buda-Prejbeanu

Oral: 6th International Conference on Surfaces, Coatings and Nanostructured Materials, Krakow (Poland), Oct. 15-21 2011

Synthetic antiferromagnet magnetization dynamics driven by out-of-plane spin-polarized current

Firastrau, I., M.I. Pop, M.S. Adam, U. Ebels and L.D. Buda-Prejbeanu

Oral: Recent Trends in Nanomagnetism, Spintronics and their Applications, Ordizia (Spain), Jun. 1-4 2011

Nanofabrication of MgO-based spin torque oscillators

Garcia Hernandez, K.L., J.F. Sierra Garcia, M. Quinsat, E. Montebancho, L. Vila, E. Hassen, P. Lima, A.S. Jenkins, M.-C. Cyrille and U. Ebels

Poster: Spin Master Voice Workshop, Villiers-le-Mahieu (France), Dec. 14-16 2011

Synthetic antiferromagnet magnetization dynamics induced by spin transfer torque

Geranton, G., D. Gusakova, U. Ebels, B. Dieny and L.D. Buda-Prejbeanu

Poster: Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

Universality in the onset of spin current absorption in ultrathin metals measured through ferromagnetic resonance

Ghosh, A., S. Auffret, U. Ebels and W.E. Bailey

Oral: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Demonstration of “spin pumping” using different (Pt or FM) spin sinks

Ghosh, A., J.F. Sierra Garcia, S. Auffret, U. Ebels and W.E. Bailey

Oral: Recent Trends in Nanomagnetism, Spintronics and their Applications, Ordizia (Spain), Jun. 1-4 2011

Linewidth reduction of spin transfer-driven excitations due to mode coupling

Gusakova, D., M. Quinsat, J.F. Sierra Garcia, V. Tiberkevich, U. Ebels, B. Dieny, L.D. Buda-Prejbeanu, B. Delaët and M.-C. Cyrille

Poster: Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

Linewidth reduction in a spin torque nano-oscillator due to dynamical coupling between magnetic layers

Gusakova, D., I. Firastrau, M. Quinsat, J.F. Sierra Garcia, V. Tiberkevich, A. Slavin, U. Ebels, B. Dieny, L.D. Buda-Prejbeanu and M.-C. Cyrille

Poster: Spin Master Voice Workshop, Villiers-le-Mahieu (France), Dec. 14-16 2011

Linewidth reduction of spin transfer-driven excitations due to mode coupling

Gusakova, D., M. Quinsat, J.F. Sierra Garcia, U. Ebels, B. Dieny, L.D. Buda-Prejbeanu, M.-C. Cyrille, V. Tiberkevich and A. Slavin

Poster: Moscow International Symposium on Magnetism, Moscow (Russia), Aug. 21-25 2011

Linewidth reduction in a spin torque nano-oscillator caused by non-conservative current-induced coupling between magnetic layers

Gusakova, D., M. Quinsat, J.F. Sierra Garcia, U. Ebels, B. Dieny, L.D. Buda-Prejbeanu, M.-C. Cyrille, V. Tiberkevich and A. Slavin

Poster: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Thermally-activated domain wall depinning: Extraction of the non-adiabaticity factor β

Heinen, J., O. Boulle, G. Malinowski, M. Kläui, H. Swagten, B. Koopmans, C. Ulysse and G. Faini

Oral: Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

Electrical spin injection in germanium

Jain, A., L. Lamis, C. Vergnaud, A. Barski, P. Gentile, A. Brenac, L. Notin, S. Auffret, V. Baltz, J.-C. Le Breton, J. Peiro, C. Deranlot, H. Jaffrès, J.-M. George and M. Jamet

Poster: 6th International School and Conference on Spintronics and Quantum Information Technology, Matsue (Japan), Aug. 1-5 2011

Towards tailoring magnetic properties in exchange-biased FM/AFM systems

Jiménez, E., J. Camarero, N. Mikuszeit, P. Perna, F.J. Teran, A. Bollero, J. Sort, J. Noguès, J.M. García Martín, A. Hoffmann, B. Dieny and R. Miranda

Oral: 56th International Conference on Magnetism and Magnetic Materials, Scottsdale (USA), Oct. 30-Nov. 3 2011

Self-polarization phenomenon and control of dispersion of synthetic antiferromagnetic nanoparticules for biological applications

Joisten, H., T. Courcier, P. Balint, P. Sabon, J. Faure-Vincent, S. Auffret and B. Dieny

Oral: Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

Self-polarization phenomenon and control of dispersion of synthetic antiferromagnetic nanoparticules for biological applications

Joisten, H., T. Courcier, P. Balint, P. Sabon, J. Faure-Vincent, S. Auffret and B. Dieny

Poster: Imagine Nano Conference "NanoBio&Med 2011", Bilbao (Spain), Apr. 11-14 2011

Influence d'un champ magnétique transverse sur la propagation de parois de domaines dans des structures à asymétrie d'inversion

Jué, E., A. Hrabec, O. Boulle, I.M. Miron, S. Auffret, B. Rodmacq, S. Bandiera, S. Pizzini, J. Vogel, A. Schuhl and G. Gaudin

Oral: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Influence of a transverse magnetic field on current-induced domain walls motion in Pt/Co/AIO_x trilayers

Jué, E., A. Hrabec, O. Boulle, I.M. Miron, S. Auffret, B. Rodmacq, S. Bandiera, S. Pizzini, J. Vogel, A. Schuhl and G. Gaudin

Oral: 56th International Conference on Magnetism and Magnetic Materials, Scottsdale (USA), Oct. 30-Nov. 3 2011

Second-order integration of the LLG equation for FEM spintronic modelling

Kritsikis, E., A. Vaysset, L.D. Buda-Prejbeanu, F. Alouges and J.-C. Toussaint

Oral: Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

Model of spin transfer-induced precessional switching in in-plane magnetized magnetic tunnel junctions with perpendicular polarizer

Lacoste, B., M. Marins de Castro Souza, R.C. Sousa, L.D. Buda-Prejbeanu and B. Dieny

Oral: 56th International Conference on Magnetism and Magnetic Materials, Scottsdale (USA), Oct. 30-Nov. 3 2011

Retournement par transfert de spin d'une cellule mémoire avec polariseur

Lacoste, B., R.C. Sousa, S. Bandiera, M. Marins de Castro Souza, L.D. Buda-Prejbeanu and B. Dieny

Poster: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Spin transfer effects in FePt nanowires with narrow magnetic domain walls

Laczkowski, P., V. Nguyen, J.-P. Attané, C. Burrowes, A.P. Mihai, D. Ravelosona, J. Kim, A. Marty, F. Garcia Sanchez, L.D. Buda-Prejbeanu and L. Vila
Poster: Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

Atomic scale characterization of thin films and multilayers by atom probe tomography

Lardé, R., A. Zarefy, L. Lechevallier, J. Juraszek, J.-M. Le Breton, V. Baltz, B. Rodmacq and B. Dieny
Oral: European Materials Research Society Spring Meeting, Nice (France), May 9-13 2011

Voltage-controlled magnetic anisotropy in soft magnetostrictive ferromagnetic thin films

Lebedev, G., B. Viala, J. Delamare and O. Cugat
Oral: Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

Caractérisation à l'échelle atomique de multicouches à anisotropie d'échange perpendiculaire par sonde atomique tomographique

Letellier, F., L. Lechevallier, R. Lardé, J. Juraszek, J.-M. Le Breton, V. Baltz, B. Rodmacq and B. Dieny
Poster: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Ultrafast precessional spin transfer switching in MRAM cells with a perpendicular polarizer

Marins de Castro Souza, M., R.C. Sousa, S. Bandiera, C. Ducruet, S. Auffret, C. Pappas, I.L. Prejbeanu, U. Ebels, C. Portemont, B. Rodmacq, L. Vila and B. Dieny
Oral: 56th International Conference on Magnetism and Magnetic Materials, Scottsdale (USA), Oct. 30-Nov. 3 2011

Integration of a perpendicular polarizer in an in-plane magnetic tunnel junction

Marins de Castro Souza, M., R.C. Sousa, S. Bandiera, C. Ducruet, S. Auffret, C. Pappas, I.L. Prejbeanu, U. Ebels, C. Portemont, L. Vila, B. Rodmacq and B. Dieny
Oral: Moscow International Symposium on Magnetism, Moscow (Russia), Aug. 21-25 2011

Parametric oscillator based on non-linear vortex dynamics in low resistance magnetic tunnel junctions

Martin, S., N. de Mestier, C. Thirion, C. Hoarau, Y. Conraux, C. Baraduc and B. Dieny
Oral: Spin Master Voice Workshop, Villiers-le-Mahieu (France), Dec. 14-16 2011

Oscillateur basé sur la dynamique de vortex magnétique dans des jonctions tunnel à basse résistance

Martin, S., N. de Mestier, C. Thirion, C. Hoarau, Y. Conraux, C. Baraduc and B. Dieny
Poster: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Parametric oscillator based on non-linear vortex dynamics in low resistance magnetic tunnel junctions

Martin, S., N. de Mestier, C. Thirion, C. Hoarau, Y. Conraux, C. Baraduc and B. Dieny

Oral: 56th International Conference on Magnetism and Magnetic Materials, Scottsdale (USA), Oct. 30-Nov. 3 2011

Parametric oscillator based on non-linear vortex dynamics in low resistance magnetic tunnel junctions

Martin, S., N. de Mestier, C. Thirion, C. Hoarau, Y. Conraux, C. Baraduc and B. Dieny

Poster: European School on Magnetism, Targoviste (Romania), Aug. 22-Sep. 2 2011

Dynamique d'aimantation dans un antiferromagnétique synthétique (SAF)

Montebianco, E., D. Gusakova, L.D. Buda-Prejbeanu, U. Ebels and B. Dieny

Poster: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Caractérisation par tomographie atomique de nano-colonnes auto-organisées dans des semiconducteurs magnétiques Ge-Mn

Mouton, I., R. Lardé, E. Talbot, A. Jain, A. Barski, V. Baltz, P. Bayle-Guillemaud, J. Cibert and M. Jamet

Oral: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Low effective demagnetizing field in magnetic tunnel junctions

Nistor, L.E., B. Rodmacq, S. Auffret and B. Dieny

Oral: Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

Domain growth and dipolar bias in magnetic thin films strongly coupled to a periodic pinning potential

Novak, R.L., P.J. Metaxas, S. Rohart, R. Weil, J.-P. Jamet, A. Mougín, J. Ferré, R.L. Stamps, V. Baltz and B. Rodmacq

Poster: 56th International Conference on Magnetism and Magnetic Materials, Scottsdale (USA), Oct. 30-Nov. 3 2011

Synchronization of magnetic tunnel junction nano-oscillators to an RF current

Quinsat, M., J.F. Sierra Garcia, I. Firastrau, V. Tiberkevich, A. Slavin, M. Zarudniev, U. Ebels, M.-C. Cyrille, J.-P. Michel, L.D. Buda-Prejbeanu, B. Dieny, J.A. Katine, D. Mauri and A. Zeltser

Oral: Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

Linewidth of higher harmonics in spin torque oscillators

Quinsat, M., D. Gusakova, J.F. Sierra Garcia, V. Tiberkevich, A. Slavin, U. Ebels, M.-C. Cyrille, L.D. Buda-Prejbeanu and J.A. Katine

Poster: Spin Master Voice Workshop, Villiers-le-Mahieu (France), Dec. 14-16 2011

Injection locking of magnetic tunnel junction oscillator to an RF current

Quinsat, M., J.F. Sierra Garcia, I. Firastrau, V. Tiberkevich, A. Slavin, M. Zarudniev, U. Ebels, M.-C. Cyrille, J.-P. Michel, L.D. Buda-Prejbeanu, B. Dieny, J.A. Katine, D. Mauri and A. Zeltser

Oral: Recent Trends in Nanomagnetism, Spintronics and their Applications, Ordizia (Spain), Jun. 1-4 2011

Non-linear parameters in magnetic tunnel junction spin torque oscillator

Quinsat, M., J.F. Sierra Garcia, D. Gusakova, U. Ebels, M.-C. Cyrille, J.-P. Michel, L.D. Buda-Prejbeanu, B. Dieny, J.A. Katine, D. Mauri and A. Zeltser

Poster: Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

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Quinsat, M., J.F. Sierra Garcia, D. Gusakova, V. Tiberkevich, A. Slavin, U. Ebels, M.-C. Cyrille, L.D. Buda-Prejbeanu and J.A. Katine

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Synchronisation d'un oscillateur basé sur une jonction tunnel magnétique

Quinsat, M., J.F. Sierra Garcia, J.-P. Michel, L.D. Buda-Prejbeanu, D. Gusakova, I. Firastrau, A. Slavin, U. Ebels, M.-C. Cyrille and J.A. Katine

Poster: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Distribution of blocking temperatures in exchange-biased multiferroic-based heterostructures

Safeer, C.K., J. Allibe, C. Carretero, C. Deranlot, E. Jacquet, M. Bibes, A. Barthélémy, H. Béa and V. Baltz

Poster: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Distribution of blocking temperatures in exchange-biased multiferroic-based heterostructures

Safeer, C.K., H. Béa, V. Baltz, B. Dieny, J. Allibe, C. Carretero, C. Deranlot, E. Jacquet, M. Bibes and A. Barthélémy

Oral: GDR Multiferroiques, Gif-sur-Yvette (France), May 17-18 2011

Anisotropic bimodal distribution of blocking temperatures in exchange-biased multiferroic-based systems

Safeer, C.K., M. Chamfrault, B. Dieny, J. Allibe, C. Carretero, C. Deranlot, E. Jacquet, M. Bibes, A. Barthélémy, H. Béa and V. Baltz

Oral: 56th International Conference on Magnetism and Magnetic Materials, Scottsdale (USA), Oct. 30-Nov. 3 2011

Temperature dependence of the emission linewidth in MgO-based spin torque oscillators

Sierra Garcia, J.F., M. Quinsat, U. Ebels, I. Joumard, A.S. Jenkins, M.-C. Cyrille, B. Dieny and J.A. Katine

Oral: Spin Master Voice Workshop, Villiers-le-Mahieu (France), Dec. 14-16 2011

Temperature dependence of in-plane magnetic excitations in MgO-based spin torque oscillators

Sierra Garcia, J.F., M. Quinsat, I. Joumard, U. Ebels, M.-C. Cyrille, B. Dieny and J.A. Katine

Oral: 56th International Conference on Magnetism and Magnetic Materials, Scottsdale (USA), Oct. 30-Nov. 3 2011

Temperature dependence of in-plane magnetic excitations in magnetic tunnel junction nanopillars

Sierra Garcia, J.F., M. Quinsat, I. Joumard, U. Ebels, M.-C. Cyrille, L.D. Buda-Prejbeanu, B. Dieny, J.A. Katine and A. Zelster

Poster: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Angular and temperature dependence of in-plane magnetic excitations in magnetic tunnel junction nanopillars

Sierra Garcia, J.F., M. Quinsat, I. Joumard, U. Ebels, M.-C. Cyrille, J.-P. Michel, L.D. Buda-Prejbeanu, B. Dieny, J.A. Katine, D. Mauri and A. Zeltser

Poster: Recent Trends in Nanomagnetism, Spintronics and their Applications, Ordizia (Spain), Jun. 1-4 2011

Effect of occupation numbers on exchange coupling in low dimensional magnetic nanostructures

Terrade, D., H.X. Yang, A. Kalitsov, L.E. Nistor, M. Chshiev and B. Dieny

Oral: [American Physical Society March Meeting](#), Portland (USA), Mar. 21-25 2011

Numerical evidence of wide frequency tunability of spin transfer oscillators in the absence of applied field

Vaysset, A., L.D. Buda-Prejbeanu, J.-C. Toussaint, U. Ebels, I. Firastrau and B. Dieny

Poster: Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

Coherence enhancement of ultrafast spin transfer-driven precessional switching

Vaysset, A., C. Papusoi, L.D. Buda-Prejbeanu, J.-C. Toussaint, E. Kritisikis and B. Dieny

Oral: Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

Reproducibility enhancement of spin transfer-induced precessional switching

Vaysset, A., C. Papusoi, L.D. Buda-Prejbeanu, J.-C. Toussaint, E. Kritisikis and B. Dieny

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Micromagnetic analysis of frequency hopping in planar spin transfer torque oscillators layers

Vaysset, A., E. Kritisikis, J.-C. Toussaint, L.D. Buda-Prejbeanu, D. Gusakova and U. Ebels

Poster: Spin Master Voice Workshop, Villiers-le-Mahieu (France), Dec. 14-16 2011

Analyse micromagnétique des modes d'un oscillateur à transfert de spin

Vaysset, A., E. Kristikis, J.-C. Toussaint, L.D. Buda-Prejbeanu, D. Gusakova and U. Ebels

Oral: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Etude du paramètre non-adiabatique d'une paroi magnétique dans le cadre d'un modèle diffusif 3D

Vaysset, A., N. Strelkov, A. Vedyayev, N. Ryzhanova, D. Gusakova, L.D. Buda-Prejbeanu, M. Chshiev, J.-C. Toussaint and B. Dieny

Poster: Colloque Louis Néel, Brest (France), Sep. 20-23 2011

Inducing magnetism in graphene nanomesh

Yang, H.X., M. Chshiev, D.W. Boukhvalov, X. Waintal and S. Roche

Oral: 56th International Conference on Magnetism and Magnetic Materials, Scottsdale (USA), Oct. 30-Nov. 3 2011

Ab-initio justification of correlation between perpendicular magnetic anisotropy and Bloch states spin filtering in MgO-based tunnel junctions

Yang, H.X., M. Chshiev and B. Dieny

Oral: 56th International Conference on Magnetism and Magnetic Materials, Scottsdale (USA), Oct. 30-Nov. 3 2011

First-principles investigation of the very large perpendicular magnetic anisotropy at Fe/MgO interfaces

Yang, H.X., J.H. Lee, M. Chshiev, A. Manchon, L.E. Nistor, K.H. Shin and B. Dieny

Poster: Intermag Conference, Taipei (Taiwan), Apr. 25-29 2011

Mechanisms of perpendicular magnetic anisotropy at Fe(001)|MgO(001) interfaces

Yang, H.X., J.H. Lee, M. Chshiev, A. Manchon, K.H. Shin and B. Dieny

Poster: Imagine Nano Conference, Bilbao (Spain), Apr. 11-14 2011

Shape induced magnetic moment in graphene nanomesh

Yang, H.X., M. Chshiev, X. Waintal and S. Roche

Poster: Graphene Week 2011: Fundamental Science of Graphene and Applications of Graphene-Based Devices, Obergurgl (Austria), Apr. 24-29 2011

Nature of perpendicular magnetic anisotropy at Fe|MgO and Co|MgO interfaces from first principles

Yang, H.X., J.H. Lee, M. Chshiev, A. Manchon, L.E. Nistor, K.H. Shin and B. Dieny

Oral: Recent Trends in Nanomagnetism, Spintronics and their Applications, Ordizia (Spain), Jun. 1-4 2011

First-principle studies of interlayer exchange coupling in Co/SrTiO₃/Co magnetic tunnel junctions

Yang, H.X., B. Belhadji, J.P. Velev and M. Chshiev

Poster: 56th International Conference on Magnetism and Magnetic Materials, Scottsdale (USA), Oct. 30-Nov. 3 2011

Effects of shape- and edge-passivation on magnetic moments in graphene nanomesh by first-principles investigation

Yang, H.X. and M. Chshiev

Oral: [American Physical Society March Meeting](#), Portland (USA), Mar. 21-25 2011

2010

INVITED PRESENTATIONS

Spin transfer effects in FePt nanowires with narrow magnetic domain walls

Attané, J.-P., V. Nguyen, C. Burrowes, A.P. Mihai, A. Marty, J.S Kim, D. Ravelosona, F. Garcia Sanchez, L.D. Buda-Prejbeanu and L. Vila
55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Spin transfer torque and magnetic noise in magnetic tunnel junctions

Baraduc, C. and B. Dieny
International Symposium on Spintronic Devices and Commercialization, Beijing (China), Oct. 21-24 2010

Giant axial ratio multiferroic BiFeO₃ phase

Béa, H., S. Fusil, R. Mattana, I. Cañero Infante, J. Allibe, E. Jacquet, V. Cros, A. Anane, F. Petroff, K. Bouzehouane, M. Bibes, A. Barthélémy, P. Paruch, B. Dupé, G. Geneste, B. Dkhil, B. Warot-Fonrose, F. Wilhelm, A. Rogalev, S.S. Lisenkov, I. Ponomareva and L. Bellaiche
Advances in the Fundamental Physics of Ferroelectrics and Related Materials, Aspen (USA), Jan. 31-Feb. 5 2010

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Béa, H., S. Fusil, R. Mattana, I. Cañero Infante, J. Allibe, E. Jacquet, V. Cros, A. Anane, F. Petroff, K. Bouzehouane, M. Bibes, A. Barthélémy, P. Paruch, B. Dupé, G. Geneste, B. Dkhil, B. Warot-Fonrose, F. Wilhelm, A. Rogalev, S.S. Lisenkov, I. Ponomareva and L. Bellaiche
International Symposium on Integrated Functionalities, San Juan (USA), Jun. 13-16, 2010

Exploring the limits of soft X-ray magnetic holography: Imaging magnetization reversal of buried interfaces

Camarero, J., E. Jiménez, C. Tieg, J. Vogel, C. Arm, P. Perna, F. Yakhou-Harris, E. Gautier, S. Auffret, B. Delaup, G. Gaudin, B. Rodmacq, B. Dieny and R. Miranda
55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Emerging nonvolatile memories

Chin, A., R.C. Sousa, E.-T. Kang, K. Miyaji and M. Kozicki
Materials Research Society Spring Meeting, San Francisco (USA), Apr. 5-9 2010

Quantum theory of spin transfer torques in a view of memory applications

Chshiev, M.
International Symposium on Integrated Functionalities, San Juan (USA), Jun. 13-16 2010

Non-collinear spin transport in layered structures and bulk materials for spintronics

Chshiev, M.

[MINATEC Crossroads'10](#), Grenoble (France), Jun. 23-24 2010

Spin transfer torques in magnetic tunnel junctions

Chshiev, M.

[Gordon Research Conferences](#), "Magnetic Nanostructures", Lewiston (USA), Aug. 8-13 2010

Spin transport in noncollinear magnetic configurations by first-principles and tight-binding approaches

Chshiev, M.

[Atelier du Groupement de Recherche Co-DFT](#): Théorie et modélisation pour le magnétisme: de la molécule au transport polarisé en spin, Lyon (France), Nov. 3-5 2010

Theory of spintronic phenomena in magnetic tunnel junctions

Chshiev, M.

Topical School: Quantum aspects of the Physics of low dimensional systems, Nancy (France), Nov. 23-26 2010

Controlling magneto-transport in self-assembled (Ge, Mn) nanocolumns

Cibert, J., E. Arras, V. Baltz, A. Barski, C. Beigné, P. Bayle-Guillemaud, S. Cherifi, T. Devillers, M. Jamet, F. Lançon, P. Pochet, J. Rothman, S. Tardif, A. Titov and I.S. Yu
18th International Symposium on Nanostructures: Physics and Technology, Saint-Petersburg (Russia), Jun. 21-27 2010

Spintronic phenomena and components for memory logic and RF applications

Dieny, B.

IEEE International Conference on Integrated Circuit Design and Technology, Grenoble (France), Jun. 2-4 2010

Hybrid magnetic/CMOS integrated electronics

Dieny, B.

Nanospintronics Workshop, Hamburg (Germany), Jun. 14-17 2010

Comment l'électronique de spin pourrait aider à dépasser certaines limites de la microélectronique CMOS

Dieny, B., G. Prenat, R.C. Sousa, I.L. Prejbeanu, K. Mackay and J.-P. Nozières

Journées Nationales en Nanosciences et en Nanotechnologies, Lille (France), Nov. 8-9 2010

Scalable thermally-assisted MRAM

Dieny, B., G. Prenat, C. Papusoi, J. Alvarez-Hérault, E. Gapihan, S. Bandiera, M. Marins de Castro Souza, U. Ebels, S. Auffret, B. Rodmacq, L.D. Buda-Prejbeanu, R.C. Sousa, I.L. Prejbeanu, C. Ducruet, C. Portemont, K. Mackay and J.-P. Nozières
International Conference of Asian Union of Magnetic Societies, Jeju Island (South Korea), Dec. 5-8 2010

Temporal coherence of MgO-based magnetic tunnel junction spin torque oscillators

Ebels, U., M. Quinsat, D. Houssameddine, D. Gusakova, J.F. Sierra Garcia, J.-P. Michel, B. Delaët, M.-C. Cyrille, B. Dieny, D. Mauri and J.A. Katine
[American Physical Society March Meeting](#), Portland (USA), Mar. 15-19 2010

Spin-orbit torque: From single atoms to devices

Gambardella, P., I.M. Miron, G. Gaudin, S. Auffret, B. Rodmacq and A. Schuhl
SPIE Conference on Nanosciences and Engineering, San Diego (USA), Aug. 1-15 2010

Towards an electric control of spintronic devices

Garcia, V., M. Bibes, H. Béa, I. Canero, A. Crassous, J. Allibe, S. Fusil, K. Bouzehouane, E. Jacquet, L. Bocher, A. Gloter, N. Mathur and A. Barthélémy
7th Symposium on Magnetic Multilayers, Berkeley (USA), Sep. 19-24 2010

Current-induced domain wall motion in ultrathin Pt/Co/AIO_x wires

Moore, T.A., I.M. Miron, H. Szabolcs, D. Heese, H. Ouslimani, G. Gaudin, S. Auffret, B. Rodmacq, A. Schuhl, S. Pizzini and J. Vogel
55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Direct correlation between magnetic anisotropy and tunnel magnetoresistance in magnetic tunnel junctions with MgO barrier

Nistor, L.E., B. Rodmacq, C. Ducruet, C. Portemont, I.L. Prejbeanu, M. Chshiev and B. Dieny
RIEC International Workshop on Spintronics, Sendai (Japan), Feb. 4-5 2010

Perpendicular magnetic anisotropy and interlayer coupling in magnetic tunnel junctions

Nistor, L.E., B. Rodmacq, A. Manchon, M. Chshiev, H.X. Yang, B. Dieny, C. Ducruet, C. Portemont, I.L. Prejbeanu, J.H. Lee and K.H. Shin
International Workshop on Spintronics, Seoul (South Korea), Dec. 9 2010

Controlling magnetic vortices in circular dots using exchange bias

Noguès, J., G. Salazar Álvarez, J.J. Kavich, M. Tanase, A. Mugarza, S. Stepanow, A. Potenza, H. Marchetto, S.S. Dhesi, V. Baltz, A. Weber, L.J. Heyderman, A.K. Petford-Long, O. Heinonen, M.D. Baró, B. Dieny, K.S. Buchanan, A. Hoffmann, P. Gambardella and J. Sort
2nd Nordic Workshop on Spintronics and Nanomagnetism, Gimo Herrgård (Sweden), May 7-9 2010

MRAM: From thermally-assisted to spin transfer torque and beyond

Nozières, J.-P., Y. Conraux, C. Ducruet, E. Gapihan, L. Lombard, K. Mackay, C. Portemont, I.L. Prejbeanu, S. Auffret, M.-T. Delaye, J. Alvarez-Hérault, C. Papusoi, B. Rodmacq, R.C. Sousa and M. Marins de Castro Souza
11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

STT MRAM with high thermal stability

Nozières, J.-P., I.L. Prejbeanu, K. Mackay, C. Ducruet, C. Portemont, R.C. Sousa, C. Papisoi, E. Adams, J. Alvarez-Hérault, S. Bandiera, M. Marins de Castro Souza, M.-T. Delaye, Y. Dahmane and B. Dieny
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STT MRAM with high thermal stability

Nozières, J.-P., I.L. Prejbeanu, K. Mackay, C. Ducruet, C. Portemont, R.C. Sousa, C. Papisoi, E. Gapihan, J. Alvarez-Hérault, S. Bandiera, M. Marins de Castro Souza, M.-T. Delaye, Y. Dahmane and B. Dieny
International Symposium on Advanced Gate Stack Technology, Troy (USA), Sep. 29-Oct. 1 2010

Bias-voltage dependence of perpendicular spin transfer torque in asymmetric MgO-based magnetic tunnel junctions

Oh, S., S. Park, A. Manchon, M. Chshiev, J. Han, H. Lee, J. Lee, K. Nam, Y. Jo, Y. Kong, B. Dieny and K. Lee
55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Bias-voltage dependence of perpendicular spin transfer torque in asymmetric MgO-based magnetic tunnel junctions

Oh, S.-C., S.-Y. Park, A. Manchon, M. Chshiev, J.-H. Han, H.-W. Lee, J.-E. Lee, K.-T. Nam, Y. Lo, Y.-C. Kong, B. Dieny and K.-J. Lee
ISAMMA 2010, Sendai (Japan), Jul. 12-16 2010

Spin torque-driven excitations in MgO-based magnetic tunnel junctions

Quinsat, M., J.F. Sierra Garcia, D. Gusakova, J.-P. Michel, D. Houssameddine, U. Ebels, M.-C. Cyrille, B. Delaët, B. Dieny, D. Mauri, J.A. Katine and A. Zeltser
4th Symposium on Trends in Magnetism, Ekaterinburg (Russia) Jun. 28-Jul. 2 2010

Time domain studies of MgO-based spin torque oscillators

Quinsat, M., J.F. Sierra Garcia, J.-P. Michel, B. Delaët, B. Viala, U. Ebels, M.-C. Cyrille, B. Dieny, D. Mauri and J.A. Katine
2nd Nordic Workshop on Spintronics and Nanomagnetism, Stockholm (Sweden), May 7-9 2010

ORAL AND POSTER PRESENTATIONS

Spin transfer torque switching of exchange-pinned TA-MRAM cell

Alvarez-Hérault, J., R.C. Sousa, E. Gapihan, C. Papisoi, M.-T. Delaye, Y. Dahmane, C. Ducruet, I.L. Prejbeanu, J.-P. Nozières and B. Dieny
Poster: 7th Symposium on Magnetic Multilayers, Berkeley (USA), Sep. 19-24 2010

Oscillations in spin transfer torque-driven magnetization reversal probability

Alvarez-Hérault, J., E. Gapihan, R.C. Sousa, C. Papisoi, M.-T. Delaye, I.L. Prejbeanu, B. Delaët, J.-P. Nozières and B. Dieny
Poster: 11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

Retournement par transfert de spin d'une cellule TA-MRAM piégée par échange

Alvarez-Hérault, J., R.C. Sousa, E. Gapihan, C. Papisoi, M.-T. Delaye, Y. Dahmane, C. Ducruet, I.L. Prejbeanu, J.-P. Nozières and B. Dieny

Oral: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Modelling and measurement of transport properties in Current-Confined-Path GMR structures

Amara-Dababi, S., C. Baraduc, N. Strelkov, A. Vedyayev, L.D. Buda-Prejbeanu, M. Chshiev, Y. Liu, M. Li, K. Zhang and B. Dieny

Oral: 11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

Direct holographic imaging of magnetic stray field from bit-patterned media

Arm, C., P. Bayle-Guillemaud, E. Gautier, B. Rodmacq and B. Dieny

Oral: 11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

Holographic imaging of magnetic stray field from bit-patterned media

Arm, C., P. Bayle-Guillemaud, A. Marty, E. Gautier, J. Moritz, V. Baltz, B. Rodmacq and B. Dieny

Oral: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Magnetic particles for biotechnology

Balint, P., H. Joisten, P. Sabon, S. Auffret, J. Faure-Vincent and B. Dieny

Poster: NanoSpain 2010, Malaga (Spain), Mar. 23-26 2010

Bimodal distributions of blocking temperature and their impact in exchange-biased spintronic nanodevices

Baltz, V., G. Gaudin, P. Somani, B. Rodmacq, S. Auffret and B. Dieny

Oral: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Distribution bimodale des spins d'antiferromagnétique responsables de l'anisotropie d'échange

Baltz, V., P. Somani, B. Rodmacq, A. Zarefy, L. Lechevallier and B. Dieny

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Bimodal distributions of blocking temperature and their impact in exchange-biased spintronic nanodevices

Baltz, V., P. Somani, B. Rodmacq, A. Zarefy, L. Lechevallier and B. Dieny

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Synthetic antiferromagnet reference layer in magnetic tunnel junctions with perpendicular magnetic anisotropy

Bandiera, S., R.C. Sousa, Y. Dahmane, C. Ducruet, C. Portemont, S. Auffret, I.L. Prejbeanu and B. Dieny

Poster: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Off-axis Al deposition for low resistivity tunnel barriers

Bandiera, S., R.C. Sousa, C. Ducruet, C. Portemont, S. Auffret, I.L. Prejbeanu and B. Dieny

Poster: 11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

Jonctions tunnel magnétiques perpendiculaires à faible résistance à barrière d'alumine

Bandiera, S., R.C. Sousa, C. Ducruet, C. Portemont, S. Auffret, I.L. Prejbeanu, C. Dressler and B. Dieny

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Magnetic mapping for materials with perpendicular magnetization

Bayle-Guillemaud, P., C. Arm, A. Masseboeuf, A. Marty, B. Dieny, E. Gautier, E. Snoeck and C. Gatel

Oral: International Microscopy Congress, Rio de Janeiro (Brazil), Sep. 19-24 2010

Giant axial ratio multiferroic BiFeO₃ phase

Béa, H., B. Dupé, S. Fusil, J. Allibe, I. Cañero Infante, R. Mattana, E. Jacquet, B. Warot-Fonrose, F. Wilhelm, A. Rogalev, S. Petit, K. Bouzehouane, G. Geneste, B. Dkhil, S. Lisenkov, I. Ponomareva, L. Bellaiche, M. Bibes, P. Paruch and A. Barthélémy

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Current-induced vortex dynamics and pinning potentials probed by homodyne detection

Boulle, O., J.S. Kim, S. Verstoep, L. Heyne, J. Rhensius, M. Kläui, L.J. Heyderman, R. Mattheis and G. Faini

Oral: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Non-adiabatic spin torques in narrow magnetic domain walls

Burrowes, C., A.P. Mihai, D. Ravelosona, J.V. Kim, L. Vila, A. Marty, F. Garcia Sanchez, L.D. Buda-Prejbeanu, C. Chappert, I. Tudosa, E.E. Fullerton and J.-P. Attané

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Non-adiabatic spin torques in narrow magnetic domain walls

Burrowes, C., A.P. Mihai, D. Ravelosona, J.V. Kim, L. Vila, A. Marty, F. Garcia Sanchez, L.D. Buda-Prejbeanu, C. Chappert, I. Tudosa, E.E. Fullerton and J.-P. Attané

Oral: 4th Seeheim Conference on Magnetism, Seeheim (Germany), Mar. 28-Apr. 1 2010

Exploring exchange bias phenomena by soft X-ray spectroscopy and holography

Camarero, J., E. Jiménez, J. Vogel, C. Tieg, P. Perna, C. Arm, F. Yakhou-Harris, B. Rodmacq, E. Gautier, S. Auffret, B. Delaup, G. Gaudin, B. Dieny and R. Miranda

Oral: Joint European Magnetic Symposia, Krakov (Poland), Aug. 23-28 2010

Influence of spin transfer torque on thermally activated ferromagnetic resonance excitations in magnetic tunnel junctions

De Mestier, N., C. Baraduc, C. Thirion, Y. Liu, M. Li, P. Wang and B. Dieny

Oral: 11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

Hybrid magnetic/semiconductor integrated electronics

Dieny, B.

Oral: Colloque en l'honneur des 40 ans du Prix Nobel de Louis Néel, Grenoble (France), Oct. 21 2010

Energie démagnétisante et barrière d'énergie de plots plats tricouches antiferromagnétiques synthétiques (SYAF)

Fruchart, O. and B. Dieny

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Magnetostatics of synthetic ferrimagnet elements

Fruchart, O. and B. Dieny

Oral: Joint European Magnetic Symposia, Krakov (Poland), Aug. 23-28 2010

Voltage-dependent exchange coupling in single crystal MgO-based magnetic tunnel junction

Gangineni, R.B., P.-J. Zermatten, M. Thornton, M.-T. Delaye, L. Vila, G. Gaudin, C. Baraduc, A. Schuhl, B. Negulescu, A. Duluard, C. Tiusan, C. Bellouard, M. Hehn and S. Andrieu

Oral: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Fabrication of single crystal magnetic tunnel junction nano-pillars for RF measurements

Gangineni, R.B., M.-T. Delaye, L. Vila, C. Baraduc, A. Schuhl, B. Negulescu, A. Duluard, C. Bellouard, C. Tiusan and M. Hehn

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Current polarity-dependent heating asymmetry in magnetic tunnel junctions

Gapihan, E., J. Alvarez-Hérault, R.C. Sousa, Y. Dahmane, I.L. Prejbeanu, C. Ducruet, C. Portemont, K. Mackay, J.-P. Nozières and B. Dieny

Oral: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Couche de stockage piégée par FeMn pour mémoires magnétiques à écriture assistée thermiquement (TA-MRAM)

Gapihan, E., R.C. Sousa, J. Alvarez-Hérault, C. Papisoi, M.-T. Delaye, I.L. Prejbeanu, C. Ducruet, C. Portemont, K. Mackay, J.-P. Nozières and B. Dieny

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

FeMn exchange-biased storage layer for thermally-assisted MRAM

Gapihan, E., R.C. Sousa, J. Alvarez-Hérault, C. Papisoi, M.-T. Delaye, I.L. Prejbeanu, C. Ducruet, C. Portemont, K. Mackay, J.-P. Nozières and B. Dieny

Oral: 11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

Apport de la réflectivité X aux couches ultraminces magnétiques

Garad, H.M., A. Fettar, L. Ortega, A.Y. Ramos, P. Plaindoux, J. Marcus, S. Auffret, B. Rodmacq and B. Dieny

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

The contribution of X-ray reflectivity and X-ray absorption spectroscopy to the oxygen-induced magnetic properties in Pt/Co/AlO_x

Garad, H.M., F. Fettar, L. Ortega, A.Y. Ramos, B. Dieny, B. Rodmacq, J. Marcus and F. Gay

Oral: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Anomalous Extraordinary Hall Effect in Pt/Co/AlO_x

Garad, H.M., L. Ortega, A. Ramos, J. Marcus, F. Fettar, S. Auffret, B. Rodmacq, B. Dieny and F. Gay

Oral: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Rashba spin-orbit torques in ferromagnetic thin films

Gaudin, G., I.M. Miron, T.A. Moore, H. Szabolcs, S. Auffret, B. Rodmacq, L.D. Buda-Prejbeanu, A. Schuhl, S. Pizzini, J. Vogel, M. Bonfim and P. Gambardella

Oral: 23^{èmes} Entretiens du Centre Jacques Cartier: Nanomagnétisme et Spintronique, Grenoble (France), Nov. 24-25 2010

Dependance of non-local damping on the ferromagnetic layer type in FM/NM₁/NM₂

Ghosh, A., J.F. Sierra Garcia, S. Auffret, U. Ebels and W.E. Bailey

Oral: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Linewidth reduction of spin transfer-driven excitations due to mode coupling

Gusakova, D., M. Quinsat, J.F. Sierra Garcia, V. Tiberkevich, U. Ebels, B. Dieny, L.D. Buda-Prejbeanu, B. Delaët and M.-C. Cyrille

Oral: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Modélisation des courants de charge et de spin dans des dispositifs de géométrie complexe

Gusakova, D., N. Strelkov, A. Vedyayev, N. Ryzhanova, L.D. Buda-Prejbeanu, M. Chshiev, S. Amara-Dababi, A. Vaysset, C. Baraduc and B. Dieny

Oral: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Spin current-induced magnetization dynamics investigated in the time domain

Houssameddine, D., M. Quinsat, J.F. Sierra Garcia, J.-P. Michel, K. Garello, B. Delaët, B. Viala, U. Ebels, M.-C. Cyrille, B. Dieny, D. Mauri and J.A. Katine

Oral: 11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

Modulated spinodal decomposition in (Ge, Mn) films grown on GaAs (100)

Jamet, M., I.S. Yu, T. Devillers, A. Barski, P. Bayle-Guillemaud, C. Beigné, V. Baltz and J. Cibert

Oral: [American Physical Society March Meeting](#), Portland (USA), Mar. 15-19 2010

Towards tailoring magnetic properties in exchange-biased systems

Jiménez, E., J. Camarero, J. Sort, J. Noguès, J.M. García Martín, N. Mikuszeit, P. Perna, F.J. Teran, A. Hoffmann, B. Dieny and R. Miranda

Oral: Joint European Magnetic Symposia, Krakov (Poland), Aug. 23-28 2010

Role of anisotropy configuration in exchange-biased systems

Jiménez, E., J. Camarero, J. Sort, J. Noguès, J.M. García-Martín, N. Mikuszeit, P. Perna, F.J. Teran, A. Hoffmann, B. Dieny and R. Miranda

Oral: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Interface characterization of magnetic multilayers by atom probe tomography and relation with their magnetic properties

Juraszek, J., L. Lechevallier, R. Lardé, A. Zarefy, J.-M. Le Breton, J. Teillet, N. Tiercelin, P. Pernod, V. Baltz, B. Rodmacq and B. Dieny

Poster: 23^{èmes} Entretiens du Centre Jacques Cartier: Nanomagnétisme et Spintronique, Grenoble (France), Nov. 24-25 2010

Voltage-induced control and magnetoresistance of magnetically frustrated systems

Kalitsov, A., M. Chshiev, B. Canals and C. Lacroix

Poster: 11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

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Oral: [American Physical Society March Meeting](#), Portland (USA), Mar. 15-19 2010

Simulation micromagnétique avec fellgood

Kritsikis, E., J.-C. Toussaint, F. Alouges, L.D. Buda-Prejbeanu and O. Fruchart

Oral: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Structural characterization of interfaces in exchange-coupled multilayers and relation with their magnetic properties

Lardé, R., J.-M. Le Breton, A. Grenier, A. Zarefy, L. Lechevallier, J. Juraszek, N. Tiercelin, P. Pernod, V. Baltz, B. Rodmacq and B. Dieny

Poster: ISAMMA 2010, Sendai (Japan), Jul. 12-16 2010

Perpendicular magnetic anisotropy at Fe/MgO interfaces

Lee, K.J., K. Shin, M. Chshiev, A. Manchon, B. Rodmacq and B. Dieny

Poster: 11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

IrMn and FeMn blocking temperature dependance on heating pulse width

Lombard, L., E. Gapihan, R.C. Sousa, Y. Dahmane, C. Portemont, Y. Conraux, C. Papusoi, I.L. Prejbeanu, J.-P. Nozières, B. Dieny and A. Schuhl

Oral: 11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

Metallic Mg insertion in RF-deposited MgO barrier

Marins de Castro Souza, M., R.C. Sousa, C. Ducruet, S. Auffret and B. Dieny

Oral: 11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

Integration of a perpendicular polarizer in a magnetic tunnel junction

Marins de Castro Souza, M., R.C. Sousa, U. Ebels, B. Rodmacq, S. Auffret, C. Ducruet, C. Papusoi, S. Bandiera, M.-T. Delaye, Y. Dahmane and B. Dieny

Poster: Journée des Doctorants EEATS, Grenoble (France), Mar. 25 2010

Intégration d'un polariseur perpendiculaire dans une jonction tunnel magnétique

Marins de Castro Souza, M., R.C. Sousa, U. Ebels, B. Rodmacq, S. Auffret, C. Ducruet, I.L. Prejbeanu, C. Papusoi, S. Bandiera, C. Portemont, M.-T. Delaye, Y. Dahmane, J. Alvarez-Hérault and B. Dieny

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

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Marins de Castro Souza, M., R.C. Sousa, U. Ebels, B. Rodmacq, S. Auffret, C. Ducruet, I.L. Prejbeanu, C. Papusoi, S. Bandiera, C. Portemont, M.-T. Delaye, Y. Dahmane, J. Alvarez-Hérault and B. Dieny

Oral: Journées Nationales du Réseau des Doctorants en Microélectronique, Montpellier (France), Jun. 7-9 2010

Dynamic binding of driven domain walls in coupled ultrathin ferromagnetic layers

Metaxas, P.J., R.L. Stamps, J.-P. Jamet, J. Ferré, V. Baltz, B. Rodmacq and P. Politi

Poster: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Spin-orbit torques in ferromagnetic metal systems characterized by Rashba type structural inversion asymmetry

Miron, I.M., G. Gaudin, S. Auffret, B. Rodmacq, A. Schuhl, S. Pizzini, J. Vogel and P. Gambardella

Oral: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Relation between non-adiabaticity and damping probed by domain wall velocity measurements in doped Permalloy nanowires

Moore, T.A., P. Möhrke, M. Kläui, L. Heyne, D. Backes, J. Rhensius, L.J. Heyderman and U. Rüdiger

Oral: 11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

Current-induced domain wall motion in ultrathin Pt/Co/AIO_x wires with perpendicular magnetic anisotropy

Moore, T.A., I.M. Miron, H. Szabolics, D. Heese, H. Ouslimani, G. Gaudin, S. Auffret, B. Rodmacq, A. Schuhl, S. Pizzini and J. Vogel

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Oral: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Fast current-induced domain wall motion controlled by the Rashba effect

Moore, T.A., I.M. Miron, H. Szabolics, D. Heese, G. Gaudin, L.D. Buda-Prejbeanu, S. Auffret, B. Rodmacq, A. Schuhl, S. Pizzini and J. Vogel

Oral: Joint European Magnetic Symposia, Krakov (Poland), Aug. 23-28 2010

Influence of oxidation conditions on indirect coupling in perpendicular magnetic tunnel junctions

Nistor, L.E., B. Rodmacq, S. Auffret, M. Marins de Castro Souza, M. Chshiev, A. Schuhl and B. Dieny

Oral: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Taking advantage of perpendicular magnetic anisotropy in magnetic tunnel junctions

Nistor, L.E., B. Rodmacq, S. Auffret, S. Bandiera, E. Gautier, B. Dieny, C. Portemont, C. Ducruet and I.L. Prejbeanu

Poster: 23^{èmes} Entretiens du Centre Jacques Cartier: Nanomagnétisme et Spintronique, Grenoble (France), Nov. 24-25 2010

Correlation between magnetoresistance and perpendicular anisotropy in magnetic tunnel junctions

Nistor, L.E., B. Rodmacq, S. Auffret, B. Dieny, C. Ducruet, C. Portemont and I.L. Prejbeanu

Oral: 11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

Couplage indirect oscillant dans des jonctions tunnel à anisotropie perpendiculaire

Nistor, L.E., B. Rodmacq, S. Auffret, A. Schuhl, M. Chshiev and B. Dieny

Oral: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Interlayer coupling in tunnel junctions with perpendicular magnetic anisotropy

Nistor, L.E., B. Rodmacq, S. Auffret, A. Schuhl, M. Chshiev and B. Dieny

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Nistor, L.E., B. Rodmacq, S. Auffret, A. Schuhl, M. Chshiev and B. Dieny

Oral: ISAMMA 2010, Sendai (Japan), Jul. 12-16 2010

Bias-voltage dependence of perpendicular spin transfer torque in asymmetric MgO-based magnetic tunnel junctions

Oh, S.-C., S.-Y. Park, A. Manchon, M. Chshiev, J.-H. Han, H.-W. Lee, J.-E. Lee, K.-T. Nam, Y. Jo, Y.-C. Kong, B. Dieny and K.-J. Lee

Oral: [American Physical Society March Meeting](#), Portland (USA), Mar. 15-19 2010

100ps precessional spin transfer switching of in-plane magnetized MRAM cell with perpendicular polarizer

Papusoi, C., S. Bandiera, M. Marins de Castro Souza, Y. Dahmane, U. Ebels, S. Auffret, L.D. Buda-Prejbeanu, A. Vaysset, R.C. Sousa and B. Dieny

Oral: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Phase noise of MgO-based magnetic tunnel junction spin torque oscillators

Quinsat, M., D. Gusakova, J.F. Sierra Garcia, J.-P. Michel, B. Delaët, B. Viala, U. Ebels, M.-C. Cyrille, B. Dieny, D. Mauri, J.A. Katine and A. Zeltser

Poster: 7th Symposium on Magnetic Multilayers, Berkeley (USA), Sep. 19-24 2010

Etude temporelle de la dynamique de l'aimantation induite par le transfert de spin

Quinsat, M., D. Houssameddine, J.F. Sierra Garcia, J.-P. Michel, B. Delaët, B. Viala, U. Ebels, M.-C. Cyrille, B. Dieny, D. Mauri and J.A. Katine

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Amplitude and phase noise of MgO-based magnetic tunnel junction oscillators

Quinsat, M., J.F. Sierra Garcia, D. Gusakova, J.-P. Michel, D. Houssameddine, B. Delaët, U. Ebels, M.-C. Cyrille, B. Dieny, D. Mauri, J.A. Katine and A. Zeltser

Oral: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Magneto-dielectric effect in tri-layered PVDF/CoFeHfN composite materials. Prediction and measurement for tunable microwave applications

Rasoanoavy, F., V. Laur, S. de Blasi, P. Lezaca, P. Queffelec, K. Garello and B. Viala

Poster: 11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

Magneto-dielectric couplings in FeCoB/PVDF/FeCoB multilayers for microwave tunable applications

Rasoanoavy, F., V. Laur, K. Garello, B. Viala and P. Queffelec

Poster: 7th Symposium on Magnetic Multilayers, Berkeley (USA), Sep. 19-24 2010

Non-adiabatic spin torques in narrow magnetic domain walls

Ravelosona, D., C. Burrowes, A.P. Mihai, J.V. Kim, S. Park, C. Chappert, L. Vila, A. Marty, F. Garcia Sanchez, L.D. Buda-Prejbeanu, I. Tudosa, E.E. Fullerton and J.-P. Attané

Oral: 11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

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Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Frequency domain studies of spin torque oscillators based on MgO tunnel junctions

Sierra Garcia, J.F., M. Quinsat, D. Houssameddine, J.-P. Michel, U. Ebels, B. Delaët, B. Dieny, M.-C. Cyrille, J.A. Katine and D. Mauri

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Spin transfer torque on antiferromagnets

Somani, P., V. Baltz, H. Béa, G. Gaudin, M. Chshiev and A. Schuhl

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Finite element modelling of charge and spin currents in spintronic devices. Application to current-confined-path structures, MR read heads and lateral spin valves

Strelkov, N., A. Vedyayev, D. Gusakova, L.D. Buda-Prejbeanu, M. Chshiev and B. Dieny

Poster: 4th International Workshop on Spin Currents, Sendai (Japan), Feb. 8-9 2010

Disorder-induced enhancement of spin torque in magnetic tunnel junctions

Tang, Y., N. Kioussis and A. Kalitsov

Poster: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Effect of occupation numbers on interlayer exchange coupling

Terrade, D., A. Kalitsov, H.X. Yang, M. Chshiev, X. Waintal, C. Baraduc and B. Dieny

Oral: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Mechanism of magneto-transport properties modulation via interfacial electronic structure in single crystal Fe-MgO-Fe tunnel junctions

Tiusan, C., H.X. Yang, M. Chshiev, F. Greullet, C. Bellouard, Y. Lu, F. Montaigne and M. Hehn

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Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Time-resolved imaging of subnanosecond magnetization dynamics in magnetic nanowires induced by current pulses

Uhlir, V., S. Pizzini, N. Rougemaille, Z. Ishaque, O. Fruchart, V. Cros, E. Jiménez, J. Camarero, G. Gaudin, F. Sirotti, J. Criginski Cezar and J. Vogel

Oral: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Micromagnetic simulations of spin transfer torque oscillator: Finite elements vs finite volumes

Vaysset, A., E. Kritsikis, J.-C. Toussaint and L.D. Buda-Prejbeanu

Poster: IEEE Magnetics Society Summer School, Dresden (Germany), Aug. 16-20 2010

Etude micromagnétique d'un oscillateur STT: Eléments finis versus volumes finis

Vaysset, A., E. Kritsikis, J.-C. Toussaint and L.D. Buda-Prejbeanu

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Spin-polarized transport in Fe-Cr-(Fe)-MgO-Fe magnetic tunnel junctions using a two-band model

Vedyaev, A., N. Ryzhanova, N. Strelkov, M. Chshiev and B. Dieny

Oral: 11th Joint MMM-Intermag Conference, Washington (USA), Jan. 18-22 2010

Couplage entre ferromagnétique et BiFeO₃: Influence d'un champ électrique

Viret, M., A. Mougin, D. Lebeugle, D. Colson, L. Ranno, J. Allibe, H. Béa, E. Jacquet, C. Deranlot, M. Bibes and A. Barthélémy

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Perpendicular anisotropy of ultrathin epitaxial cobalt films on graphene

Vo-Van, C., Z. Kassir-Bodon, H.X. Yang, J. Coraux, J. Vogel, S. Pizzini, P. Bayle-Guillemaud, M. Chshiev, L. Ranno, V. Santonacci, P. David, V. Salvador and O. Fruchart

Oral: Joint European Magnetic Symposia, Krakov (Poland), Aug. 23-28 2010

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Effect of oxidation on interlayer exchange coupling in Fe|MgO|Fe tunnel junctions

Yang, H.X., M. Chshiev, A. Kalitsov, A. Schuhl and W.H. Butler

Poster: [American Physical Society March Meeting](#), Portland (USA), Mar. 15-19 2010

Effect of oxidation conditions on interlayer exchange coupling in Fe-MgO-Fe tunnel junctions from first-principles and tight-binding approaches

Yang, H.X., M. Chshiev, A. Kalitsov, A. Schuhl and W.H. Butler

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Effect of oxidation conditions on interlayer exchange coupling in Fe/MgO/Fe MTJs from first-principles and tight-binding approaches

Yang, H.X., M. Chshiev, A. Kalitsov, A. Schuhl and W.H. Butler

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Oscillatory interlayer exchange coupling in Fe|GaAs|Fe and Fe|ZnSe|Fe tunnel junctions from first-principles calculations

Yang, H.X., M. Chshiev, A. Kalitsov, A. Schuhl and B. Dieny

Oral: 55th International Conference on Magnetism and Magnetic Materials, Atlanta (USA), Nov. 14-18 2010

Magnetotransport in (Ge, Mn) thin films grown on GaAs(100)

Yu, I.S., M. Jamet, T. Devillers, A. Barski, P. Bayle-Guillemaud, L. Vila, C. Beigné, V. Baltz, J. Rothman and J. Cibert

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Etude de multicouches (Pt/Co_{tCo})₃/Pt_{tPt}/IrMn: Corrélation nanostructure-propriétés magnétiques

Zarefy, A., R. Lardé, L. Lechevallier, J.-M. Le Breton, V. Baltz, B. Rodmacq and B. Dieny

Poster: Colloque Louis Néel, Albé (France), Mar. 31-Apr. 2 2010

Spin torque oscillator characteristics in coupled networks

Zarudniev, M., E. Colinet, P. Villard, U. Ebels and G. Scorletti

Oral: First Workshop on Hardware and Software Implementation and Control of Distributed MEMS, Besançon (France), Jun. 28-29 2010

2009

INVITED PRESENTATIONS

Rational design of half-metallic alloys

Butler, W.H., C. Mewes, C. Liu and M. Chshiev

[American Physical Society March Meeting](#), Pittsburgh (USA), Mar. 16-20 2009

Voltage dependence properties of ballistic spin currents and spin transfer torques in magnetic tunnel junctions

Chshiev, M.

[American Physical Society March Meeting](#), Pittsburgh (USA), Mar. 16-20 2009

Description of spintronic phenomena with tight-binding and ab-initio simulation tools

Chshiev, M.

[Workshop de la Fondation Nanosciences](#), "Les apports de la simulation numérique en nanosciences", Grenoble (France), Mar. 23 2009

Self-assembled ferromagnetic GeMn nanocolumns: A new magnetic semiconductor?

Devillers, T., M. Jamet, A. Barski, P. Bayle-Guillemaud, J. Cibert, S. Cherifi, V. Favre-Nicolin, E. Bellet-Amalric, V. Baltz, J. Rothman, I.S. Yu, C. Porret and S. Tardif

European Workshop on Self-organized Nanomagnets, Aussois (France), Mar. 29-Apr. 3 2009

Spintronic components for memories and logic applications

Dieny, B.

Nano ICT Cluster Review, Grenoble (France), May 25 2009

Models for spintronics

Dieny, B.

European School of Magnetism, Timisoara (Romania), Sep. 1-10 2009

Spintronic components

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Lateral piezoelectric response across ferroelectric domain walls in thin films

Guyonnet, J., H. Béa and P. Paruch

International Conference on Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials, Aveiro (Portugal), Jun. 22-27 2009

Time domain spin current-induced magnetization dynamics

Houssameddine, D., U. Ebels, K. Garello, J.-P. Michel, M. Quinsat, J.F. Sierra Garcia, B. Delaët, B. Viala, M.-C. Cyrille, B. Dieny, D. Mauri and J.A. Katine
Spin Dynamics Summer School, Iasi (Romania), Sep. 14-18 2009

Direct measurement of the non-adiabatic parameter in thin films with perpendicular magnetic anisotropy

Miron, I.M., P.-J. Zermatten, H. Szabolcs, G. Gaudin, S. Auffret, B. Rodmacq, T.A. Moore, G. Serret, M. Bonfim, J. Vogel, S. Pizzini and A. Schuhl
Intermag Conference, Sacramento (USA), May 4-8 2009

Finite-element modelling of charge and spin currents in CPP GMR

Strelkov, N., A. Vedyayev, L.D. Buda-Prejbeanu, M. Chshiev and B. Dieny
Intermag Conference, Sacramento (USA), May 4-8 2009

A GHz spintronic-based RF nano-oscillator

Vincent, P., M.-C. Cyrille, B. Viala, B. Delaët, J.-P. Michel, P. Villard, J. Prouvée, D. Houssameddine, U. Ebels, J.A. Katine, D. Mauri, S.H. Florez, O. Ozatay, L. Folks, B.D. Terris and F. Badets

Invited: IEEE International [Solid-State Circuits Conference](#), San Francisco (USA), Feb. 8-12 2009

ORAL AND POSTER PRESENTATIONS

Spin transfer torque switching of exchange-pinned TA-MRAM

Alvarez-Hérault, J., R.C. Sousa, M.-T. Delaye, C. Ducruet, C. Portemont, I.L. Prejbeanu, J.-P. Nozières and B. Dieny

Oral: Intermag Conference, Sacramento (USA), May 4-8 2009

Nanostructured functionalized magnetic particles for biotechnology

Balint, P., H. Joisten, P. Sabon, S. Auffret, B. Dieny and J. Faure-Vincent

Poster: Nanobio Europe Grenoble 2009, Grenoble (France), Jun. 16-18 2009

Balancing interlayer dipolar interactions by RKKY coupling in multilevel magnetic nanostructures with out-of-plane anisotropy

Baltz, V., B. Rodmacq, A. Bollero, B. Dieny, J. Ferré and S. Landis

Oral: Intermag Conference, Sacramento (USA), May 4-8 2009

Balancing interlayer dipolar interactions by RKKY coupling in multilevel magnetic nanostructures with out-of-plane anisotropy

Baltz, V., B. Rodmacq, A. Bollero, B. Dieny, J. Ferré and S. Landis

Poster: International Colloquium on Magnetic Films and Surfaces, Berlin (Germany), Jul. 20-24 2009

Bimodal distribution of interfacial antiferromagnetic spins responsible for exchange bias in ferromagnetic/antiferromagnetic bilayers

Baltz, V., B. Rodmacq, A. Zarefy, L. Lechevallier and B. Dieny

Oral: International Colloquium on Magnetic Films and Surfaces, Berlin (Germany), Jul. 20-24 2009

Miniaturisation de composants RF grâce à un substrat magnéto-diélectrique à forte permittivité et forte perméabilité

Bénevent, E., K. Garelo, F. Grange and B. Viala

Oral: Journées Nationales Microondes, Grenoble (France), Feb. 5-6 2009

Analytical model for integrated coplanar waveguide loaded with magneto-dielectric thin films

Bénevent, E., K. Garelo and B. Viala

Oral: Intermag Conference, Sacramento (USA), May 4-8 2009

Imaging magnetization reversal in perpendicular exchange-coupled AFM/FM systems by soft X-ray holography

Camarero, J., C. Tieg, E. Jiménez, J. Vogel, C. Arm, G. Gaudin, E. Gautier, B. Rodmacq, B. Dieny and R. Miranda

Oral: International Conference on Magnetism, Karlsruhe (Germany), Jul. 26-31 2009

Imaging magnetization reversal of buried interfaces by soft X-ray holography

Camarero, J., C. Tieg, E. Jiménez, J. Vogel, C. Arm, B. Rodmacq, E. Gautier, S. Auffret, B. Delaup, G. Gaudin, B. Dieny and R. Miranda

Oral: 10th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures, Granada (Spain), Sep. 21-25 2009

Amplificateur différentiel faible bruit filtrant et accordable

Collot, L., J. Lintignat, B. Barelaud, B. Jarry, B. Viala and D. Morche

Poster: Journées Nationales Microondes, Grenoble (France), Feb. 5-6 2009

Field- and current-induced domain wall propagation in magnetic nanotracks with out-of-plane anisotropy

Cormier, M., A. Mougin, J. Ferré, A. Thiaville, N. Charpentier, F. Piéchon, J.-P. Jamet, R. Weil and B. Rodmacq

Oral: International Colloquium on Magnetic Films and Surfaces, Berlin (Germany), Jul. 20-24 2009

Spin transfer torque and thermally-assisted ferromagnetic resonance in magnetic tunnel junctions

De Mestier, N., R.B. Gangineni, C. Baraduc, C. Thirion, Y. Liu, M. Li, P. Wang and B. Dieny

Poster: International Colloquium on Magnetic Films and Surfaces, Berlin (Germany), Jul. 20-24 2009

Spin transfer torque and thermally-assisted ferromagnetic resonance in magnetic tunnel junctions

De Mestier, N., R.B. Gangineni, C. Baraduc, C. Thirion, Y. Liu, M. Li, P. Wang and B. Dieny

Oral: Indo-French Workshop on Nanoscience and Nanotechnology, Dehli (India), Oct. 12-14 2009

Self-assembled GeMn nanocolumns: A new magnetic semiconductor for spintronics applications

Devillers, T., M. Jamet, A. Barski, P. Bayle-Guillemaud, J. Cibert, S. Cherifi, V. Favre-Nicolin, V. Baltz, J. Rothman, I.S. Yu, C. Porret and S. Tardif

Poster: 5th International School and Conference on Spintronics and Quantum Information Technology, Cracow (Poland), Jul. 7-11 2009

Investigation of metallic/oxide interfaces in Pt/Co/AIO_x trilayers by hard X-ray reflectivity

Fettar, F., H.M. Garad, A.Y. Ramos, L. Ortega, J. Marcus, B. Zawilski, P. Plaindoux, S. Auffret, B. Rodmacq and B. Dieny

Poster: Intermag Conference, Sacramento (USA), May 4-8 2009

Thermally-activated depinning under field and current in wires with perpendicular anisotropy

Garcia Sanchez, F., L.D. Buda-Prejbeanu, H. Szabolics, A.P. Mihai, J.-P. Attané, L. Vila, A. Marty and J.-C. Toussaint

Oral: 7th International Symposium on Hysteresis Modeling and Micromagnetics, Gaithersburg (USA), May 11-14 2009

Magneto-dielectric thin film heterostructure with high permeability and permittivity

Garello, K., E. Bénevent, D. Cros and B. Viala

Oral: Intermag Conference, Sacramento (USA), May 4-8 2009

Hétérostructure magnéto-diélectrique en couches minces combinant forte perméabilité et forte permittivité

Garello, K., E. Bénevent, F. Grange and B. Viala

Oral: Journées Nationales Microondes, Grenoble (France), Feb. 5-6 2009

Investigation of magneto-dielectric thin films as substrates for patch antennas

Grange, F., K. Garello, E. Bénevent, S. Bories, B. Viala, C. Delaveaud and K. Mahdjoubi

Oral: 3rd European [Conference on Antennas and Propagation](#), Berlin (Germany), Mar. 23-27 2009

Spin injection in silicon at zero magnetic field

Grenet, L., M. Jamet, P. Warin, P. Noé, V. Calvo, J.-M. Hartmann, L.E. Nistor, B. Rodmacq, S. Auffret and Y. Samson

Oral: EUROMAT 09, Glasgow (United Kingdom), Sep. 7-10 2009

Numerical study of spin-polarized current-driven excitations of a synthetic antiferromagnetic layer

Gusakova, D., I. Firastrau, D. Houssameddine, U. Ebels, B. Dieny, M.-C. Cyrille, B. Delaët and L.D. Buda-Prejbeanu

Poster: International Colloquium on Magnetic Films and Surfaces, Berlin (Germany), Jul. 20-24 2009

Spin-polarized current-driven excitations in spin valve nanopillars with a synthetic antiferromagnetic pinned layer

Houssameddine, D., K.L. Garcia Hernandez, J.F. Sierra Garcia, B. Delaët, U. Ebels, M.-C. Cyrille, J.-P. Michel, D. Gusakova, L.D. Buda-Prejbeanu, B. Dieny, B. Ocker, J. Langer and W. Maas

Poster: International Colloquium on Magnetic Films and Surfaces, Berlin (Germany), Jul. 20-24 2009

Time domain studies of spin torque oscillators based on MgO tunnel junctions

Houssameddine, D., J.-P. Michel, K. Garello, P. Vincent, U. Ebels, B. Delaët, S.H. Florez, J.A. Katine, D. Mauri, A. Zeltser, O. Ozatay, L. Folks, B.D. Terris, B. Viala, B. Dieny and M.-C. Cyrille

Oral: Intermag Conference, Sacramento (USA), May 4-8 2009

Time domain studies of spin torque oscillators based on MgO tunnel junctions

Houssameddine, D., J.F. Sierra Garcia, K. Garello, J.-P. Michel, U. Ebels, B. Delaët, B. Dieny, M.-C. Cyrille, J.A. Katine and D. Mauri

Poster: International Colloquium on Magnetic Films and Surfaces, Berlin (Germany), Jul. 20-24 2009

Non-symmetric magnetic behavior in exchange-biased systems induced by non-collinear coupling

Jiménez, E., J. Camarero, J. Sort, J. Noguès, A. Hoffmann, J.M. García Martín, B. Dieny and R. Miranda

Poster: International Conference on Magnetism, Karlsruhe (Germany), Jul. 26-31 2009

Emergence of non-collinear anisotropies from interfacial magnetic frustration in exchange bias systems

Jiménez, E., J. Camarero, J. Sort, J. Noguès, N. Mikuszeit, A. Hoffmann, J.M. García Martín, B. Dieny and R. Miranda

Poster: International Colloquium on Magnetic Films and Surfaces, Berlin (Germany), Jul. 20-24 2009

Frustration-induced anisotropies in exchange bias systems

Jiménez, E., J. Camarero, J. Sort, J. Noguès, N. Mikuszeit, A. Hoffmann, J.M. García Martín, B. Dieny and R. Miranda

Poster: International Conference on Magnetism, Karlsruhe (Germany), Jul. 26-31 2009

Imaging magnetization reversal of exchange bias systems by soft X-ray holography

Jiménez, E., J. Camarero, C. Tieg, J. Vogel, C. Arm, G. Gaudin, E. Gautier, B. Rodmacq, B. Dieny and R. Miranda

Poster: European School on Magnetism, Timisoara (Romania), Sep. 1-10 2009

Imaging magnetization reversal of FM/AFM systems by soft X-ray holography

Jiménez, E., C. Tieg, J. Camarero, J. Vogel, C. Arm, G. Gaudin, E. Gautier, B. Rodmacq, B. Dieny and R. Miranda

Oral: Asociación de Usuarios de Sincrotrón de España, Barcelona (Spain), Sep. 15 2009

Dynamic binding of magnetic domain walls in an exchange-coupled magnetic Pt/Co/Pt/Co/Pt bilayer

Metaxas, P.J., R.L. Stamps, J.-P. Jamet, J. Ferré, B. Rodmacq, V. Baltz and P. Politi
Poster: International Colloquium on Magnetic Films and Surfaces, Berlin (Germany), Jul. 20-24 2009

Dynamic binding of driven domain walls

Metaxas, P.J., R.L. Stamps, J.-P. Jamet, J. Ferré, B. Rodmacq and P. Politi
Oral: Magnet'09, Rome (Italy), Oct. 27-29 2009

Non-destructive domain wall pinning generated by the stray field of periodic array of ferromagnetic nanodots

Metaxas, P.J., P.-J. Zermatten, J.-P. Jamet, J. Ferré, G. Gaudin, B. Rodmacq, A. Schuhl and R.L. Stamps
Poster: International Colloquium on Magnetic Films and Surfaces, Berlin (Germany), Jul. 20-24 2009

Current-induced domain wall motion in ultrathin Pt/Co/AlO_x wires with perpendicular magnetic anisotropy

Moore, T.A., I.M. Miron, G. Gaudin, G. Serret, S. Auffret, B. Rodmacq, A. Schuhl, S. Pizzini, J. Vogel and M. Bonfim
Poster: International Colloquium on Magnetic Films and Surfaces, Berlin (Germany), Jul. 20-24 2009

Influence of oxidation conditions of naturally-oxidized MgO barriers in perpendicular magnetic tunnel junctions

Nistor, L.E., B. Rodmacq, S. Auffret, B. Dieny and C. Ducruet
Poster: European School on Magnetism, Timisoara (Romania), Sep. 1-10 2009

Antiferromagnetic coupling in sputtered MgO tunnel junctions with perpendicular magnetic anisotropy

Nistor, L.E., B. Rodmacq, S. Auffret, A. Schuhl and B. Dieny
Oral: Intermag Conference, Sacramento (USA), May 4-8 2009

Influence of oxidation conditions of naturally-oxidized MgO barriers in perpendicular magnetic tunnel junctions

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Poster: International Colloquium on Magnetic Films and Surfaces, Berlin (Germany), Jul. 20-24 2009

Precessional switching of a thin ferromagnetic film by perpendicularly spin-polarized current pulses

Papusoi, C., U. Ebels, D. Houssameddine, L.D. Buda-Prejbeanu, R.C. Sousa, B. Delaët, M.-C. Cyrille and B. Dieny

Oral: Intermag Conference, Sacramento (USA), May 4-8 2009

High spin-polarization of diffusive currents in epitaxial L1₀ FePt and FePd

Seemann, K.M., M.C. Hickey, V. Baltz, J. Miguel, F. Kronast, W. Kuch, B.J. Hickey and C.H. Marrows

Poster: International Colloquium on Magnetic Films and Surfaces, Berlin (Germany), Jul. 20-24 2009

Imaging magnetization reversal in perpendicular exchange bias systems by soft X-ray holography

Tieg, C., E. Jiménez, J. Camarero, J. Vogel, C. Arm, G. Gaudin, E. Gautier, B. Rodmacq, B. Dieny and R. Miranda

Poster: International Colloquium on Magnetic Films and Surfaces, Berlin (Germany), Jul. 20-24 2009

Magnetic domain imaging of perpendicular exchange-coupled FM/AFM systems by soft X-ray holography

Tieg, C., E. Jiménez, J. Camarero, J. Vogel, C. Arm, G. Gaudin, E. Gautier, B. Rodmacq, B. Dieny and R. Miranda

Oral: Deutschen Physikalischen Gesellschaft Spring Meeting, Dresden (Germany), Mar. 22-27 2009

Structural analysis and magnetic properties of (Pt/Co)₃/Pt_{tPt}/IrMn multilayers

Zarefy, A., R. Lardé, L. Lechevallier, J.-M. Le Breton, V. Baltz, B. Rodmacq and B. Dieny

Oral: International Conference on Magnetism, Karlsruhe (Germany), Jul. 26-31 2009

Electronic transport signature of oxygen in fully epitaxial Fe/MgO/Fe system: Towards the understanding of the AF coupling for thin barriers

Zermatten, P.-J., F. Bonell, G. Gaudin, S. Andrieu, C. Tiusan, M. Chshiev and A. Schuhl

Oral: International Colloquium on Magnetic Films and Surfaces, Berlin (Germany), Jul. 20-24 2009

2008

INVITED PRESENTATIONS

Design of new spintronic materials

Butler, W.H. and M. Chshiev

International Workshop on Magnetic Single Nano-Object, Nancy (France), Nov. 23-25 2008

Modelling spintronic phenomena

Chshiev, M.

MINATEC Crossroads'08 M4NANO, Grenoble (France), Jun. 24 2008

Voltage dependence of spin transfer torques in magnetic tunnel junctions

Chshiev, M.

MINT Workshop "Materials for Spin Transfer Torque MRAM", Tuscaloosa (USA), Oct. 15 2008

(Ge, Mn) a ferromagnetic semiconductor for spintronics

Devillers, T., M. Jamet, A. Barski, I.S. Yu, V. Baltz, S. Tardif, C. Porret, P. Bayle-Guillemaud, J. Rothman, J. Cibert, S. Cherifi and V. Favre-Nicolin

4th Handai Nanoscience and Nanotechnology International Symposium, Osaka (Japan), Sep. 29-Oct. 1 2008

Magnetic Random Access Memories

Dieny, B.

American Physical Society March Meeting, New Orleans (USA), Mar. 10-14 2008

Spin transfer effects in spintronics devices

Dieny, B., U. Ebels, D. Houssameddine, C. Baraduc, C. Thirion, N. de Mestier, S. Petit, A. Manchon, L.D. Buda-Prejbeanu, M.-C. Cyrille, B. Delaët and A. Vedyayev

3rd Moscow International Symposium on Magnetism, Moscow (Russia), Jun. 20-25 2008

Spintronic devices for memory and logic applications

Dieny, B., R.C. Sousa and G. Prenat

Intermag Conference, Madrid (Spain), May 4-8 2008

Large angle steady-state precession induced by a perpendicular polarizer

Ebels, U.

Spinswitch Workshop, Krakow (Poland), Sep. 3-5 2008

Spin-polarized current-induced RF magnetization dynamics

Ebels, U.

Joint European Magnetic Symposia, Dublin (Ireland), Sep. 14-19 2008

Spin transfer-induced coherent microwave emission with large power from nanoscale MgO tunnel junctions

Ebels, U.

International Workshop on Magnetic Single Nano-Object, Nancy (France), Nov. 23-25 2008

Current-induced domain wall displacements in materials with out-of-plane anisotropy

Gaudin, G., I.M. Miron, T.A. Moore, G. Serret, S. Auffret, B. Rodmacq and A. Schuhl

Colloque Franco-Russe, Moscow (Russia), Dec. 1-2 2008

Large angle out of plane steady precession induced by spin-transfer with perpendicular to plane polarizer

Houssameddine, D.

[American Physical Society March Meeting](#), New Orleans (USA), Mar. 10-14 2008

Les oscillateurs RF spintroniques: Une solution pour les télécoms du futur ?

Houssameddine, D., I. Firastrau, B. Rodmacq, Y. Dahmane, L.D. Buda-Prejbeanu, U. Ebels, B. Dieny, O. Boulle, B. Georges, M. Darques, A. Khvalkovskiy, V. Cros, J. Grollier, C. Deranlot, K. Bouzehouane, F. Petroff, A. Fert, D. Gusakova, J.-P. Michel, B. Delaët, M.-C. Cyrille, P. Vincent, B. Viala, J.-C. Mage and G. Faini

Journées Nationales en Nanosciences et en Nanotechnologies, Grenoble (France), Oct. 20-22 2008

Spin transfer-induced coherent microwave emission with large power from nanoscale MgO tunnel junctions

Houssameddine, D., S.H. Florez, J.A. Katine, J.-P. Michel, U. Ebels, D. Mauri, O. Ozatay, B. Delaët, B. Viala, L. Folks, B.D. Terris and M.-C. Cyrille

53rd International Conference on Magnetism and Magnetic Materials, Austin (USA), Nov. 10-14 2008

Spin transfer torque and thermally-assisted ferromagnetic resonance in magnetic tunnel junctions

Petit, S., N. de Mestier, C. Baraduc, C. Thirion, Y. Liu, M. Li, P. Wang and B. Dieny

Spinswitch Workshop, Krakow (Poland), Sep. 3-5 2008

Spin torque influence on the high frequency magnetization fluctuations in magnetic tunnel junctions

Petit, S., N. de Mestier, C. Thirion, U. Ebels, Y. Liu, M. Li, J. Wang and C. Baraduc

Intermag Conference, Madrid (Spain), May 4-8 2008

Role of interface resonance states on spin-dependent transport in single crystal magnetic tunnel junctions

Schuhl, A., P.-J. Zermatten, G. Gaudin, C. Tiusan, F. Greullet and M. Hehn

SPIE Conference, San Diego (USA), Aug. 10-14 2008

Innovative weak formulation for the Landau-Lifshitz-Gilbert equations

Szabolics, H., J.-C. Toussaint, L.D. Buda-Prejbeanu, F. Alouges, E. Kritsikis and O. Fruchart

Intermag Conference, Madrid (Spain), May 4-8 2008

Microwave-assisted magnetization reversal in individual nanoparticles

Thirion, C., C. Raunfast, T. Crozes, V. Dupuis, B. Dieny and W. Wernsdorfer
53rd International Conference on Magnetism and Magnetic Materials, Austin (USA),
Nov. 10-14 2008

ORAL AND POSTER PRESENTATIONS

Etude thermocinétique de la dynamique de retournement d'aimantation d'une bicouche ferromagnétique/antiferromagnétique

Alvarez-Hérault, J., C. Papusoi, R.C. Sousa, K. Mackay, I.L. Prejbeanu, J.-P. Nozières and B. Dieny

Poster: Colloque Louis Néel, La Grande Motte (France), Sep. 30-Oct. 3 2008

Real-time reversal of a ferromagnetic-antiferromagnetic bilayer pinning direction

Alvarez-Hérault, J., R.C. Sousa, Y. Conraux, C. Ducruet, I.L. Prejbeanu, B. Delaët, M.-C. Cyrille, O. Redon, J.-P. Nozières and B. Dieny

Oral: 53rd International Conference on Magnetism and Magnetic Materials, Austin (USA), Nov. 10-14 2008

Pulse-width dependence of barrier breakdown in MgO magnetic tunnel junctions

Alvarez-Hérault, J., R.C. Sousa, C. Papusoi, Y. Conraux, C. Maunoury, I.L. Prejbeanu, K. Mackay, B. Delaët and B. Dieny

Oral: Intermag Conference, Madrid (Spain), May 4-8 2008

Etude structurale et magnétique par microscopie électronique à transmission de tricouches Pt/Co/Alumine

Arm, C., A. Masseur, P. Bayle-Guillemaud, E. Gautier, B. Rodmacq and B. Dieny

Poster: Colloque Louis Néel, La Grande Motte (France), Sep. 30-Oct. 3 2008

Compensation des interactions dipolaires inter-couches par couplage RKKY pour des nanostructures magnétiques à anisotropie hors du plan

Baltz, V., B. Rodmacq, A. Bollero, B. Dieny, J. Ferré and S. Landis

Poster: Colloque Louis Néel, La Grande Motte (France), Sep. 30-Oct. 3 2008

Etude des diodes NiFe/Al₂O₃ pour l'injection de spin dans le silicium

Benabderrahmane, R., M. Kanoun, N. Bruyant, H. Achard, C. Baraduc and A. Bsiesy

Poster: Colloque Louis Néel, La Grande Motte (France), Sep. 30-Oct. 3 2008

Electrical study of NiFe/Al₂O₃/Si tunnel diodes for magnetic memories

Benabderrahmane, R., M. Kanoun, N. Bruyant, H. Achard, C. Baraduc and A. Bsiesy

Oral: 20th International Conference on Microelectronics, Sharjah (Arab Emirates), Dec. 14-17 2008

Electrical study of NiFe/Al₂O₃/Si tunnel diodes for spintronic devices on silicon

Benabderrahmane, R., M. Kanoun, N. Bruyant, C. Baraduc, H. Achard and A. Bsiesy

Oral: 1st Transalpine Conference on Nanoscience and Nanotechnology, Lyon (France), Oct. 27-29 2008

Caractérisation électrique des diodes NiFe/SiO₂/Si and NiFe/Al₂O₃/Si pour l'injection de spin dans le silicium

Benabderrahmane, R., M. Kanoun, N. Bruyant, C. Baraduc and A. Bsiesy

Oral: 11^{èmes} Journées Nationales du Réseau Doctoral en Microélectronique, Bordeaux (France), May 13-16 2008

Transition de réorientation de l'aimantation dans un film de Pt/Co(0.5nm)/Pt irradié par des ions He

Bergeard, N., J. Ferré, J.-P. Jamet, A. Mougin and B. Rodmacq

Poster: Colloque Louis Néel, La Grande Motte (France), Sep. 30-Oct. 3 2008

Physical and electrical study of Permalloy/Al₂O₃/Si diodes for spin injection

Bruyant, N., R. Benabderrahmane, M. Kanoun, C. Baraduc, H. Achard and A. Bsiesy

Poster: Intermag Conference, Madrid (Spain), May 4-8 2008

Utilization of MEMS tunable inductors in the design of RF voltage-controlled oscillators

Casha, O., I. Grech, J. Micallef, D. Morche, P. Vincent, E. de Foucauld, B. Viala and J.-P. Michel

Poster: 1st Workshop on Information and Communication Technology, Msida (Malta), Nov. 17-18 2008

Study of MEMS ferromagnetic thin films-based tunable inductors

Casha, O., I. Grech, J. Micallef, D. Morche, P. Vincent, E. de Foucauld, B. Viala and J.-P. Michel

Poster: 1st Workshop on Information and Communication Technology, Msida (Malta), Nov. 17-18 2008

Analytical properties of ballistic spin currents and torques in magnetic tunnel junctions

Chshiev, M., A. Kalitsov, A. Manchon, A. Vedyayev and W.H. Butler

Oral: International Workshop on Magnetic Single Nano-Object, Nancy (France), Nov. 23-25 2008

Non-equilibrium properties of spin transfer torque and tunnel magnetoresistance in magnetic tunnel junctions

Chshiev, M., A. Kalitsov, I. Theodonis, N. Kioussis and W.H. Butler

Oral: 53rd International Conference on Magnetism and Magnetic Materials, Austin (USA), Nov. 10-14 2008

Field- and current-induced domain wall propagation in magnetic nanotracks with out-of-plane anisotropy

Cormier, M., A. Mougin, J. Ferré, R. Weil, J.-P. Jamet and B. Rodmacq

Oral: Colloque Louis Néel, La Grande Motte (France), Sep. 30-Oct. 3 2008

Perpendicular magnetic anisotropy at Co/AlO_x interfaces

Dahmane, Y., S. Auffret, U. Ebels, B. Rodmacq and B. Dieny

Oral: Intermag Conference, Madrid (Spain), May 4-8 2008

Oscillation de l'anisotropie magnétique perpendiculaire dans des tricouches Pt/Co/AIO_x

Dahmane, Y., S. Auffret, U. Ebels, B. Rodmacq and B. Dieny

Oral: Colloque Louis Néel, La Grande Motte (France), Sep. 30-Oct. 3 2008

Influence of a spin-polarized current on the thermally-assisted FMR in magnetic tunnel junctions

De Mestier, N., S. Petit, C. Baraduc, C. Thirion, Y. Liu, M. Li, P. Wang and B. Dieny

Poster: International Workshop on Magnetic Single Nano-Object, Nancy (France), Nov. 23-25 2008

Influence d'un courant polarisé en spin sur la résonance ferromagnétique assistée thermiquement dans les jonctions tunnel magnétiques

De Mestier, N., S. Petit, C. Baraduc, C. Thirion, Y. Liu, M. Li, P. Wang and B. Dieny

Poster: Colloque Louis Néel, La Grande Motte (France), Sep. 30-Oct. 3 2008

Influence of dynamic dipolar interactions and micromagnetic structure on the steady-state oscillations induced by a perpendicular polarizer

Delaët, B., D. Houssameddine, I. Firastrau, D. Gusakova, U. Ebels, M.-C. Cyrille, B. Dieny and L.D. Buda-Prejbeanu

Poster: Joint European Magnetic Symposia, Dublin (Ireland), Sep. 14-19 2008

Structural, magnetic and transport properties of self assembled Ge_{1-x}Mn_x nanocolumns in germanium

Devillers, T., M. Jamet, A. Barski, I.S. Yu, V. Baltz, S. Tardif, C. Porret, P. Bayle-Guillemaud, J. Rothman, J. Cibert, S. Cherifi and V. Favre-Nicolin

Oral: Joint European Magnetic Symposia, Dublin (Ireland), Sep. 14-19 2008

Nanocolonnes auto-assemblées de GeMn: Magnétisme et structure

Devillers, T., M. Jamet, A. Barski, I.S. Yu, V. Baltz, S. Tardif, C. Porret, P. Bayle-Guillemaud, J. Rothman, J. Cibert, S. Cherifi, V. Favre-Nicolin and R. Mattana

Poster: Colloque Louis Néel, La Grande Motte (France), Sep. 30-Oct. 3 2008

New write approaches to MRAM

Dieny, B., A. Deac, M. Kerekes, O. Redon, J.-P. Nozières, U. Ebels, I.L. Prejbeanu and R.C. Sousa

Oral: 3rd Moscow International Symposium on Magnetism, Moscow (Russia), Jun. 20-25 2008

Spin-dependent phenomena and their implementation in spintronic devices

Dieny, B., R.C. Sousa, G. Prenat and U. Ebels

Oral: International [Symposium on VLSI Technology-Systems and Applications](#), Hsinchu (Taiwan), Apr. 21-23 2008

Projet ANR/PNANO MagICO: Oscillateurs HF à transfert de spin pour les Télécoms du futur

Ebels, U., D. Cros, B. Delaët, J.-C. Mage and G. Faini

Poster: Journées Nationales en Nanosciences et en Nanotechnologies, Grenoble (France), Oct. 20-22 2008

Towards an ultra-low power, high density and non-volatile ternary CAM

El Baraji, M., V. Javerliac and G. Prenat

Oral: 9th [Non-Volatile Memory Technology Symposium](#), Pacific Grove (USA), Nov. 11-14 2008

Influence de l'oxygène sur la structure et le magnétisme dans des tricouches Si/SiO₂/Pt/Co/AlO_x

Garad, H.M., F. Fettar, A.Y. Ramos, L. Ortega, P. Gambardella, J. Noguès, A. Manchon, S. Auffret, B. Rodmacq and B. Dieny

Poster: Colloque Louis Néel, La Grande Motte (France), Sep. 30-Oct. 3 2008

Injection et détection optique de spins dans des semiconducteurs IV-IV et III-V

Grenet, L., M. Jamet, P. Warin, D. Ferrand, P. Noé, J.-M. Hartmann, B. Rodmacq, S. Auffret and Y. Samson

Oral: Colloque Louis Néel, La Grande Motte (France), Sep. 30-Oct. 3 2008

Spin-polarized current-driven excitations in spin valve nanopillars with a synthetic antiferromagnetic pinned layer

Gusakova, D., D. Houssameddine, B. Delaët, U. Ebels, M.-C. Cyrille, J.-P. Michel, L.D. Buda-Prejbeanu, B. Dieny, B. Ocker, J. Langer and W. Maas

Poster: International Workshop on Magnetic Single Nano-Object, Nancy (France), Nov. 23-25 2008

Coupled excitations and state diagram for spin torque oscillators with a planar free layer and planar SAF pinned layer

Gusakova, D., D. Houssameddine, U. Ebels, M.-C. Cyrille, B. Delaët, B. Dieny and L.D. Buda-Prejbeanu

Poster: Joint European Magnetic Symposia, Dublin (Ireland), Sep. 14-19 2008

Spin-polarized current-induced excitations in coupled magnetic layers

Gusakova, D., D. Houssameddine, U. Ebels, M.-C. Cyrille, B. Delaët, B. Dieny and L.D. Buda-Prejbeanu

Poster: 53rd International Conference on Magnetism and Magnetic Materials, Austin (USA), Nov. 10-14 2008

Diagramme d'état d'un oscillateur planaire à transfert de spin avec couche piégée de type SAF

Gusakova, D., D. Houssameddine, U. Ebels, M.-C. Cyrille, B. Delaët, B. Dieny and L.D. Buda-Prejbeanu

Poster: Colloque Louis Néel, La Grande Motte (France), Sep. 30-Oct. 3 2008

Spin-polarized current-induced excitations in a synthetic antiferromagnet

Gusakova, D., D. Houssameddine, U. Ebels, M.-C. Cyrille, B. Dieny and L.D. Buda-Prejbeanu

Oral: Intermag Conference, Madrid (Spain), May 4-8 2008

Précessions induites par transfert de spin dans une structure antiferromagnétique synthétique piégée

Houssameddine, D., D. Gusakova, B. Delaët, U. Ebels, M.-C. Cyrille, J.-P. Michel, L.D. Buda-Prejbeanu, O. Redon, B. Dieny, B. Ocker, J. Langer and W. Maas
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Spin-polarized current-driven excitations in spin valve nanopillars with a synthetic antiferromagnetic pinned layer

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Role of anisotropies on the asymmetric magnetization reversal behavior in exchange-biased systems

Jiménez, E., J. Camarero, J. Sort, J. Noguès, N. Mikuszeit, J.M. García Martín, A. Hoffmann, B. Dieny and R. Miranda
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Interface characterization of [Pt/Co]-IrMn multilayers by Tomographic Atom Probe: Influence of a Pt spacer between [Pt/Co]_n and IrMn layers

Lardé, R., A. Zarefy, L. Lechevallier, J.-M. Le Breton, B. Rodmacq and B. Dieny
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Effect of antiferromagnetic interlayer coupling on domain wall in a system with perpendicular anisotropy

Metaxas, P.J., J.-P. Jamet, J. Ferré, B. Rodmacq, B. Dieny and R.L. Stamps
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Magnetic domain wall pinning by the stray field of a ferromagnetic dot array

Metaxas, P.J., J.-P. Jamet, J. Ferré, P.-J. Zermatten, G. Gaudin, B. Rodmacq, A. Schuhl and R.L. Stamps
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Piégeage de parois dans une couche magnétique ultra-mince par le champ de fuite créé par un réseau de plots ferromagnétiques

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Poster: Colloque Louis Néel, La Grande Motte (France), Sep. 30-Oct. 3 2008

The domain wall spin torque meter

Miron, I.M., P.-J. Zermatten, G. Gaudin, S. Auffret, B. Rodmacq and A. Schuhl
Oral: International Workshop on Magnetic Single Nano-Object, Nancy (France), Nov. 23-25 2008

Domain wall spin torque meter

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Imaging a single domain wall position by Extraordinary Hall Effect in nanostructured thin films with perpendicular anisotropy

Miron, I.M., P.-J. Zermatten, G. Gaudin and A. Schuhl
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Field- and current-induced domain wall motion in Permalloy nanowires probed by single shot Kerr microscopy

Möhrke, P., T.A. Moore, M. Kläui, S. Krzyk, J. Rhensius, D. Backes, L.J. Heyderman and U. Rüdiger
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Domain wall motion and spin structure transformations in Permalloy nanowires induced by current and field

Moore, T.A., M. Kläui, P. Möhrke, L. Heyne, D. Backes, J. Rhensius, U. Rüdiger, L.J. Heyderman and J. Thiele
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Anisotropie magnétique perpendiculaire dans des structures Pt/Co/Ox et Ox/Co/Pt

Nistor, L.E., B. Rodmacq, S. Auffret, A. Schuhl and B. Dieny
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Magnetization reversal at low current density using a perpendicular polarizer

Papusoi, C., D. Houssameddine, B. Delaët, B. Rodmacq, F. Ponthenier, U. Ebels, R.C. Sousa, M.-C. Cyrille, L.D. Buda-Prejbeanu and B. Dieny
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Predicted and measured permeability variations of bi-layered magnetostrictive/PVDF composite materials for tunable microwave applications

Smaali, R., P. Queffelec, S. de Blasi, K. Garello and B. Viala
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Mesofrequency magnetisation reversal dynamics probed by dynamic magneto-optical and dynamic magnetoresistance measurements

Steinke, N., J. Llandro, B. Hong, T.A. Moore and C.H. Barnes

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Domain wall motion in ferromagnetic wires with perpendicular magnetization

Szambolics, H., J.-C. Toussaint, A. Marty, I.M. Miron and L.D. Buda-Prejbeanu

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Magneto-transport properties of GeMn ferromagnetic thin films grown on GaAs (001)

Yu, I.S., T. Devillers, M. Jamet, A. Barski, V. Baltz, C. Porret, C. Beigné, J. Rithman and J. Cibert

Poster: 5th International Conference on Physics and Applications of Spin-related Phenomena in Semiconductors, Foz do Iguaçu (Brazil), Aug. 3-6 2008

Interface characterization of a [Pt/Co]₃/IrMn multilayer by laser-assisted tomographic atom probe

Zarefy, A., R. Lardé, L. Lechevallier, F. Cuvilly, J.-M. Le Breton, B. Rodmacq and B. Dieny

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Caractérisation des interfaces dans des multicouches [Pt/Co]₃/IrMn par sonde atomique tomographique: Influence de l'insertion d'une couche de Pt à l'interface Ferromagnétique / Antiferromagnétique

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Magneto-transport in a single nano-object with a conductive AFM

Zermatten, P.-J., G. Gaudin and A. Schuhl

Poster: Intermag Conference, Madrid (Spain), May 4-8 2008

The surface electronic structure: A key parameter in low resistance-area single crystal magnetic tunnel junctions

Zermatten, P.-J., I.M. Miron, G. Gaudin, A. Schuhl, F. Greullet, M. Hehn and C. Tiusan

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Role of interface resonance states on spin-dependent transport in single crystal magnetic tunnel junctions

Zermatten, P.-J., I.M. Miron, G. Gaudin, A. Schuhl, F. Greullet, M. Hehn and C. Tiusan

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Influence des états de surface électroniques sur le transport tunnel dans des jonctions Fe/MgO/Fe épitaxiées

Zermatten, P.-J., I.M. Miron, G. Gaudin, A. Schuhl, F. Greullet, M. Hehn and C. Tiusan

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INVITED PRESENTATIONS

Spintronics and nanomagnetism

Dieny, B.

1st Japanese-French Frontiers of Science Symposium, Shanon Village Center (Japan), Jan. 27-29 2007

Spin transfer effects in magnetic nanopillars

Dieny, B., R.C. Sousa, U. Ebels, B. Rodmacq, A. Deac, D. Houssameddine, I. Firastrau and L.D. Buda-Prejbeanu

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New write schemes for magnetic non-volatile memories: Thermally-assisted and spin transfer writing

Dieny, B., R.C. Sousa, I.L. Prejbeanu and J.-P. Nozières

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Large angle out-of-plane steady precession induced by spin transfer with perpendicular-to-plane polarizer

Houssameddine, D., U. Ebels, B. Delaët, B. Rodmacq, I. Firastrau, D. Gusakova, F. Ponthenier, M. Brunet, J.-P. Michel, C. Thirion, L.D. Buda-Prejbeanu, M.-C. Cyrille, O. Redon and B. Dieny

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Spin torque oscillator using a perpendicular polarizer and a planar free layer

Houssameddine, D., U. Ebels, B. Rodmacq, L.D. Buda-Prejbeanu, D. Gusakova, B. Dieny, B. Delaët, I. Firastrau, F. Ponthenier, J.-P. Michel, M.-C. Cyrille, O. Redon and M. Brunet

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Perpendicular polarizer and a planar free layer spin torque oscillator

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Controlling magnetic vortices in circular and elliptical dots using exchange bias

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Heating and cooling dynamics in thermally-assisted MRAM

Sousa, R.C., C. Papisoi, F. Ciortcas-Delille, E. Gapihan, I.L. Prejbeanu, K. Mackay, Y. Conraux, J.-P. Nozières, O. Redon, M. Asbahi and B. Dieny

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Theory of spin transfer in magnetic spiral structures

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ORAL AND POSTER PRESENTATIONS

Improved patterned media for probe-based HAMR

Algré, E., G. Gaudin, A. Bsiesy and J.-P. Nozières

Poster: 10th Joint MMM-Intermag Conference, Baltimore (USA), Jan. 7-11 2007

Recording performances onto nano-imprinted pre-patterned perpendicular magnetic media

Asbahi, M., J. Moritz, B. Dieny and J.-P. Nozières

Oral: Innovative Mass Storage Technologies, Enschede (The Netherlands), Jun. 18-20 2007

Al₂O₃ tunnel barrier as a good candidate for coherent spin injection into silicon

Benabderrahmane, R., M. Kanoun, N. Bruyant, C. Baraduc, H. Achard and A. Bsiesy

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Spin injection into silicon: Silicon integrated magnetic memory

Benabderrahmane, R., M. Kanoun, N. Bruyant, B. Pang, C. Baraduc, H. Achard and A. Bsiesy

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Spin injection into silicon: Silicon integrated magnetic memory

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Magnetization reversal of nanostructured tunnel junctions from pre-patterned substrates

Bollero, A., V. Baltz, B. Negulescu, M. Rickart, J. Vogel, M. Bonfim, S. Landis, P. Freitas and B. Dieny

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Bruyant, N., R. Benabderrahmane, M. Kanoun, B. Pang, C. Baraduc, A. Bsiesy and H. Achard

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Buda-Prejbeanu, L.D., D. Gusakova, U. Ebels, A. Vedyayev and J.-C. Toussaint

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Spin torque oscillator from a micromagnetic point of view

Buda-Prejbeanu, L.D., D. Gusakova, U. Ebels, A. Vedyayev and J.-C. Toussaint

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Composants spintroniques pour applications mémoires, logiques et RF: Statut actuel et perspectives

Dieny, B.

Oral: Observatoire des Micro-Nano-Technologies, Grenoble (France), May 2007

Magnetoresistance in Co/Pt-based perpendicular magnetic tunnel junctions

Ducruet, C., B. Carvello, B. Rodmacq, S. Auffret, G. Gaudin and B. Dieny

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Projet ANR/PNANO "MagICO": Oscillateurs HF à transfert de spin pour les télécoms du futur

Ebels, U., V. Cros, B. Delaët, J.-C. Mage and G. Faini

Poster: Journées Nationales en Nanosciences et en Nanotechnologies, Paris (France), Sep. 25-27 2007

Modélisation des oscillations entretenues par courant polarisé dans une structure à polariseur perpendiculaire

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Micromagnetic investigation of perpendicular spin torque oscillator

Firastrau, I., D. Gusakova, D. Houssameddine, U. Ebels, J.-C. Toussaint and L.D. Buda-Prejbeanu

Oral: Spin Waves Workshop, Saint-Petersburg (Russia), Jun. 16-21 2007

Micromagnetic investigation of perpendicular spin torque oscillator

Firastrau, I., D. Gusakova, D. Houssameddine, U. Ebels, J.-C. Toussaint and L.D. Buda-Prejbeanu

Poster: International Conference on Spintronics Materials and Technology, York (United Kingdom), Aug. 7-10 2007

Numerical investigation of finite size effects on exchange-biased nanostructures

Gabor, M., V. Baltz, A. Bollero, T. Jourdan, J. Sort, B. Rodmacq, F. Lançon and B. Dieny

Oral: 10th Joint MMM-Intermag Conference, Baltimore (USA), Jan. 7-11 2007

Calculation of the spin torque in non-coplanar double spin valve structures FM1/P/FL/FM2

Gusakova, D., U. Ebels, A. Vedyayev, I. Firastrau, D. Houssameddine, B. Dieny and L.D. Buda-Prejbeanu

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Gusakova, D., U. Ebels, A. Vedyayev, I. Firastrau, D. Houssameddine, B. Dieny and L.D. Buda-Prejbeanu

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Micromagnetic and macrospin simulations for the “perpendicular polarizer-planar free layer” spin torque oscillator

Gusakova, D., I. Firastrau, A. Vedyayev, D. Houssameddine, U. Ebels, J.-C. Toussaint, B. Dieny and L.D. Buda-Prejbeanu

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Spin torque in non-coplanar structures F1/P/F2/P/F3

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Spin torque oscillator using a perpendicular polarizer and a planar free layer

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Spin torque oscillator using a perpendicular polarizer

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Poster: European School on Magnetism, Cluj-Napoca (Romania), Sep. 9-18 2007

Précession entretenue hors du plan dans un oscillateur à polariseur perpendiculaire

Houssameddine, D., U. Ebels, B. Rodmacq, C. Thirion, L.D. Buda-Prejbeanu, D. Gusakova, B. Dieny, B. Delaët, I. Firastrau, F. Ponthenier, M. Brunet, J.-P. Michel, M.-C. Cyrille and O. Redon

Poster: Colloque Louis Néel, Lyon (France), Mar. 14-16 2007

Asymmetry reversal phenomena in exchange-biased systems: Role of anisotropies and interfacial magnetic frustration

Jiménez, E., J. Camarero, N. Mikuszeit, R. Miranda, J.M. García Martín, J. Sort, J. Noguès, A. Hoffmann and B. Dieny

Oral: 52nd International Conference on Magnetism and Magnetic Materials, Tampa (USA), Nov. 5-9 2007

Simulations magnétiques atomistiques des effets de dimension latérale réduite sur l'anisotropie d'échange de nanostructures ferro/antiferromagnétiques

Jourdan, T., M. Gabor, V. Baltz, A. Bollero, B. Dieny, A. Marty and F. Lançon
Poster: Colloque Louis Néel, Lyon (France), Mar. 14-16 2007

Electrical study of ferromagnet metal gate MOS diode: Towards a magnetic memory cell integrated on silicon

Kanoun, M., R. Benabderrahmane, C. Duluard, A. Bsiesy, C. Baraduc, N. Bruyant, H. Achard and A. Filipe
Oral: Materials Research Society Spring Meeting, San Francisco (USA), Apr. 9-14 2007

Self-torque induced by local spin transfer effect and lateral spin diffusion in magnetic layer with inhomogeneous magnetization

Lee, K.J. and B. Dieny
Oral: 52nd International Conference on Magnetism and Magnetic Materials, Tampa (USA), Nov. 5-9 2007

Modeling study on the self-consistent feedback between inhomogeneous magnetization and spin torque

Lee, K.J. and B. Dieny
Oral: [American Physical Society March Meeting](#), Denver (USA), Mar. 5-9 2007

X-ray spectroscopy analysis of oxygen-induced perpendicular magnetic anisotropy in Pt/Co/AlO_x trilayers

Manchon, A., L. Lombard, S. Auffret, C. Ducruet, B. Rodmacq, B. Dieny, S. Pizzini, J. Vogel, V. Uhlir, M. Hochstrasser and G. Panaccione
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Impurity-induced resonant spin torque and spin transport in a magnetic tunnel junction

Manchon, A., N. Ryzhanova, A. Vedyayev and B. Dieny
Oral: 10th Joint MMM-Intermag Conference, Baltimore (USA), Jan. 7-11 2007

Theoretical studies of spin transfer torques in magnetic tunnel junctions

Manchon, A., N. Ryzhanova, A. Vedyayev and B. Dieny
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Theoretical investigation of currents and torques in F/AF bilayers

Manchon, A., N. Ryzhanova, A. Vedyayev and B. Dieny
Poster: Colloque Louis Néel, Lyon (France), Mar. 14-16 2007

Spin transfer torque in ferromagnetic/spin spiral bilayers

Manchon, A., N. Ryzhanova, A. Vedyayev and B. Dieny
Poster: 52nd International Conference on Magnetism and Magnetic Materials, Tampa (USA), Nov. 5-9 2007

Creep and flow regimes of magnetic domain wall motion in ultrathin Pt/Co/Pt films with perpendicular anisotropy

Metaxas, P.J., J.-P. Jamet, M. Cormier, A. Mougín, J. Ferré, V. Baltz, B. Rodmacq, B. Dieny and R.L. Stamps

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Metaxas, P.J., J.-P. Jamet, A. Mougín, M. Cormier, J. Adam, J. Ferré, V. Baltz, B. Rodmacq, B. Dieny and R.L. Stamps

Oral: 10th Joint MMM-Intermag Conference, Baltimore (USA), Jan. 7-11 2007

Propagation de parois de domaines sous champ dans des couches ultraminces à anisotropie perpendiculaire: Régimes de "creep" et "visqueux"

Metaxas, P.J., J.-P. Jamet, A. Mougín, M. Cormier, J. Adam, J. Ferré, V. Baltz, B. Rodmacq, B. Dieny and R.L. Stamps

Oral: Colloque Louis Néel, Lyon (France), Mar. 14-16 2007

Imaging a single domain wall position by Extraordinary Hall Effect in nanostructured thin films with perpendicular anisotropy

Miron, I.M., P.-J. Zermatten, G. Gaudin, B. Dieny and A. Schuhl

Oral: 52nd International Conference on Magnetism and Magnetic Materials, Tampa (USA), Nov. 5-9 2007

Imagerie de la structure en domaines par Effet Hall Extraordinaire dans des nanostructures à anisotropie perpendiculaire

Miron, I.M., P.-J. Zermatten, G. Gaudin, I.L. Prejbeanu, B. Rodmacq, J. Moritz and B. Dieny

Poster: Colloque Louis Néel, Lyon (France), Mar. 14-16 2007

Extraordinary Hall effect in CoPt:SiO₂ composite thin films

Moritz, J., I.M. Miron, I.L. Prejbeanu, B. Rodmacq and B. Dieny

Oral: 10th Joint MMM-Intermag Conference, Baltimore (USA), Jan. 7-11 2007

Injection of spin into silicon

Pang, B., R. Benabderrahmane, N. Bruyant, M. Kanoun, H. Achard, C. Baraduc and A. Bsiesy

Poster: Colloque Louis Néel, Lyon (France), Mar. 14-16 2007

Heating and cooling dynamics in thermally-assisted MRAM

Papuso, C., R.C. Sousa, I.L. Prejbeanu, J.-P. Nozières, K. Mackay and B. Dieny

Oral: International Conference on Innovative Mass Storage Technologies, Amsterdam (The Netherlands), Jun. 18-20 2007

Influence du transfert de spin sur les fluctuations d'aimantation dans les jonctions tunnel

Petit, S., C. Baraduc, C. Thirion, U. Ebels, B. Dieny, Y. Liu, M. Li and P. Wang

Oral: Colloque Louis Néel, Lyon (France), Mar. 14-16 2007

Spin torque influence on the noise spectrum of TMR read heads

Petit, S., C. Baraduc, C. Thirion, U. Ebels, Y. Liu, M. Li, P. Wang and B. Dieny
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CMOS/Magnetic hybrid architectures

Prenat, G., M. El Baraji, W. Guo, R.C. Sousa, L.D. Buda-Prejbeanu, B. Dieny, V. Javerliac, J.-P. Nozières, W. Zhao and E. Belhaire
Oral: 14th IEEE International [Conference on Electronics, Circuits and Systems](#), Marrakech (Marocco), Dec. 11-14 2007

Interlayer exchange coupling in single crystal magnetic tunnel junctions studied by electron holography

Snoeck, E., G. Ben Assayag, C. Tiusan, F. Greullet and A. Schuhl
Oral: Materials Research Society Fall Meeting, Boston (USA), Nov. 26-30 2007

Determination of the absolute heat capacity in magnetic tunnel junction nanopillars

Sousa, R.C., C. Papusoi, F. Ciorcas-Delille, L.D. Buda-Prejbeanu, J.-P. Nozières, K. Mackay, O. Redon, A. Astier and B. Dieny
Oral: International Conference on Innovative Mass Storage Technologies, Amsterdam (The Netherlands), Jun. 18-20 2007

Domain wall motion in ferromagnetic wires with perpendicular magnetization

Szabolics, H., J.-C. Toussaint, A. Marty, I.M. Miron and L.D. Buda-Prejbeanu
Poster: 52nd International Conference on Magnetism and Magnetic Materials, Tampa (USA), Nov. 5-9 2007

Finite element approach for 2d micromagnetic systems

Szabolics, H., L.D. Buda-Prejbeanu, J.-C. Toussaint and O. Fruchart
Oral: Consol Conference, Grenoble (France), Oct. 23-24 2007

Towards spin valve magnetization reversal by spin-polarized current injection from an AFM tip

Zermatten, P.-J., G. Gaudin, I.L. Prejbeanu and J.-P. Nozières
Poster: 10th Joint MMM-Intermag Conference, Baltimore (USA), Jan. 7-11 2007

Vers l'écriture/lecture de points mémoires magnétiques par injection de courant sous pointe AFM

Zermatten, P.-J., G. Maris, I.L. Prejbeanu and G. Gaudin
Poster: Colloque Louis Néel, Lyon (France), Mar. 14-16 2007

Influence of magnetic dots on a continuous layer: A new approach for patterned media

Zermatten, P.-J., B. Rodmacq, I.L. Prejbeanu and G. Gaudin
Poster: 10th Joint MMM-Intermag Conference, Baltimore (USA), Jan. 7-11 2007

TAS-MRAM-based non-volatile FPGA logic circuit

Zhao, W.S., E. Belhaire, B. Dieny, G. Prenat and C. Chappert
Oral: International [Conference on Field-Programmable Technology](#), Kitakyushu (Japan), Dec. 12-14 2007

2006

INVITED PRESENTATIONS

Finite size effects on the exchange bias properties of ferromagnetic/antiferromagnetic bilayers

Baltz, V., J. Sort, A. Bollero, S. Landis, B. Rodmacq and B. Dieny
[Intermag Conference](#), San Diego (USA), May 8-12 2006

New write scheme for magnetic non-volatile memories: Thermally-assisted and spin transfer writing

Dieny, B., A. Deac, M. Kerekes, O. Redon, J.-P. Nozières, U. Ebels, I.L. Prejbeanu and R.C. Sousa
International Symposium on Trends in Nanotechnology, Grenoble (France), Sep. 4-8 2006

Thermal and spin torque excitations in MRAM and TMR heads

Dieny, B., S. Petit, A. Manchon, M. Quillot, M. Kerekes, R.C. Sousa, I.L. Prejbeanu, U. Ebels, C. Baraduc, C. Thirion, O. Redon, J.-P. Nozières, Y. Liu, M. Li and J. Wang
French-US Workshop on Spin Electronics, Saint-Pierre de Chartreuse (France), Jun. 12-14 2006

Spin current-induced magnetisation dynamics: Experiments, simulation and applications

Ebels, U.
French-British Spintronex Seminar, Paris (France), Apr. 5 2006

De la dynamique de l'aimantation aux oscillateurs RF spintronique

Ebels, U.
Journée MRAM Espace et Hyperfréquence, Toulouse (France), Mar. 16 2006

Spintronics and technology of components

Manchon, A., B. Dieny and A. Bsiesy
2nd International Nanotechnology Conference on Communication and Cooperation, Washington (USA), May 15 2006

Discrete media made from pre-patterned wafers: A promising route towards ultra-high density magnetic recording

Moritz, J., M. Asbahi, V. Baltz, B. Rodmacq, J.-P. Nozières and B. Dieny
70th Meeting of the Deutschen Physikalischen Gesellschaft, Dresden (Germany), Mar. 27-31 2006

Using exchange bias to control magnetic vortices

Sort, J., K.S. Buchanan, M. Grimsditch, S.H. Chung, V. Novosad, A. Hoffmann, G. Salazar Álvarez, M.D. Baró, B. Dieny and J. Noguès
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Low-power MRAM

Sousa, R.C., M. Kerekes, I.L. Prejbeanu, O. Redon and B. Dieny
Workshop Nemesys: Future non-volatile memory cell concepts for application in 65nm and beyond, Fuveau (France), May 11 2006

Les applications de la spintronique

Sousa, R.C., I.L. Prejbeanu, M. Kerekes, U. Ebels, B. Rodmacq and B. Dieny
Matériaux 2006, Dijon (France), Nov. 13 2006

Thermally-assisted magnetic memories

Sousa, R.C., I.L. Prejbeanu, M. Kerekes, O. Redon, A. Astier, H. Sibuet, U. Ebels, F. Ponthenier, A. Persico, H. Achard, J.-P. Nozières and B. Dieny
19th International Colloquium on Magnetic Films and Surfaces, Sendai (Japan), Aug. 14-18 2006

Heating regimes of thermally-assisted magnetic memories

Sousa, R.C., I.L. Prejbeanu, O. Redon, A. Astier, H. Sibuet and B. Dieny
Morris 2006 Workshop, Chiba (Japan), Jun. 6-8 2006

La dynamique de l'aimantation induite par courant polarisé en spin: Applications, expériences et simulations

Thirion, C., S. Petit, C. Baraduc, U. Ebels and B. Dieny
1^{ères} Journées Scientifiques Hypermag, Tours (France), Feb. 2006

ORAL AND POSTER PRESENTATIONS

Improved patterned media for probe-based HAMR

Algré, E., G. Gaudin, A. Bsiesy and J.-P. Nozières
Oral: Innovative Mass Storage Technologies, Grenoble (France), May 29-31 2006

Improved patterned media for probe-based HAMR

Algré, E., G. Gaudin, A. Bsiesy and J.-P. Nozières
Poster: Morris Workshop on Thermal and Optical Magnetic Materials and Devices, Chiba (Japan), Jun. 6-8 2006

Magnetic recording properties onto nano-imprinted patterned media

Asbahi, M., J. Moritz, J.-P. Nozières, B. Dieny, R.J.M. van de Veerdonk, C. Gourgon and C. Perret
Oral: [Intermag Conference](#), San Diego (USA), May 8-12 2006

Magnetic recording onto nano-imprinted pre-patterned media

Asbahi, M., J. Moritz, J.-P. Nozières, B. Dieny, R.J.M. van de Veerdonk, C. Gourgon and C. Perret
Poster: Joint European Magnetic Symposia, San Sebastian (Spain), Jun. 26-30 2006

Spin torque influence on the noise spectrum of TMR read heads

Baraduc, C., S. Petit, C. Thirion, U. Ebels, Y. Liu, M. Li, J. Wang and B. Dieny
Oral: International School and Workshop, Strasbourg (France), Oct. 10-12 2006

Out-of-plane exchange bias in [Pt/Co]-IrMn nanostructures

Bollero, A., V. Baltz, S. Landis, B. Rodmacq and B. Dieny

Oral: Joint European Magnetic Symposia, San Sebastian (Spain), Jun. 26-30 2006

Exchange bias effect in annealed (Pt/Co)/NiFe systems

Bollero, A., L.D. Buda-Prejbeanu, V. Baltz, B. Rodmacq and B. Dieny

Oral: [Intermag Conference](#), San Diego (USA), May 8-12 2006

Exchange bias in systems composed of coupled ferromagnetic bilayers

Bollero, A., L.D. Buda-Prejbeanu, V. Baltz, J. Sort, B. Rodmacq and B. Dieny

Poster: Innovative Mass Storage Technologies, Grenoble (France), May 29-31 2006

Réalisation d'un nanofil de silicium pour l'étude du transport cohérent en spin

Bruyant, N.

Poster: IEMN Workshop Nanofil, Lille (France), Jun. 5-7 2006

Réalisation d'un nanofil de silicium pour l'étude du transport cohérent en spin

Bruyant, N., D. Peyrade, C. Baraduc, L. Montes and A. Bsiesy

Poster: Réunion finale du GdR SESAME - Electronique de Spin associant magnétisme et semiconducteurs, Palaiseau (France), Oct. 23-24 2006

High-power magnetization precession induced by spin transfer in pinned synthetic antiferromagnetic layers

Deac, A., U. Ebels, Y. Liu, O. Redon, M. Li, S. Petit, P. Wang and B. Dieny

Oral: [Intermag Conference](#), San Diego (USA), Aug. 8-12 2006

High-power magnetization precession induced by spin transfer in pinned synthetic antiferromagnetic layers

Deac, A., U. Ebels, Y. Liu, O. Redon, M. Li, P. Wang and B. Dieny

Oral: International Conference on Magnetism, Kyoto (Japan), Aug. 20-25 2006

Influence of the bias sign on the dynamic modes induced by spin transfer in exchange-biased spin valves

Deac, A., O. Redon, Y. Liu, S. Petit, M. Li, P. Wang and B. Dieny

Poster: [Intermag Conference](#), San Diego (USA), May 8-12 2006

Tailoring hysteresis loops of ferro/antiferromagnetic systems by imprinting different magnetization states in the antiferromagnet

Dieny, B. and V. Baltz

Oral: Joint European Magnetic Symposia, San Sebastian (Spain), Jun. 26-30 2006

Anisotropy crossover in magnetic tunnel junctions

Ducruet, C., A. Manchon, S. Auffret, B. Rodmacq and B. Dieny

Poster: Innovative Mass Storage Technologies, Grenoble (France), May 29-31 2006

Projet ANR/PNANO "MagICO": Oscillateurs HF à transfert de spin pour les télécoms du futur

Ebels, U., V. Cros, B. Delaët, J.-C. Mage and G. Faini

Poster: Journées Nationales en Nanosciences et en Nanotechnologies, Besançon (France), Nov. 6-8 2006

Dynamic state diagram for the spin current-induced magnetization dynamics using a perpendicular polarizer

Ebels, U., I. Firastrau, L.D. Buda-Prejbeanu, C. Thirion and B. Dieny

Poster: International Symposium on Trends in Nanotechnology, Grenoble (France), Sep. 4-8 2006

Influence of the angular-dependent spin polarization $g(\theta)$ on the critical current densities for perpendicular polarizer-planar free layer structures

Ebels, U., I. Firastrau, L.D. Buda-Prejbeanu, J.-C. Toussaint and B. Dieny

Poster: International School & Workshop on Modern Problems of Spin Dynamics, Strasbourg (France), Oct. 10-12 2006

Influence of the angular-dependent spin polarization $g(\theta)$ on the critical current densities for perpendicular polarizer-planar free layer structures

Ebels, U., I. Firastrau, L.D. Buda-Prejbeanu, J.-C. Toussaint and B. Dieny

Poster: International Workshop on Spin Transfer, Nancy (France), Oct. 2-4 2006

Dynamic state diagram for the spin current-induced magnetization dynamics using a perpendicular polarizer

Ebels, U., C. Thirion, I. Firastrau, L.D. Buda-Prejbeanu and B. Dieny

Poster: 19th International Colloquium on Magnetic Films and Surfaces, Sendai (Japan), Aug. 14-18 2006

Metal electrodes work function measurement at deca-nanometer scale using Kelvin probe force microscope: A step forward to the comprehension of deposition techniques impact on devices electrical properties

Gaillard, N., D. Mariolle, F. Bertin, M. Gros-Jean and A. Bsiesy

Oral: Materials Research Society Spring Meeting, San Francisco (USA), Apr. 17-21 2006

Modeling study on the self-consistent feedback between spin torque and inhomogeneous magnetization

Lee, K.J. and B. Dieny

Oral: International Workshop on Spin Transfer, Nancy (France), Oct. 2-4 2006

Interpretation of relationship between CPP-GMR and spin torque amplitude

Manchon, A., N. Strelkov, A. Deac, A. Vedyayev and B. Dieny

Oral: Intermag Conference, San Diego (USA), May 8-12 2006

Linear relationship between spin transfer and magnetoresistance in metallic magnetic multilayers and magnetic tunnel junctions

Manchon, A., N. Strelkov, N. Ryzhanova, A. Vedyayev, B. Dieny and J.C. Slonczewski

Poster: Innovative Mass Storage Technologies, Grenoble (France), May 29-31 2006

Creep and viscous motion of domain walls in ultrathin Pt/Co/Pt films

Metaxas, P.J., J.-P. Jamet, A. Mougin, J. Ferré, V. Baltz, B. Rodmacq, B. Dieny and R.L. Stamps

Oral: Intermag Conference, San Diego (USA), May 8-12 2006

Extraordinary Hall Effect in CoPtSiO₂ composite thin films

Miron, I.M.

Poster: Joint European Magnetic Symposia, San Sebastian (Spain), Jun. 26-30 2006

Tailoring hysteresis loops of ferro/antiferromagnetic systems by imprinting different magnetization states in the antiferromagnet

Noguès, J., J. Sort, S. Brück, A. Hoffmann, K.S. Buchanan, G. Salazar Álvarez, V. Baltz, S.H. Chung, V. Novosad, S. Surinach, J.S. Muñoz, B. Dieny and M.D. Baró

Oral: Joint European Magnetic Symposia, San Sebastian (Spain), Jun. 26-30 2006

New asymmetric reversal mode in ferromagnetic-antiferromagnetic dots due to imprinted displaced vortices

Noguès, J., J. Sort, A. Hoffmann, K.S. Buchanan, S.H. Chung, M. Grimsditch, V. Novosad, G. Salazar Álvarez, M.D. Baró and B. Dieny

Oral: International Conference on Magnetism, Kyoto (Japan), Aug. 20-25 2006

Spin torque influence on the noise spectrum of TMR read heads

Petit, S., C. Baraduc, C. Thirion, U. Ebels, Y. Liu, M. Li, J. Wang and B. Dieny

Oral: International Workshop on Spin Transfer, Nancy (France), Oct. 2-4 2006

Spin torque influence on the noise spectrum of TMR read heads

Petit, S., C. Baraduc, C. Thirion, U. Ebels, Y. Liu, M. Li, J. Wang and B. Dieny

Poster: French-US Workshop on Spin Electronics, Saint-Pierre de Chartreuse (France), Jun. 12-14 2006

Réalisation d'un banc de mesure de bruit large bande

Petit, S., C. Thirion, C. Baraduc, U. Ebels and B. Dieny

Poster: Hypermag, Tours (France), Feb. 1-2 2006

Magnetization dynamics of (Pt/Co)_n/Pt/AF multilayers studied by time-resolved Kerr effect and Kerr microscopy

Pizzini, S., F. Romanens, J. Vogel, F. Yokaichiya, J. Camarero, J. Sort, F. Garcia and B. Dieny

Poster: Joint European Magnetic Symposia, San Sebastian (Spain), Jun. 26-30 2006

Spin transfer in tunnel magnetic junction with resonance states due to impurities

Ryzhanova, N., A. Manchon, B. Dieny and A. Vedyayev

Poster: [Intermag Conference](#), San Diego (USA), May 8-12 2006

Spin transfer in magnetic tunneling and metallic spin valves

Ryzhanova, N., A. Manchon, B. Dieny, A. Vedyayev and N. Strelkov

Poster: French-US Workshop on Spin Electronics, Saint-Pierre de Chartreuse (France), Jun. 12-14 2006

Theoretical study of current-driven spin transfer torque and interlayer exchange coupling in a magnetic tunnel junction

Ryzhanova, N., A. Manchon, B. Dieny and A. Vedyayev

Poster: International Workshop on Spin Transfer, Nancy (France), Oct. 2-4 2006

Exploiting exchange bias length scales to fully tailor double-shifted hysteresis loops

Sort, J., S. Brück, V. Baltz, S. Surinach, J.S. Munoz, B. Dieny, M.D. Baró and J. Noguès

Oral: [Intermag Conference](#), San Diego (USA), May 8-12 2006

Controlling magnetic vortices through exchange bias

Sort, J., K.S. Buchanan, M. Grimsditch, S.H. Chung, V. Novosad, A. Hoffmann, G. Salazar Álvarez, M.D. Baró, B. Dieny and J. Noguès

Oral: [Intermag Conference](#), San Diego (USA), May 8-12 2006

Heating regimes in thermally-assisted MRAM

Sousa, R.C., M. Kerekes, I.L. Prejbeanu, O. Redon, A. Astier, H. Sibuet and B. Dieny

Oral: Innovative Mass Storage Technologies, Grenoble (France), May 29-31 2006

Magnetization reversal of spin valve layers by injection of spin-polarized current under AFM tips

Zermatten, P.-J., I.L. Prejbeanu, G. Gaudin and J.-P. Nozières

Poster: Innovative Mass Storage Technologies, Grenoble (France), Jun. 29-31 2006

Towards spin valve magnetization reversal by spin-polarized current injection from an AFM tip

Zermatten, P.-J., I.L. Prejbeanu, G. Gaudin and J.-P. Nozières

Poster: International Workshop on Spin Transfer, Nancy (France), Oct. 2-4 2006

A non-volatile flip-flop in magnetic FPGA chip

Zhao, W., E. Belhaire, V. Javerliac, C. Chappert and B. Dieny

Poster: International [Conference on Design and Test of Integrated Systems in Nanoscale Technology](#), Tunis (Tunisia), Sep. 5-7 2006

Evaluation of a non-volatile FPGA based on MRAM technology

Zhao, W., E. Belhaire, V. Javerliac, C. Chappert and B. Dieny

Oral: International [Conference on Integrated Circuit Design and Technology](#), Padova (Italy), Aug. 14 2006

Macro-model of spin transfer torque-based magnetic tunnel junction device for hybrid magnetic-CMOS design

Zhao, W., E. Belhaire, Q. Mistral, C. Chappert, V. Javerliac, B. Dieny and E. Nicolle

Oral: International [Behavioral Modelling and Simulation Workshop](#), San Jose (USA), Sep. 14-15 2006

2005

INVITED PRESENTATIONS

New write approaches to MRAM

Dieny, B., A. Deac, M. Kerekes, O. Redon, J.-P. Nozières, U. Ebels, I.L. Prejbeanu and R.C. Sousa

3rd Moscow International Symposium on Magnetism, Moscow (Russia), Jun. 25-30 2005

Magnetization switching in nanopillars using current-perpendicular-to-plane: Thermally-assisted and spin transfer writing

Dieny, B., A. Deac, M. Kerekes, O. Redon, J.-P. Nozières, U. Ebels, I.L. Prejbeanu and R.C. Sousa

International Workshop "Manipulating Quantum Spins and Classical Dots", Les Houches (France), Apr. 26-29 2005

Magnetization switching in nanopillars using-current-perpendicular-to-plane: Thermally-assisted and spin transfer writing

Dieny, B., A. Deac, M. Kerekes, O. Redon, J.-P. Nozières, U. Ebels, L.D. Prejbeanu and R.C. Sousa

6th International Symposium on Physics of Magnetic Materials, Singapore, Sep. 14-16 2005

Patterned media for ultra-high density storage

Moritz, J., M. Asbahi, E. Algré, G. Gaudin, B. Dieny and J.-P. Nozières

3rd Moscow International Symposium on Magnetism, Moscow (Russia), Jun. 25-30 2005

Exchange-biased vortices in submicron ferromagnetic dots

Noguès, J., J. Sort, A. Hoffmann, S.H. Chung, K.S. Buchanan, M. Grimsditch, M.D. Baró and B. Dieny

XXVIII Encontro Nacional de Física da Matéria Condensada, Santos (Brazil), May 10-14 2005

Thermo-magnetic random access memory: A new route for low power applications

Redon, O., M. Kerekes, R.C. Sousa, I.L. Prejbeanu, U. Ebels, H. Sibuet, A. Persico, F. Ponthenier, B. Rodmacq, S. Auffret, X. Hugon, H. Achard and J.-P. Nozières

TAM-RAM Workshop, Nagoya (Japan), Apr. 9 2005

Thermo-magnetic random access memory: A new route for low power applications

Redon, O., I.L. Prejbeanu, R.C. Sousa, M. Kerekes, B. Dieny, J.-P. Nozières and P. Freitas

[Intermag Conference](#), Nagoya (Japan), Apr. 4-8 2005

Exchange-biased vortices in lithographed ferromagnetic-antiferromagnetic dots

Sort, J., A. Hoffmann, S.H. Chung, K.S. Buchanan, G. Salazar Álvarez, M. Grimsditch, M.D. Baró, B. Dieny and J. Noguès

14th International Materials Research Congress, Cancun (Mexico), Aug. 21-25 2005

ORAL AND POSTER PRESENTATIONS

Improved patterned media for probe-based HAMR

Algré, E., G. Gaudin, A. Bsiesy and J.-P. Nozières

Oral: [American Physical Society March Meeting](#), Los Angeles (USA), Mar. 21-25 2005

Improved patterned media for probe-based heat-assisted magnetic recording

Algré, E., G. Gaudin, A. Bsiesy and J.-P. Nozières

Poster: Intermag Conference, Nagoya (Japan), Apr. 4-8 2005

Tailoring size effects on the exchange bias of ferromagnetic-antiferromagnetic nanodots

Baltz, V., J. Sort, S. Landis, B. Rodmacq and B. Dieny

Poster: [American Physical Society March Meeting](#), Los Angeles (USA), Mar. 21-25 2005

Thermal activation effects on the exchange bias of ferromagnetic-antiferromagnetic nanostructures

Baltz, V., J. Sort, S. Landis, B. Rodmacq and B. Dieny

Oral: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Effets de taille finie sur les propriétés d'anisotropie magnétique d'échange

Baltz, V., J. Sort, S. Landis, B. Rodmacq and B. Dieny

Oral: Colloque Louis Néel, Dourdan (France), Sep. 21-23 2005

Evolution of Co/Pt-covered nanolines under magnetic field using coherent soft X-ray resonant magnetic scattering

Beutier, G., F. Livet, A. Marty, G. van der Laan, S. Stanescu, V. Chamard, V. Baltz and P. Warin

Poster: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Exchange bias without antiferromagnetic layer in (Pt/Co multilayer)/Permalloy systems

Bollero, A., V. Baltz, L.D. Buda-Prejbeanu, B. Rodmacq, J. Sort and B. Dieny

Oral: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Exchange bias properties in magnetic multilayered films

Bollero, A., V. Baltz, J. Sort, B. Rodmacq and B. Dieny

Poster: European Marie-Curie Conference, Pisa (Italy), Sep. 28-30 2005

Exchange bias effects in [Pt/Co]-IrMn multilayers with perpendicular anisotropy

Brück, S., J. Sort, V. Baltz, B. Rodmacq, B. Dieny, S. Surinach, J.S. Munoz, M.D. Baró and J. Noguès

Poster: 69th Meeting of the Deutschen Physikalischen Gesellschaft, Berlin (Germany), Mar. 4-9 2005

Size effects in submicronic dots of (Co/Pt)/NiFe with competing out-of-plane and easy-plane anisotropy

Buda-Prejbeanu, L.D., J.-C. Toussaint, B. Rodmacq and B. Dieny

Poster: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Magnetization reversal asymmetry and role of uncompensated spins in perpendicular exchange-coupled systems

Camarero, J., J. Miguel, F. Garcia, F. Romanens, J. Vogel, S. Pizzini, N. Brookes, J. Sort, B. Dieny and J.B. Goedkoop

Oral: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Double barrier magnetic tunnel junctions with GeSbTe thermal barriers for improved thermally-assisted MRAM cells

Cardoso, S., R. Ferreira, F. Silva, L.V. Melo, P. Freitas, R.C. Sousa, O. Redon, M. MacKenzie and J. Chapman

Oral: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Control and selection of the magnetic anisotropy of cobalt nanowires

Darques, M., L. Piraux, A. Encinas, P. Bayle-Guillemaud, A. Popa and U. Ebels

Oral: [Intermag Conference](#), Nagoya (Japan), Apr. 4-8 2005

Interpretation of correlation between switching current asymmetry, average switching current and GMR amplitude

Deac, A., Y. Liu, O. Redon, M. Li, J. Wang, J.-P. Nozières and B. Dieny

Oral: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Novel dynamic modes induced by spin transfer in exchange-biased spin valves

Deac, A., O. Redon, Y. Liu, S. Petit, M. Li, C. Baraduc, J. Wang, J.-P. Nozières and B. Dieny

Poster: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Injection of spin-polarized electrons into silicon: Towards a silicon-based spintronic device

Duluard, C., A. Bsiesy, C. Baraduc, V. Safarov, A. Filipe and A. Francinelli

Poster: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Magnetic random access memory integrated on silicon (the MEMIS project)

Duluard, C., A. Bsiesy, A. Filipe, A. Francinelli, H. Achard and V. Safarov
Poster: 1st International Conference on Memory Technology and Design, Giens (France), May 21-24 2005

Magnetic and electrical characterization of "Ferromagnetic/Insulator/Silicon" diodes

Duluard, C., A. Bsiesy, V. Safarov, A. Filipe and A. Francinelli
Oral: European Materials Research Society Spring Meeting, Strasbourg (France), May 31-Jun. 3 2005

Study of TiN morphology impact on high-k MIM capacitor's electrical properties: Roughness and work function micro analyses

Gaillard, N., L. Pinzelli, D. Mariolle, A. Bsiesy and M. Gros-Jean
Oral: Nouveaux oxydes à forte permittivité dans l'intégration des semiconducteurs, Autrans (France), Jan. 30-Feb. 2 2005

Magnetization processes in hard CoPt films and dots: A pinning mechanism case study by MFM and magnetometry

Ghidini, M., G. Zangari, I.L. Prejbeanu, G. Pattanaik, J. Weston, G. Asti, C. Pernechele, M. Solzi, P. Sabon, L.D. Buda-Prejbeanu and J.-P. Nozières
Oral: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Magnetic tunnel junction compact device model for electrical simulations of spintronic components

Javerliac, V., L.D. Buda-Prejbeanu, F. Bernard-Granger, J.-P. Nozières and B. Dieny
Poster: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Non-linear dynamic effects in micron-size Permalloy lines and their influence on HF filter applications

Korn, T., M. Kerekes, D. Stanescu, P. Xavier and U. Ebels
Poster: [Intermag Conference](#), Nagoya (Japan), Apr. 4-8 2005

Magnetic excitation induced by lateral spin diffusion

Lee, K.J. and B. Dieny
Poster: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Cell-size dependence of switching time and current density in current-induced magnetization switching

Lee, K.J. and B. Dieny
Oral: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Analytical investigation of spin transfer dynamics using a perpendicular-to-plane polarizer

Lee, K.J., O. Redon and B. Dieny
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Relationship between CPP-GMR and current-induced switching

Manchon, A. and B. Dieny

Poster: International Summer School on Spin Electronics, Cargese (France), May 23-Jun. 4 2005

Interpretation of relationship between CPP-GMR and spin torque amplitude

Manchon, A., N. Strelkov, A. Deac, A. Vedyayev and B. Dieny

Poster: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Role of uncompensated spins in perpendicular exchange-coupled systems

Miguel, J., J. Camarero, J. Vogel, F. Garcia, F. Romanens, S. Pizzini, J. Sort, N. Brookes, B. Dieny and J.B. Goedkoop

Oral: Workshop on X-Ray Spectroscopy of Magnetic Solids, Villigen (Switzerland), Oct. 18-20 2005

Discrete media made from pre-patterned wafers: A promising route towards ultra-high density magnetic recording

Moritz, J., M. Asbahi, V. Baltz, J.-P. Nozières and B. Dieny

Poster: 6th International Symposium on Physics of Magnetic Materials, Singapore, Sep. 14-16 2005

Asymmetric magnetization reversal of perpendicular exchange-biased (Pt/Co) multilayers

Romanens, F., S. Pizzini, E. Yokaichiya, M. Bonfim, Y. Pennec, J. Camarero, J. Vogel, J. Sort, F. Garcia, B. Rodmacq and B. Dieny

Oral: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Exchange bias in ferromagnetic-antiferromagnetic nanostructures

Sort, J., V. Baltz, A. Hoffmann, S.H. Chung, K.S. Buchanan, M. Grimsditch, S. Landis, B. Rodmacq, B. Dieny, S. Surinach, J. Noguès and M.D. Baró

Oral: XXX Reunion Biental de la Real Sociedad Espanola de Fisica, Ourense (Spain), Sep. 12-16 2005

Exchange-biased vortices

Sort, J., A. Hoffmann, S.H. Chung, K.S. Buchanan, V. Novosad, M. Grimsditch, M.D. Baró, B. Dieny and J. Noguès

Poster: 2nd Nanospain Workshop, Barcelona (Spain), Mar. 14-17 2005

Magnetization reversal in ferromagnetic-antiferromagnetic dots: Exchange-biased vortices

Sort, J., A. Hoffmann, S.H. Chung, K.S. Buchanan, G. Salazar Álvarez, M. Grimsditch, M.D. Baró, B. Dieny and J. Noguès

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Exchange-biased vortices in lithographed ferromagnetic-antiferromagnetic dots

Sort, J., J. Noguès, M.D. Baró, S.H. Chung, K.S. Buchanan, M. Grimsditch, V. Novosad, A. Hoffmann and B. Dieny

Oral: American Physical Society March Meeting, Los Angeles (USA), Mar. 21-25 2005

Crossover in heating regimes of thermally-assisted magnetic memories

Sousa, R.C., M. Kerekes, I.L. Prejbeanu, O. Redon, B. Dieny, J.-P. Nozières and P. Freitas

Oral: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Pulsed metal-organic chemical vapor deposition of iron oxides and bismuth-iron oxides

Thery, J., T. Baron, C. Dubourdieu, C. Ternon, B. Pelissier, H. Roussel, S. Coindeau and I.L. Prejbeanu

Oral: 207th Electrochemical Society Meeting, Quebec (Canada), May 15-20 2005

Engineering of spin filtering in single and double epitaxial magnetic tunnel junctions

Tiusan, C., M. Sicot, J. Faure-Vincent, F. Greullet, M. Hehn, C. Bellouard, F. Montaigne, S. Andrieu and A. Schuhl

Oral: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Vortex state in high aspect ratio cobalt nanowires

Vila, L., G. Faini, J.-M. George, U. Ebels and L. Piraux

Oral: 50th International Conference on Magnetism and Magnetic Materials, San Jose (USA), Oct. 30-Nov. 3 2005

Structure en domaines et leur dynamique dans les couches couplées par interaction dipolaire

Wiebel, S., J.-P. Jamet, N. Vernier, A. Mougin, J. Ferré, V. Baltz, B. Rodmacq and B. Dieny

Poster: Colloque Louis Néel, Dourdan (France), Sep. 21-23 2005

2004

INVITED PRESENTATIONS

Evidence of spin transfer effects in current-perpendicular-to-plane magnetoresistive heads

Deac, A., K.J. Lee, O. Redon, J.-P. Nozières, B. Dieny, Y. Liu, M. Li and P. Wang
Asia Pacific Data Storage Conference, Taiwan (China), Sep. 27-30 2004

Spin transfer effect in soft current-perpendicular-to-plane spin valves for magnetoresistive heads

Dieny, B., A. Deac, K.J. Lee, Y. Liu, M. Li, J.W. Chang, J. Wang, O. Redon and J.-P. Nozières
Joint European Magnetic Symposia, Dresden (Germany), Sep. 5-10 2004

Current-induced switching in low resistance tunnel junction with magnetic and non-magnetic electrodes: Tunneling and pinhole-dominated conduction regimes

Freitas, P., K. Zhang, Y. Liu, A. Deac, R.C. Sousa, O. Redon, B. Dieny, J.-P. Nozières, J. Ventura and J. Sousa
9th Joint MMM-Intermag Conference, Anaheim (USA), Jan. 5-9 2004

Magnetic switching and excitations due to spin-polarized current in NiFe and CoFe-based nanopillars

Lee, K.J., A. Deac, Y. Liu, M. Li, J.W. Chang, S. Liao, K. Ju, O. Redon, B. Dieny and J.-P. Nozières
9th Joint MMM-Intermag Conference, Anaheim (USA), Jan. 5-9 2004

Spin transfer effects in spin valve pillars for current-perpendicular-to-plane magnetoresistive heads

Lee, K.J., Y. Liu, A. Deac, M. Li, J.W. Chang, S. Liao, K. Ju, O. Redon, B. Dieny and J.-P. Nozières
9th Joint MMM-Intermag Conference, Anaheim (USA), Jan. 5-9 2004

Patterned media from pre-structured wafers: A promising route towards ultra-high density magnetic recording

Moritz, J., B. Dieny, J.-P. Nozières, R. van de Veerdonk, T.M. Crawford and D. Weller
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Exchange bias in nanoparticles

Noguès, J., V. Skumryev, S. Stoyanov, Y. Zhang, G. Hadjipanayis, D. Givord, V. Langlais, J. Sort, S. Doppiu, C. Laurent, B. Dieny, J.S. Munoz, S. Surinach and M.D. Baró
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Out-of-plane exchange bias

Sort, J., F. Garcia, B. Rodmacq, S. Auffret and B. Dieny
Ultrabias Summer School, Biarritz (France), Sep. 12-16 2004

High density applications of the exchange bias phenomena in thin films and patterned nanostructures

Sort, J., V. Baltz, B. Rodmacq and B. Dieny

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Exchange bias effects in systems with perpendicular-to-plane magnetic anisotropy

Sort, J., F. Garcia, V. Baltz, S. Auffret, B. Rodmacq, M. Fraune, G. Güntherodt, M.D. Baró, J. Noguès and B. Dieny

49th Conference on Magnetism and Magnetic Materials, Jacksonville (USA), Nov. 7-11 2004

ORAL AND POSTER PRESENTATIONS

Enregistrement thermomagnétique sous pointe

Algré, E., G. Gaudin and J.-P. Nozières

Oral: Journées de la Matière Condensée, Nancy (France), Aug. 30-Sep. 3 2004

Ferromagnetic-antiferromagnetic exchange-biased systems deposited onto sub-100nm pre-patterned dots

Baltz, V., J. Sort, S. Landis, B. Rodmacq and B. Dieny

Oral: International Symposium on Trends in Nanotechnology, Segovia (Spain), Sep. 13-17 2004

Exchange bias in ferromagnetic-antiferromagnetic bilayers sputtered on pre-patterned 90nm dots

Baltz, V., J. Sort, S. Landis, B. Rodmacq and B. Dieny

Poster: Ultrabias Summer School, Biarritz (France), Sep. 12-16 2004

Stockage magnétique multiniveaux sur media continus et discrets à anisotropie perpendiculaire

Baltz, V., B. Rodmacq and B. Dieny

Poster: Colloque Louis Néel, Autrans (France), Mar. 17-19 2004

Tailoring size effects on the exchange bias (enhancement or reduction) of sub-100nm ferromagnetic-antiferromagnetic nanostructures

Baltz, V., J. Sort, S. Landis, B. Rodmacq and B. Dieny

Oral: Journées Nanosciences Nanotechnologie en Rhône-Alpes, Grenoble (France), Nov. 18-19 2004

Perpendicular multilevel magnetic media sputtered onto continuous and sub-100nm pre-patterned silicon dots

Baltz, V., S. Landis, B. Rodmacq and B. Dieny

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Perpendicular pre-patterned multilevel magnetic media

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Exchange bias in ferromagnetic-antiferromagnetic bilayers sputtered onto pre-patterned 90nm square dots

Baltz, V., J. Sort, S. Landis, B. Rodmacq and B. Dieny

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Ferromagnetic-antiferromagnetic exchange-biased bilayers sputtered on pre-patterned sub-100nm dots

Baltz, V., J. Sort, S. Landis, B. Rodmacq and B. Dieny

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Size effects on exchange bias in sub-100nm ferromagnetic-antiferromagnetic dots deposited onto pre-patterned substrates

Baltz, V., J. Sort, S. Landis, B. Rodmacq and B. Dieny

Poster: International Workshop on Exchange Bias in Magnetic Nanostructures, Anglet (France), Sep. 16-18 2004

Réseaux de plots ferromagnétique/antiferromagnétique sub-100nm à anisotropie planaire

Baltz, V. J. Sort, B. Rodmacq and B. Dieny

Poster: Colloque Louis Néel, Autrans (France), Mar. 17-19 2004

Magnetization reversal study of perpendicular exchange-coupled (Pt/Co)/FeMn films

Camarero, J., J. Miguel, F. Garcia, J. Vogel, S. Pizzini, F. Romanens, J. Sort, N. Brookes, B. Dieny and J.B. Goedkoop

Oral: Joint European Magnetic Symposia, Dresden (Germany), Sep. 5-10 2004

Study of the magnetization reversal of perpendicular exchange-coupled (Pt/Co)_n/FeMn films using soft X-Ray scattering

Camarero, J., J. Miguel, F. Garcia, J. Vogel, S. Pizzini, F. Romanens, J. Sort, N. Brookes, B. Dieny and J.B. Goedkoop

Poster: International Workshop on Exchange Bias in Magnetic Nanostructures, Anglet (France), Sep. 16-18 2004

Anisotropy-dependent asymmetric reversal in exchange-biased systems

Camarero, J., J. Sort, A. Hoffmann, J.M. García Martín, B. Dieny, R. Miranda and J. Noguès

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Precessional reversal of soft magnetic continuous layers

Da Cas Viegas, A., M. Kerekes, D. Stanescu, U. Ebels, P. Xavier, G. Suran, L.S. Dornelles and R.L. Sommer

Oral: 9th Joint MMM-Intermag Conference, Anaheim (USA), Jan. 5-9 2004

Frequency domain studies of CoZr continuous thin films and FeNi wires using coplanar transmission lines

Da Cas Viegas, A., M. Kerekes, D. Stanescu, P. Xavier, G. Suran and U. Ebels

Poster: 5th International Symposium on Metallic Multilayers, Boulder (USA), Jun. 8-11 2004

Spin torque effect in spin valve pillars for CPP-GMR heads

Deac, A., K.J. Lee, Y. Liu, O. Redon, P. Wang, B. Dieny and J.-P. Nozières

Poster: Ultrabias Summer School, Biarritz (France), Sep. 12-16 2004

Current-induced switching in magnetic memory devices

Deac, A., K.J. Lee, J.W. Chang, R.C. Sousa, O. Redon, S. Liao, C.P. Chen, B. Dieny and J.-P. Nozières

Oral: 9th Joint MMM-Intermag Conference, Anaheim (USA), Jan. 5-9 2004

Spin transfer in Cu and Ag laminated spin valves for CPP-MR heads

Deac, A., K.J. Lee, Y. Liu, M. Li, J.W. Chang, S. Liao, K. Ju, B. Dieny, O. Redon and J.-P. Nozières

Poster: 5th International Symposium on Metallic Multilayers, Boulder (USA), Jun. 8-11 2004

Spin transfer in spin valves for CPP-GMR heads

Deac, A., K.J. Lee, Y. Liu, O. Redon, M. Li, J. Wang, J.-P. Nozières and B. Dieny

Poster: Journées de la Matière Condensée, Nancy (France), Aug. 30-Sep. 3 2004

Electromigration réversible dans des barrières tunnels à forte topologie

Deac, A., Z. Zhang, R.C. Sousa, O. Redon, P. Freitas, B. Dieny and J.-P. Nozières

Poster: Colloque Louis Néel, Autrans (France), Mar. 17-19 2004

Controlled electro-migration in non-uniform insulating barriers of low RA magnetic tunnel junctions

Deac, A., X. Zhang, R.C. Sousa, Y. Liu, O. Redon, P. Freitas, B. Dieny and J.-P. Nozières

Oral: 9th Joint MMM-Intermag Conference, Anaheim (USA), Jan. 5-9 2004

Current-driven resistance change in low RA magnetic tunnel junctions with ultra-thin Al-Ox barriers

Deac, A., Z. Zhang, O. Redon, Y. Liu, P. Freitas, B. Dieny and J.-P. Nozières

Oral: 9th Joint MMM-Intermag Conference, Anaheim (USA), Jan. 5-9 2004

L'électronique de spin: Des principes de base aux applications

Dieny, B.

Oral: Journées Nanosciences Nanotechnologie en Rhône-Alpes, Grenoble (France), Nov. 18-19 2004

Spin injection into silicon: A new concept of a magnetic memory integrated on silicon

Duluard, C., A. Bsiesy, A. Filipe, C. Dieppedale and V. Safarov

Oral: 3rd International Conference on Physics and Application of Spin-related Phenomena in Semiconductors, Santa Barbara (USA), Jul. 21-23 2004

AMR read heads for zero-guard band multitrack recording

Firastrau, I., L.D. Buda-Prejbeanu, J.-C. Toussaint and J.-P. Nozières

Poster: Joint European Magnetic Symposia, Dresden (Germany), Sep. 5-10 2004

Couplage macro-micro pour la modélisation numérique des têtes de lecture multi-pistes

Firastrau, I., L.D. Buda-Prejbeanu, J.-C. Toussaint and J.-P. Nozières

Oral: Colloque Louis Néel, Autrans (France), Mar. 17-19 2004

Magnetization reversal in Ni₈₀Fe₂₀/Co₈₀Pt₂₀ bilayers

Ghidini, M., M. Solzi, G. Asti, G. Zangari, S. Auffret, J.-P. Nozières and G. Calestani

Poster: Joint European Magnetic Symposia, Dresden (Germany), Sep. 5-10 2004

Dynamic heating in sub-micron size magnetic tunnel junctions

Kerekes, M., I.L. Prejbeanu, R.C. Sousa, O. Redon, U. Ebels, P. Xavier, J.-P. Nozières and P. Freitas

Oral: Journées Nanosciences Nanotechnologie en Rhône-Alpes, Grenoble (France), Nov. 18-19 2004

Magnetic excitations in wires and continuous thin films studies by inductive pump-probe techniques in the frequency and time domain

Kerekes, M., A. da Cas Viegas, D. Stanescu, U. Ebels, P. Xavier and T. Fournier

Poster: 9th Joint MMM-Intermag Conference, Anaheim (USA), Jan. 5-9 2004

Precessional and relaxational reversal studies in continuous soft layers

Kerekes, M., A. da Cas Viegas, D. Stanescu, P. Xavier and U. Ebels

Poster: Colloque Louis Néel, Autrans (France), Mar. 17-19 2004

Precessional reversal studies in continuous soft layers

Kerekes, M., A. da Cas Viegas, D. Stanescu, P. Xavier, U. Ebels, L.S. Dormelles and R.L. Sommer

Oral: 5th International Symposium on Metallic Multilayers, Boulder (USA), Jun. 8-11 2004

Frequency domain studies of CoZr continuous thin films and FeNi wires using coplanar transmission lines

Kerekes, M., A. da Cas Viegas, D. Stanescu, P. Xavier, G. Suran and U. Ebels

Poster: Colloque Louis Néel, Autrans (France), Mar. 17-19 2004

Dynamic heating in sub-micron size magnetic tunnel junctions with exchange-biased storage layer

Kerekes, M., I.L. Prejbeanu, R.C. Sousa, O. Redon, U. Ebels, P. Xavier, J.-P. Nozières, K. Ounadjela, P. Freitas and C. Baraduc
Oral: 49th Conference on Magnetism and Magnetic Materials, Jacksonville (USA), Nov. 7-11 2004

Dynamic heating in sub-micron size magnetic tunnel junctions with exchange-biased storage layer

Kerekes, M., R.C. Sousa, I.L. Prejbeanu, O. Redon, P. Xavier, J.-P. Nozières, B. Dieny and U. Ebels
Poster: Ultrabias Summer School, Biarritz (France), Sep. 12-16 2004

Domain wall propagation in continuous thin films initiated by precessional reversal

Kerekes, M., D. Stanescu, A. da Cas Viegas, O. Redon, P. Xavier, J.-P. Nozières, B. Dieny and U. Ebels
Poster: Ultrabias Summer School, Biarritz (France), Sep. 12-16 2004

Wide-bandwidth inductive experiments on the dynamics of ferromagnetic thin films and microstructures

Korn, T., M. Kerekes, A. da Cas Viegas, P. Xavier and U. Ebels
Poster: Journées Nanosciences Nanotechnologie en Rhône-Alpes, Grenoble (France), Nov. 18-19 2004

Excitations of incoherent spin waves due to spin transfer torque

Lee, K.J., A. Deac, J.-P. Nozières and B. Dieny
Poster: Ultrabias Summer School, Biarritz (France), Sep. 12-16 2004

Micromagnetic simulation of magnetic excitations due to spin transfer torque

Lee, K.J., A. Deac, O. Redon, J.-P. Nozières and B. Dieny
Poster: Joint European Magnetic Symposia, Dresden (Germany), Sep. 5-10 2004

Micromagnetic simulation of current-induced precessional switching

Lee, K.J., O. Redon, A. Vedyayev, B. Dieny and J.-P. Nozières
Oral: 9th Joint MMM-Intermag Conference, Anaheim (USA), Jan. 5-9 2004

Enhanced spin-flip scattering in the current-perpendicular-to-plane transport through laminated spin valves

Li, M., S. Liao, J.W. Chang, K. Ju, F. Ciorcas-Delille, N. Strelkov, E. Favre-Nicolin and B. Dieny
Oral: 9th Joint MMM-Intermag Conference, Anaheim (USA), Jan. 5-9 2004

Spin transfer effects in current-perpendicular-to-plane magnetoresistive spin valve heads

Liu, Y., M. Li, S. Liao, A. Zheng, J.W. Chang, K. Ju and B. Dieny
Oral: 9th Joint MMM-Intermag Conference, Anaheim (USA), Jan. 5-9 2004

Ecriture assistée thermiquement des mémoires MRAM

Prejbeanu, I.L., V. Kula, K. Ounadjela, R.C. Sousa and O. Redon
Oral: Colloque Louis Néel, Autrans (France), Mar. 17-19 2004

Thermally-assisted writing scheme for low power MRAM

Prejbeanu, I.L., V. Kula, K. Ounadjela, R.C. Sousa and O. Redon
Oral: Joint European Magnetic Symposia, Dresden (Germany), Sep. 5-10 2004

Thermally-assisted switching in exchange-biased storage layer magnetic tunnel junctions

Prejbeanu, I.L., W. Kula, K. Ounadjela, R.C. Sousa, O. Redon, B. Dieny and J.-P. Nozières
Oral: 9th Joint MMM-Intermag Conference, Anaheim (USA), Jan. 5-9 2004

MRAM: From state of the art to advanced generations

Prejbeanu, I.L., R.C. Sousa, O. Redon, B. Dieny and J.-P. Nozières
Oral: Nanoelectronics Materials Conference, Grenoble (France), Apr. 3 2004

Domain wall magnetoresistance in epitaxial Co wires

Prejbeanu, I.L., M. Viret, L.D. Buda-Prejbeanu, U. Ebels and K. Ounadjela
Poster: Joint European Magnetic Symposia, Dresden (Germany), Sep. 5-10 2004

Magnetization dynamics of exchange-biased (Co/Pt) multilayers studied by Kerr magnetometry

Romanens, F., Y. Pennec, J. Sort, J. Vogel, B. Dieny and S. Pizzini
Poster: Joint European Magnetic Symposia, Dresden (Germany), Sep. 5-10 2004

Couplage d'échange et retournement d'aimantation dans (Pt/Co)₅/Pt/FeMn

Romanens, F., Y. Pennec, J. Sort, J. Camarero, J. Vogel, B. Dieny and S. Pizzini
Poster: Colloque Louis Néel, Autrans (France), Mar. 17-19 2004

Magnetization dynamics of (Pt/Co)/Pt/FeMn multilayers studied by Kerr magnetometry and time-resolved Kerr microscopy

Romanens, F., J. Sort, J. Camarero, E. Yokaichiya, Y. Pennec, J. Vogel, B. Dieny and S. Pizzini
Oral: International Workshop on Exchange Bias in Magnetic Nanostructures, Anglet (France), Sep. 16-18 2004

Comparative study of exchange bias properties of ferromagnetic-antiferromagnetic dots of different shapes prepared by different nanostructuring techniques

Sort, J., V. Baltz, H. Glacynska, U. Ebels, S. Landis, B. Rodmacq, M. Giersig, J. Rybczynski and B. Dieny
Poster: 5th International Symposium on Metallic Multilayers, Boulder (USA), Jun. 8-11 2004

Exchange bias effects in submicron dots prepared by nanosphere lithography

Sort, J., H. Glacynska, U. Ebels, M. Giersig, J. Rybczynski and B. Dieny
Poster: 9th Joint MMM-Intermag Conference, Anaheim (USA), Jan. 5-9 2004

Thermal stability of pinned synthetic ferrimagnets with perpendicular magnetic anisotropy

Sort, J., B. Rodmacq, F. Garcia, S. Auffret and B. Dieny

Oral: 9th Joint MMM-Intermag Conference, Anaheim (USA), Jan. 5-9 2004

Tunneling hotspots and heating in magnetic tunnel junctions

Sousa, R.C., I.L. Prejbeanu, D. Stanescu, B. Rodmacq, O. Redon, B. Dieny, J. Wang and P. Freitas

Oral: 9th Joint MMM-Intermag Conference, Anaheim (USA), Jan. 5-9 2004

Magnetoresistance and spin transfer in magnetic tunnel junctions

Vedyaev, A., N. Ryzhanova, N. Strelkov and B. Dieny

Oral: 9th Joint MMM-Intermag Conference, Anaheim (USA), Jan. 5-9 2004

Current perpendicular to plane giant magnetoresistance in laminated nanostructures

Vedyaev, A., I. Zhukov and B. Dieny

Poster: Joint European Magnetic Symposia, Dresden (Germany), Sep. 5-10 2004

Resonance effects in magnetic nanostructures

Zhuravlev, M.Ye., E.Y. Tsymbal, A. Vedyaev, N. Ryzhanova, F. Kanjouri and B. Dieny

Poster: Joint European Magnetic Symposia, Dresden (Germany), Sep. 5-10 2004

2003

INVITED PRESENTATIONS

Introduction to numerical micromagnetism: Application to mesoscopic magnetic systems

Buda-Prejbeanu, L.D.

European School on Magnetism, Brasov (Romania), Sep. 1-10 2003

An overview of Solid State Memories: MRAM, PCRAM, FeRAM

Dieny, B.

Innovative Mass Storage Technologies, Grenoble (France), Sep. 23-24 2003

Functional materials for spin electronics

Dieny, B.

International Symposium on Semiconductor Oxides for UV Optoelectronics, Surface Acoustic and Spintronics, Autrans (France), Sep. 5-7 2003

Spin electronics: Basic phenomena, materials and devices

Dieny, B.

International Summer School on Advanced Microelectronics "Towards Nanoelectronics" MIGAS 2003, Autrans (France), Jun. 14-20 2003

Magnetic switching and excitations due to spin-polarized current in NiFe- and CoFe-based nanopillars

Lee, K.J., A. Deac, Y. Liu, J.W. Chang, S. Liao, K. Ju, O. Redon, B. Dieny and J.-P. Nozières

International Symposium on Magnetism Materials and Applications, Daejeon (South Korea), Dec. 3-6 2003

Ultra-high density magnetic recording using patterned media from pre-structured wafers

Moritz, J., V. Baltz, E. Algré, G. Gaudin, J.-P. Nozières, B. Rodmacq and B. Dieny

Materials Research Society Fall Meeting, Boston (USA), Nov. 30-Dec. 5 2003

Magnetoresistance and spin transfer in magnetic tunnel junctions

Vedyaev, A., N. Ryzhanova, B. Dieny and N. Strelkov

International Symposium on Magnetic Materials and Applications, Daejeon (South Korea), Dec. 3-6 2003

ORAL AND POSTER PRESENTATIONS

Resonant quantum tunneling of the magnetization beyond the giant spin approximation

Anfuso, L., D. Rovai, R. Sessoli, G. Gaudin and J. Villain

Poster: International Conference on Magnetism, Rome (Italy), Jul. 27-Aug. 1 2003

Asymmetric magnetization reversal dynamics in perpendicular exchange-coupled (Pt/Co)_n/FeMn systems

Camarero, J., Y. Pennec, F. Garcia, J. Sort, F. Romanens, S. Pizzini, J. Vogel and B. Dieny

Oral: International Colloquium on Magnetic Films and Surfaces, Madrid (Spain), Jul. 22-25 2003

Precessional reversal dynamics in a spin valve element

Da Cas Viegas, A., D. Stanescu, M. Kerekes, U. Ebels, P. Xavier, T. Fournier, B. Dieny and K. Ounadjela

Poster: Innovative Mass Storage Technologies, Grenoble (France), Sep. 23-24 2003

Direct current switching in sub-micron size magnetic memory devices

Deac, A., K.J. Lee, Y. Liu, J.W. Chang, R.C. Sousa, O. Redon, S. Liao, P. Freitas, B. Dieny and J.-P. Nozières

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Current-induced transitions in low RA magnetic tunnel junctions

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Current-induced switching in magnetic memory devices

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Magnetic memory integrated on silicon

Duluard, C., A. Bsiesy and V. Safarov

Poster: Journées du Groupe de Recherche "Electronique de Spin associant Magnétisme et Semiconducteurs", Nice (France), 2003

Boundary element method and micromagnetism coupling for magneto-resistive heads modeling

Firastrau, I., L.D. Buda-Prejbeanu, J.-C. Toussaint and J.-P. Nozières

Poster: International Conference on Magnetism, Rome (Italy), Jul. 27-Aug. 1 2003

AMR read heads for zero-guardband multitrack recording

Firastrau, I., L.D. Buda-Prejbeanu, J.-C. Toussaint and J.-P. Nozières

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Magnetic characterisation of Ni triangular elements prepared by nanosphere lithography

Glaczynska, H., U. Ebels, J. Rybczynski, W. Kandulski and M. Giersig

Oral: 3rd International Symposium on Scanning Probe Spectroscopy and Related Methods, Poznan (Poland), Jul. 16-19 2003

Magnetic excitations in wires and continuous thin films studied by inductive pump-probe techniques in the frequency and time domain

Kerekes, M., D. Stanescu, A. da Cas Viegas, U. Ebels, P. Xavier and T. Fournier
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Realization and characterization of magnetic media deposited on side-edge of patterned silicon dot arrays

Landis, S., P. Bayle-Guillemaud, B. Rodmacq, V. Baltz and B. Dieny
Oral: International Microprocesses and Nanotechnology Conference, Tokyo (Japan), Oct. 29-31 2003

Fabrication of submicron magnetic line arrays for magnetic force microscopy tip calibration

Landis, S., B. Rodmacq and B. Dieny
Poster: 29th International Conference on Micro- and Nano-Engineering, Cambridge (United Kingdom), Sep. 22-25 2003

Exchange coupling in Ni/NiO nano-composites obtained by reactive milling

Langlais, V., S. Doppiu, J. Sort, B. Dieny, S. Surinach, J.S. Munoz, M.D. Baró and J. Noguès
Poster: International Symposium on Trends in Nanotechnology, Salamanca (Spain), Sep. 15-19 2003

Estimation of the Co nanoparticles size by magnetic measurements in Co/SiO₂ discontinuous multilayers

Micha, J.-S., B. Dieny and J.-R. Regnard
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Patterned media from pre-structured wafers: A promising route towards ultra-high density magnetic recording

Moritz, J., V. Baltz, E. Algré, G. Gaudin, S. Landis, R.J.M. van de Veerdonk, T.M. Crawford, D. Weller, J.-P. Nozières, B. Rodmacq and B. Dieny
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Patterned media from pre-structured wafers: A promising route towards ultra-high density magnetic recording

Moritz, J., V. Baltz, E. Algré, G. Gaudin, J.-P. Nozières, B. Rodmacq, B. Dieny, R.J.M. van de Veerdonk, T.M. Crawford and D. Weller
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Nanometric heterostructures of iron oxides grown by molecular beam epitaxy: Structural and magnetic properties

Moussy, J.-B., S. Gota, M.-J. Guittet, A. Bataille, M. Gautier-Soyer, P. Warin, P. Bayle-Guillemaud, M. Viret, F. Ott, C. Fermon, F. Ciorcas-Delille, B. Dieny, B. Raquet and E. Favre-Nicolin
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Probe recording in MRAM elements using magnetic tips

Murillo, R., D. Edmundson, M.H. Siekman, B. Rodmacq, C.D. Wright and J.C. Lodder
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Large enhancement of perpendicular exchange bias by introduction of an ultra-thin non-magnetic layer between the ferromagnetic and antiferromagnetic layers

Sort, J., F. Garcia, B. Rodmacq, S. Auffret and B. Dieny
Oral: International Colloquium on Magnetic Films and Surfaces, Madrid (Spain), Jul. 22-25 2003

Enhancement of exchange bias through a non-magnetic spacer

Sort, J., F. Garcia, B. Rodmacq, S. Auffret and B. Dieny
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Exchange bias effects in nanosize dots prepared by nanosphere lithography

Sort, J., H. Glacyszynska, U. Ebels, M. Giersig, J. Rybczynski and B. Dieny
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Exchange bias effects in Fe nanoparticles embedded in an antiferromagnetic Cr₂O₃ matrix

Sort, J., V. Langlais, S. Doppiu, B. Dieny, S. Surinach, J.S. Munoz, M.D. Baró, C. Laurent and J. Noguès
Poster: International Symposium on Trends in Nanotechnology, Salamanca (Spain), Sep. 15-19 2003

Pinned synthetic ferrimagnets with perpendicular anisotropy and tunable exchange bias: Promising structures to enhance performance of spin valves and tunnel junctions with perpendicular anisotropy

Sort, J., B. Rodmacq, S. Auffret and B. Dieny
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Bias current heating in spin-dependent tunnel junctions

Sousa, R.C., D. Stanescu, I.L. Prejbeanu, O. Redon, B. Rodmacq, B. Dieny, J. Wang and P. Freitas
Oral: Innovative Mass Storage Technologies, Grenoble (France), Sep. 23-24 2003

Magnetization reversal dynamics in NiO/Co/Cu/NiFe spin valve element

Stanescu, D., A. da Cas Viegas, M. Kerekes, P. Xavier, B. Dieny and U. Ebels
Poster: International Conference on Magnetism, Rome (Italy), Jul. 27-Aug. 1 2003

Magnetization dynamics in spin valve micron-size elements

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Variations of the induced anisotropy in a-CoZr(M) (M= Mo, Ta) films as a function of thickness and deposition parameters

Suran, G., H. Ouahmane, G. Gortais and J.-P. Nozières
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Spatial distribution of current in magnetic tunnel junctions in the presence of impurities in the barrier

Vedyaev, A., F. Kanjouri, N. Strelkov and B. Dieny

Poster: International Colloquium on Magnetic Films and Surfaces, Madrid (Spain), Jul. 22-25 2003

Giant magnetoresistance in magnetic bi-multilayers

Vedyaev, A., I. Zhukov and B. Dieny

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Spin-dependent transport through a magnetic nanoconstriction

Vedyaev, A., M.Ye. Zhuravlev, N. Strelkov and B. Dieny

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Vortices nucleation and annihilation in magnetic nanowires

Vila, L., L. Piraux, J.-M. George, G. Faini, A. Popa and U. Ebels

Poster: International Conference on Magnetism, Rome (Italy), Jul. 27-Aug. 1 2003

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INVITED PRESENTATIONS

Ultra-high density magnetic recording: Towards 1 terabit/inch²

Dieny, B.

Moscow International Symposium on Magnetism, Moscow (Russia), Jun. 20-24 2002

Exchange bias with perpendicular anisotropy in (Pt/Co)_n/FeMn multilayers

Garcia, F., J. Moritz, F. Ernult, S. Auffret, B. Rodmacq, B. Dieny, J. Camarero, Y. Pennec, S. Pizzini and J. Vogel

Intermag Conference, Amsterdam (The Netherlands), Apr. 28-May 2 2002

Patterned media made from pre-etched wafers: A promising route towards ultra-high density magnetic recording

Moritz, J., S. Landis, J.-C. Toussaint, P. Bayle-Guillemaud, B. Rodmacq, G. Casali, A. Lebib, Y. Chen, J.-P. Nozières and B. Dieny

1st North American Perpendicular Magnetic Recording Conference, Coral Gables (USA), Jan. 7-9 2002

ORAL AND POSTER PRESENTATIONS

Assembly of vertical nanomagnets obtained by oblique deposition of magnetic materials on the sidewalls of pre-structured silicon dots

Baltz, V., J. Moritz, S. Landis, B. Rodmacq, S. Auffret, C. Beigné, I.L. Prejbeanu and B. Dieny

Oral: 47th Conference on Magnetism and Magnetic Materials, Tampa (Florida), Nov. 11-15 2002

90°-coupling in NiFe/NiO/Co trilayers

Camarero, J., Y. Pennec, J. Vogel, S. Pizzini, F. Fettar, F. Ernult and B. Dieny

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Effects of swift heavy ion bombardment on magnetic tunnel junction functional properties

Conraux, Y., J.-P. Nozières, V. da Costa, M. Toulemonde and K. Ounadjela

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Magnetization dynamics in magnetic microstructures

Da Cas Viegas, A., D. Stanescu, M. Kerekes, P. Xavier, K. Ounadjela, B. Dieny and U. Ebels

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Influence of the insertion of a layer of Au islands within the NiO layer on the exchange bias of Co/NiO bilayers

Ernult, F., F. Lançon, L. Billard and B. Dieny

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Magnetic simulation of ferromagnetic/antiferromagnetic/ferromagnetic trilayers

Ernult, F., B. Dieny, F. Lançon, L. Billard and J.-R. Regnard

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Magnetization and magneto-transport properties in 90°-exchange-coupled FeNi/NiO/Co trilayers

Fettar, F., F. Garcia, B. Dieny, Y. Pennec, J. Camarero, J. Vogel and S. Pizzini

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Crossover from in-plane to perpendicular anisotropy in (Pt/Co)_n/FeMn multilayers versus n: Evidence for a strong easy-plane anisotropy at Co/FeMn interface

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Oral: 47th Conference on Magnetism and Magnetic Materials, Tampa (USA), Nov. 11-15 2002

Spin valves with perpendicular magnetic anisotropy based on (Co/Pt) multilayers

Garcia, F., F. Fettar, S. Auffret, B. Rodmacq and B. Dieny

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Exchange-biased spin valves with perpendicular magnetic anisotropy based on (Co/Pt) multilayers

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Quantitative interpretation of Current-Perpendicular-to-Plane giant magnetoresistance in laminated spin valves

Li, M., S. Liao, K. Ju, R. Sabiaa, K. Zhang, J. Chang, N. Strelkhov and B. Dieny

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Magnetization reversal dynamics in arrays of submicronic magnetic dots with perpendicular anisotropy

Moritz, J., Y. Pennec, J. Camarero, J. Vogel, S. Pizzini, B. Dieny and J.-P. Nozières

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Theory of orange peel coupling mechanism with perpendicular anisotropy: Application to exchange-biased (Co/Pt) based spin valves

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In-plane perpendicular coupling in NiFe/NiO/Co trilayers

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Crossovers from in-plane to perpendicular anisotropy in magnetic tunnel junctions as a function of the barrier degree of oxidation

Rodmacq, B., S. Auffret, B. Dieny, S. Monso and P. Boyer

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Generalization of the current-perpendicular-to-plane giant magnetoresistance including spin-flip to any multilayered magnetic structures

Strelkov, N., A. Vedyayev and B. Dieny

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Injection of spin-polarized current into a semiconductor from a ferromagnet

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Dependence of coercivity on maximum applied field in dynamic magnetization reversal of Co/NiO bilayers

Vogel, J., J. Camarero, Y. Pennec, M. Bonfim, S. Pizzini, M. Cartier, F. Ernult, F. Fettar and B. Dieny

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