

List of scientific output

July 2016

Olivier Fruchart

Senior Research Scientist (DR2)
Spintec (UMR8191, CEA, CNRS & Univ. Grenoble Alpes)

Lab Director : Lucian PREIBEANU

Mail : <mailto:olivier.fruchart@cea.fr>

Web : [Lab : <http://www.spintec.fr/>]

[Private : <http://perso.neel.cnrs.fr/olivier.fruchart/>] (to be moved)

Table of contents

1. PEER-REVIEWED ARTICLES.....	2
2. INVITED CONFERENCES AND WORKSHOPS.....	8
3. PEER-REVIEWED PROCEEDING.....	11
4. CONTRIBUTED COMMUNICATIONS.....	14
5. CONTRIBUTED COMMUNICATIONS (PRESENTED BY COLLABORATORS)..	18
6. TALKS ; INVITED LECTURES IN RESEARCH SCHOOLS.....	24
7. WORKSHOPS AND SCHOOLS : PARTICIPATIONS.....	30
8. OTHER PUBLICATIONS : CHAPTERS, EDITOR ETC.....	32

In the following sections (articles, invited conferences, etc.), contributions are listed earliest first.

1. Peer-Reviewed articles

TOTAL = 58

Reviews of personal results in journals :

- J. Phys. : Condens. Matter 2

General review articles in journals :

- C. R. Physique 3

Regular articles in journals :

- Science : 1
- Phys. Rev. Lett. : 6
- Appl. Phys. Lett. 9
- Europhys. Lett. : 2
- N. J. Phys.: 1
- Phys. Rev. B Brief & rapid :3
- Phys. Rev. B : 7
- Nanotechnology : 1
- Carbon: 1
- J. Phys. : Condens. Matter 2
- J. Phys. Chem. Lett. 1
- IEEE Trans. Magn.: 1
- Surf. Sci. : 3
- Sci. Rep.: 1

- J. Magn. Magn. Mater. : 7
- J. Appl. Phys. : 2
- Acta Materiala 1
- Ultramicroscopy: 1
- Supercond. Sci. Technol.: 1
- Appl. Surf. Sci. : 1
- Compel : 1
- J. Sol-Gel Sci. Technol.: 1

Under way

- A60. **Hydrogenation/dehydrogenation cycling of epitaxial deposits interfacing Mg to Nb layers**
D. Fruchart, O. Fruchart, G. Girard, L. Ortega, M. Shelyapina, N. Skryabina,
under way.
- A62. **Quantitative characterization of low-moment tips for magnetic force microscopy**
S. Le-Denmat, A. Masseboeuf, D. Philippe, F. Abedi, O. Fruchart
under way.
- A63. **Anisotropic Dzyaloshinskii-Moriya interaction in ultra-thin epitaxial Au/Co/W(110) films**
L. Camosi, O. Fruchart, J. Vogel, M. Belmeguenai, Y. Roussigné, S. Pizzini.
under way.

Submitted

- A61. **Nucleation, imaging and motion of magnetic domain walls in cylindrical nanowires**
S. Da Col, S. Jamet, M. Stano, B. Trapp, S. Le Denmat, L. Cagnon, J. C. Toussaint, O.
Fruchart,
submitted ([hal-01291713](https://hal.archives-ouvertes.fr/hal-01291713))
- A59. **Magnetic domain walls in nanostrips of single-crystalline Fe₄N(001) with fourfold in-plane magnetic anisotropy**
K. Ito, N. Rougemaille, S. Pizzini, S. Honda, N. Ota, T. Suemasu, O. Fruchart,
submitted. ([arXiv:1511.07520](https://arxiv.org/abs/1511.07520))

2016

- A58. **Magnetic Force Microscopy of hard magnetic films**
G. Ciuta, F. Dumas-Bouchiat, N. M. Dempsey, O. Fruchart, **IEEE Trans. Magn.**, in press
([hal-01222463](https://hal.archives-ouvertes.fr/hal-01222463))
- A57. **Manipulating the magnetization direction of transverse domain walls in Permalloy/Ir strips using nanosecond current pulses**
M. Z. Ishaque, V. D. Nguyen, N. Rougemaille, O. Fruchart, S. Pizzini, S. Perl, L. Ranno, J. C. Toussaint, J. Vogel, **J. Magn. Magn. Mater.** 397, 152 (2016) ([hal:00919049](https://hal.archives-ouvertes.fr/hal-00919049))

2015

- A56. **Quantitative analysis of shadow X-ray Magnetic Circular Dichroism Photo-Emission Electron Microscopy**

S. Jamet, S. Da Col, N. Rougemaille, A. Wartelle, A. Locatelli, T. O. Montes, B. Santos Burgos, R. Afid, L. Cagnon, S. Bochmann, J. Bachmann, O. Fruchart, J.C. Toussaint, **Phys. Rev. B** 92, 144428 (2015) ([hal:1506.02866](https://hal.archives-ouvertes.fr/hal-01201764))

- A45. **Third type of magnetic domain wall in permalloy nanostrips**
D. N'Guyen, O. Fruchart, S. Pizzini, J. Vogel, J. C. Toussaint and N. Rougemaille, **Sci. Rep.** 5, 12417 (2015) ([hal:01201764](https://hal.archives-ouvertes.fr/hal-01201764))
- A54. **Magnetic anisotropy and magnetic domain structure in C-doped Mn₅Ge₃**
L.-A. Michez, F. Virost, M. Petit, R. Hayn, L. Notin, O. Fruchart, V. Heresanu, M. Jamet, V. Le Thanh, **J. Appl. Phys.** 118, 043906 (2015) ([hal:01182176](https://hal.archives-ouvertes.fr/hal-01182176))

2014

- A53. **Non-universality of artificial frustrated spin systems**
I. A. Chioar, N. Rougemaille, A. Grimm, O. Fruchart, E. Wagner, M. Hehn, D. Lacour, F. Montaigne, B. Canals,
Phys. Rev. B 90, 064411 (2014) (<http://fr.arxiv.org/abs/1407.7416>)
- A52. **Ordered arrays of magnetic nanowires investigated by polarized small-angle neutron scattering**
T. Maurer, S. Gautrot, F. Ott, G. Chaboussant, F. Zighem, L. Cagnon, O. Fruchart,
Phys. Rev. B 89, 184423 (2014) ([hal:01002369](https://hal.archives-ouvertes.fr/hal-01002369))
- A51. **Observation of Bloch-point domain walls in cylindrical magnetic nanowires**
S. Da Col, N. Rougemaille, S. Jamet, M. Darques, R. Afid, T. O. Montes, B. Santos Burgos, A. Locatelli, L. Cagnon, J. C. Toussaint, and O. Fruchart,
Phys. Rev. B 89 (R), 180405 (2014) (<http://fr.arxiv.org/abs/1311.7368>)
- A50. **Modulating charge density and inelastic optical response in graphene by atmospheric pressure localized intercalation through wrinkles**
A. Kimouche, O. Renault, S. Samacidar, C. Winkelmann, O. Fruchart, J. Coraux.
Carbon 68, 73 (2014) (<http://fr.arxiv.org/abs/1311.1357>)

2013

- A49. **Growth and micromagnetism of self-assembled epitaxial fcc(111) cobalt dots**
O. Fruchart, A. Masseboeuf, J. C. Toussaint, P. Bayle-Guillemaud,
J. Phys. Condens. Matter. 25, 496002 (2013). (<http://fr.arxiv.org/abs/1309.0793>)

2012

- A48. **Perpendicular magnetic anisotropy of cobalt films in contact with graphene**
N. Rougemaille, A. T. N'Diaye, J. Coraux, C. Vo-Van, O. Fruchart, A. K. Schmid,
Appl. Phys. Lett. 101, 142403(2012). (<http://hal.archives-ouvertes.fr/hal-00739780>)
- A47. **Air-protected epitaxial graphene / ferromagnet hybrids prepared by chemical vapor deposition and intercalation**
J. Coraux, A. T. N'Diaye, N. Rougemaille, C. Vo-Van, A. Kimouche, H.X. Yang, M. Chshiev, N. Bendiab, O. Fruchart, A. K. Schmid,
J. Phys. Chem. Lett. 3 (15), 2059 (2012). (<http://hal.archives-ouvertes.fr/hal-00720428>)
- A46. **Phase diagram of magnetic domain walls in spin-valve nano-stripes**
N. Rougemaille, V. Uhler, O. Fruchart, S. Pizzini, J. Vogel, J. C. Toussaint
Appl. Phys. Lett. 100 (17), 172404 (2012) (<http://fr.arxiv.org/abs/1203.0192>)
- A45. **Micromagnetic study of flux-closure states in Fe dots using quantitative Lorentz Microscopy**

A. Massboeuf, O. Fruchart, F. Cheynis, N. Rougemaille, J. C. Toussaint, A. Marty, P. Bayle-Guillemaud,
Ultramicroscopy 115, 24-36 (2012) (<http://fr.arxiv.org/abs/1105.6295>).

- A44. **Current-induced domain wall motion and magnetization dynamics in CoFeB/Cu/Co nanostripes**
 V. Uhlíř, J. Vogel, N. Rougemaille, O. Fruchart, Z. Ishaque, V. Cros, J. Camarero, J.C. Cezar, F. Sirotti and S. Pizzini
J. Phys.: Condens. Matter 24, 024213 (2012). (<http://hal.archives-ouvertes.fr/hal-00655760>)
- A42. **Magnetostatics of synthetic ferrimagnet elements**
O. Fruchart, B. Diény,
J. Magn. Magn. Mater. 324, 365 (2012) (<http://fr.arxiv.org/abs/1006.5531>)

2011

- A43. **Magnetism of cobalt nanoclusters on graphene on iridium**
 C. Vo-Van, S. Schumacher, J. Coraux, V. Sessi, O. Fruchart, N. B. Brookes, Ph. Ohresser, T. Michely
Appl. Phys. Lett. 99 (14), 142504 (2011) (<http://fr.arxiv.org/abs/1107.2571>)
- A41. **Quasi unidimensional growth of Co nanostructures on a strained Au(111) surface**
 P. Campiglio, V. Repain, C. Chacon, O. Fruchart, J. Lagoute, Y. Girard, S. Rousset,
Surf. Sci. 605, 1165 (2011) (arXiv: <http://hal.archives-ouvertes.fr/hal-00548607/>).
- A40. **Epitaxial graphene prepared by chemical vapor deposition on single crystal thin iridium films on Sapphire**
 C. Vo-Van, A. Kimouche, A. Reserbat-Plantey, O. Fruchart, P. Bayle-Guillemaud, N. Bendjab, J. Coraux,
Appl. Phys. Lett. 98, 181903 (2011). (<http://fr.arxiv.org/abs/1103.3288>)
- A39. **Epitaxial refractory-metal buffer layers with a chemical gradient for adjustable lattice parameter and controlled chemical interface**
O. Fruchart, A. Rousseau, D. Schmaus, A. L'Hoir, R. Haettel, L. Ortega,
Appl. Phys. Lett. 98, 131906 (2011) (<http://fr.arxiv.org/abs/1101.4800>)
- A38. **Reduction of magnetostatic interactions in self-organized arrays of nickel nanowires using Atomic Layer Deposition**
 S. Da Col, M. Darques, O. Fruchart, L. Cagnon,
Appl. Phys. Lett. 98, 112501 (2011) (<http://fr.arxiv.org/abs/1101.1753>)
- A37. **Artificial kagomé arrays of nanomagnets: a frozen dipolar spin ice**
 N. Rougemaille, F. Montaigne, B. Canals, A. Duluard, D. Lacour, M. Hehn, R. Belkhou, O. Fruchart, S. El Moussaoui, A. Bendounan, F. Maccherozzi,
Phys. Rev. Lett. 106, 057209 (2011).
- A36. **Direct observation of Oersted-field-induced magnetization dynamics in magnetic nanostripes**
 V. Uhlíř, S. Pizzini, N. Rougemaille, L. Ranno, V. Cros, E. Jiménez, L. Ranno, O. Fruchart, M. Urbánek, G. Gaudin, J. Camarero, C. Tieg, F. Sirotti, E. Wagner, J. Vogel,
Phys. Rev. B 83, 020406(R) (2011) (arXiv: 1002.1302).
- A35. **Tuning micro-twinned domain sizes and the b-variants content of the adaptative 14-modulated martensite in epitaxial Ni-Mn-Ga films by co-sputtering**
 J. Tillier, D. Bourgault, Ph. Odier, L. Ortega, S. Pairis, O. Fruchart, N. Caillault, L. Carbone,
Acta Mater. 59 (1), 75 (2011) (arXiv: 1011.2303).

2010

- A34. **Ultrathin epitaxial cobalt films on graphene for spintronic investigations and applications**

- C. Vo-Van, Z. Kassir-Bodon, H. Yang, J. Coraux, J. Vogel, S. Pizzini, P. Bayle-Guillemaud, M. Chshiev, L. Ranno, V. Santonacci, P. David, V. Salvador, O. Fruchart, **N. J. Phys.** **12**, 103040 (2010) (arXiv: 1004.1463)
- A33. **Deposition of La₂Zr₂O₇ Film by Chemical Solution Deposition**
Z.M. Yu, P. Odier, S. Morlens, P. Chaudaouët, M. Bacia, L. Zhou, P.X. Zhang, L.H. Jin, C.S. Li, P. David, O. Fruchart, Y.F. Lu,
J. Sol-Gel Sc. Technol. 54(3), 363-370 (2010).
- A32. **Magnetization reversal dynamics in Au/Co/Au(111) ultrathin films : Effect of roughness of the buffer layer**
A. Adanlété Adjanoh, R. Belhi, J. Vogel, O. Fruchart, M. Ayadi, K. Abdelmoula
J. Magn. Magn. Mater. 322, 2498 (2010).
- A31. **Dimensionality cross-over in magnetism: from domain walls (2D) to vortices (1D)**
A. Masseboeuf, O. Fruchart, J. C. Toussaint, E. Kritsikis, L. Buda-Prejbeanu, F. Cheynis, P. Bayle-Guillemaud, A. Marty,
Phys. Rev. Lett. 104, 127204 (2010).
- A30. **Growth mode, magnetic and magneto-optical properties of pulsed-laser-deposited Au/Co/Au(111) trilayers**
C. Clavero, A. Cebollada, G. Armelles, O. Fruchart,
J. Magn. Magn. Mater. 322 (6), 647-652 (2010).
- A29. **Tunable magnetic properties of arrays of Fe(110) nanowires grown on kinetically-grooved W(110) self-organized templates**
B. Borca, O. Fruchart, E. Kritsikis, F. Cheynis, A. Rousseau, Ph. David, C. Meyer, J. C. Toussaint
J. Magn. Magn. Mater. 322 (2), 257-264(2010).

2009

- A28. **Contacting individual Fe(110) dots in a single electron-beam lithography step**
F. Cheynis, H. Haas, T. Fournier, L. Ranno, W. Wernsdorfer, O. Fruchart, J.-C. Toussaint
Nanotech. 20, 285302 (2009).
- A27. **Element-independent growth of atomic nanowires in a corrugated Cu₃N-Cu(110) molecular network**
X. D. Ma, D. I. Bazhanov, O. Fruchart, F. Yildiz, T. Yokoyama, M. Przybylski, V. S. Stepanyuk, J. Kirschner
Phys. Rev. Lett. 102, 205503 (2009).
- A26. **Optimizing the flux coupling between a nanoSQUID and a magnetic particle using atomic force microscope nanolithography**
Z. M. Faucher, P. O. Jubert, O. Fruchart, W. Wernsdorfer, V. Bouchiat,
Supercond. Sci. Technol. **22**, 064010 (2009).
- A25. **Controlled switching of Néel caps in Bloch magnetic domain walls**
F. Cheynis, A. Masseboeuf, O. Fruchart, N. Rougemaille, J. C. Toussaint, R. Belkhou, P. Bayle-Guillemaud, A. Marty,
Phys. Rev. Lett. 102 (10), 107201 (2009), (<http://fr.arxiv.org/abs/0712.3834>).

2008

- A24. **Fast computation of magnetostatic fields by Non-uniform Fast Fourier Transforms**
E. Kritsikis, J.-C. Toussaint, O. Fruchart
Appl. Phys. Lett. **93** (13), 132508 (2008) (arxiv: 0807.2387).
- A23. **Finite Element Formalism for Micromagnetism**
H. Szabolcs, L. D. Buda-Prejbeanu, J. C. Toussaint, O. Fruchart,

CompeL Int J for Computation and Maths in Electrical and Electronic Eng 27 (1), 266-276 (2008).

2007

- A22. Kinetic self-organization of trenched templates for the fabrication of versatile ferromagnetic nanowires
B. Borca, O. Fruchart, Ph. David, A. Rousseau, C. Meyer,
Appl. Phys. Lett. **90**, 142507 (2007) (cond-mat/0701304).
- A21. Growth modes of Fe(110) revisited: a contribution of self-assembly to magnetic materials
O. Fruchart, M. Eleoui, P.-O. Jubert, Ph. David, V. Santonacci, A. Liénard, F. Cheynis, B. Borca, M. Hasegawa, C. Meyer,
J. Phys. : Condens. Mat. **19** (5), 053001 (2007), (topical review, 43p.), cond-mat/0608261.

2006

- A20. Nucleation of magnetisation reversal, from nanoparticles to bulk materials
J. Vogel, J. Moritz, O. Fruchart,
C. R. Physique **7**, 977-987 (2006)

2005

- A19. Magnetism in reduced dimensions
O. Fruchart, A. Thiaville
C. R. Physique **6** (9), 921 (2005).
- A18. Three-dimensional magnetic flux-closure patterns in mesoscopic Fe islands
R. Hertel, O. Fruchart, S. Cherifi, P.-O. Jubert, S. Heun, A. Locatelli, J. Kirschner
Phys. Rev. B **72**, 214409-1-11 (2005).
- A17. Epitaxial self-organization: from surfaces to magnetic materials
O. Fruchart,
C. R. Physique **6** (1), 61-73 (2005). Special Issue on self-organization.

2004

- A16. Angular-dependence of magnetization switching for a multi-domain dot: experiment and simulation
O. Fruchart, J.-C. Toussaint, P.-O. Jubert, W. Wernsdorfer, R. Hertel, J. Kirschner, D. Maily
Phys. Rev. B **70**, **Brief Reports**, 172409 (2004). [Selected for the Virtual Journal of Nanoscale Science & Technology]
- A15. Micromagnetic model of magnetization reversal of magnetically hard ultrathin dots and stripes
M. Eleoui, O. Fruchart, J.-C. Toussaint,
J. Magn. Magn. Mater. **283** (1), 46-58 (2004).
- A14. Nanometers-thick self-organized Fe stripes: bridging the gap between surfaces and magnetic materials
O. Fruchart, M. Eleoui, J. Vogel, P. O. Jubert, A. Locatelli, A. Ballestrazzi,
Appl. Phys. Lett. **84** (8), 1335 (2004).

2003

- A13. X-ray super-cell crystallography of self-organized Co/Au(111) deposits
O. Fruchart, G. Renaud, A. Barbier, M. Noblet, O. Ulrich, J.-P. Deville, F. Scheurer, J. Mane-Mane, V. Repain, G. Baudot, S. Rousset
Europhys. Lett. 63 (2), 275-281 (2003).
- A12. Flux-closure-domain states and demagnetizing energy determination in sub-micron size magnetic dots
P. -O. Jubert, J.-C. Toussaint, O. Fruchart, C. Meyer, Y. Samson
Europhys. Lett. 63 (1), 135-141 (2003).
- A11. Real-Time Monitoring of Growing Nanoparticles
G. Renaud, R. Lazzari, C. Revenant, A. Barbier, M. Noblet, O. Ulrich, F. Leroy, J. Jupille, Y. Borensztein, C. R. Henry, J.-P. Deville, F. Scheurer, J. Mane-Mane, O. Fruchart
Science 300 (5624), 1416-1419 (2003).
- A10. Nucleation and surface diffusion in pulsed laser deposition of Fe on Mo(110)
P. -O. Jubert, O. Fruchart, C. Meyer,
Surf. Sci. 522 (1-3), 8-16 (2003).

2002

- A9. Growth of Tb (0001) on Nb and Mo (110) surfaces
S. Pokrant, O. Fruchart, C. Meyer, L. Ortega,
Surf. Sci. 506 (3), 235-242 (2002).

2001

- A8. A micromagnetic model of non-collective magnetization reversal in ultrathin magnetic dots with in-plane uniaxial anisotropy
O. Fruchart, J.-C. Toussaint, B. Kevorkian,
Phys. Rev. B 63 (17), 174418/1-15 (2001).
- A7. Self-assembled growth of faceted epitaxial Fe(110) islands on Mo(110)
P.-O. Jubert, O. Fruchart, C. Meyer,
Phys. Rev. B 64, 115419/1-10 (2001).

1999

- A6. Self-organized growth of nanosized vertical magnetic Co pillars on Au(111)
O. Fruchart, M. Klaua, J. Barthel, J. Kirschner,
Phys. Rev. Lett. 83 (14), 2769 (1999).
- A5. Enhanced coercivity in sub-micrometer-sized ultrathin epitaxial dots with in-plane magnetization
O. Fruchart, J.-P. Nozières, W. Wernsdorfer, D. Givord, F. Rousseaux, D. Decanini,
Phys. Rev. Lett. 82 (6), 1305-1308 (1999).
- A4. Growth and interface magnetic anisotropy of epitaxial Mo/Fe/Mo(110) and W/Fe/W(110) ultrathin films
O. Fruchart, J.-P. Nozières, D. Givord,
J. Magn. Magn. Mater. 207 (1-3), 158 (1999).
- A3. Arrays of ultrathin monocrystalline submicrometer-sized Fe dots : Néel-Brown relaxation and activation volume
J.-E. Wegrowe, O. Fruchart, J.-P. Nozières, D. Givord, F. Rousseaux, D. Decanini,
J. Appl. Phys. 86 (2), 1028-1034 (1999).

1998

- A2. High coercivity in ultrathin epitaxial micrometer-sized particles with in-plane magnetization : Experiment and numerical simulation
O.Fruchart, J.-P. Nozières, B.Kevorkian, J.-C.Toussaint, D.Givord, F.Rousseaux, D.Decanini, F.Carcenac
Phys. Rev. B 57(4), 2596-2606, (1998).
- A1. Growth modes of W and Mo thin epitaxial (110) films on (11-20) sapphire
O.Fruchart, S.Jaren, J.Rothman
Appl. Surf. Sci. 135(1-4), 218-232 (1998).

2. Invited conferences and workshops

TOTAL = 32 (plus declined : 5)

Type of event :

- International and European events : 14 (plus declined : 5) (+I32)
- National event outside France, with invitation of foreign scientists : 2 (plus declined : 1)
- Large Facility User's meeting 2
- European & transnational workshops : 8
- French event : 4
- Local event : 1

2016

XX.

ECS Fall meeting (International ElectroChemical Society), Symposium « Pits and pores », Honolulu, Oct 2016. (declined, transferred to collaborator)

XX.

EMN meeting on smart and multifunctional materials, 23-26 Aug 2016. (declined, overlap with JEMS2016. Transferred to collaborator)

- I32. Magnetic domain walls in cylindrical nanowires – From opportunities for fundamental science towards 3D storage media ?
SPIE (International Society for Optics and Photonics), Spintronics XI, San Diego, 28 Aug – 1 Sep 2016

2015

- I31. A unified phase diagram of domain walls in 1d systems : from strips to cylindrical wires
International Conference on Magnetism (ICM), Barcelona, 5-10 July 2015
- I30. Quantitative analysis of shadow XMCD-PEEM to unravel 3D magnetic configurations
Workshop FerroX, Diamond Light Source, UK, 11-12 June 2015
- I29. Magnetic domain walls in cylindrical nanowires – From opportunities for fundamental science towards 3D storage media ?
Workshop of the Nordic-Russian training network for magnetic technology, Reykjavik, Iceland, 7-8 April 2015
- I28. Magnetic domain walls in cylindrical nanowires – From opportunities for fundamental science towards 3D storage media ?
French – Brazilian Workshop NanoSECQO, Paris, France, 28-30 January 2015

2014

- I27. Towards monitoring motion of magnetic domain walls in cylindrical nanowires
Workshop on Excitations in Nanomagnetism, Barcelona, Spain, 4-5 Dec 2014.
- I26. Magnetic domain walls in cylindrical nanowires – From opportunities for fundamental science towards 3D storage media ?
International Symposium on Spin-Polarized Electron Physics and Nanomagnetism, Halle (Saale), Germany, 10-13 July 2014.
- I25. Challenges and opportunities for fundamental science on the scheme for a working three-dimensional race-track memory.
[30min] Intermag 2014, Dresden, Germany, 4-8 May 2014.

2013

- I24. Identification and motion of magnetic domain walls in cylindrical nanowires.
[(30min)] Workshop SupraNano : Magnetism, 15 Nov 2013, UPMC, Paris, France.

2012

- XX. BIT's second Annual World Congress of NanoSciences and Technologies 2012, 26-28 Oct 2012, Qingdao (China).

2010

- I23. Self-assembled growth of Co(111) and Fe(110) micron-size epitaxial dots - Application to the micromagnetism of domain walls and vortices
[(30min)] European Conference On Surface Science (ECOSS27), Aug.29th – Sep.3rd 2010, Groningen (The Netherlands).
- XX. Collaborative Conference on Interacting Nanostructures (CCIN) 2010, 19-23 Avril 2010, San Diego (USA).
- I22. XMCD-PEEM monitoring of the field-induced controlled switching of Neel caps in magnetic flux-closure dots
[(45min)] International Workshop on X-Ray spectroscopy of Magnetic Solids (XRMS10), 10-11 June 2010, Diamond Light Source, Oxfordshire (UK).

2009

- I21. Techniques expérimentales appliquées à l'étude du magnétisme des petits systèmes
[(40min)] Rencontre thématique du GdR nanoalliages: "nanoalliages et magnétisme", 19-20 Jan. 2009, Lyon (France).

2008

- I20. Stress in heteroepitaxy as a tool to tailor magnetic nanostructures from the micron size down to below 10nm.
[(1h)] School Nanostress, Sep.30th – Oct 5th, Cargèse.
- I19. On the use of steps and facets for self-assembled magnetic materials.
[(1h30)] School and workshop Nanosteps 2008: "Self-organized nanostructures on crystal surfaces", June 30 – July 12th, Cargèse.

118. Magnetization processes within domain walls.
[(45 min)] Seventh International Workshop on Surface, Interface and Thin Film Physics, 17-20 June, Fudan University, Shanghai, China.

2007

- XX. Invitation déclinée à ARM5 (New Research Trend in Material Science), Sibiu, Roumanie (5-7 septembre).
117. Growth of versatile magnetic nanowires in self-organized kinetically-trenched templates.
[(30min)] International Conference on Solid State Crystals & Polish Conference on Crystal Growth, 20-24 mai 2007 (ICSSC-5 & PCCG-8, Zakopane, Poland).
116. Magnetization patterns and domain wall manipulation in fe/mo(110) self-assembled islands
[(30min)] Atelier 'Surfaces/Interfaces SOLEIL', satellite du user's meeting, 16 janvier 2007 (ST Aubin).

2006

- XX. Invitation déclinée à Intermag 2006 (pendant session de jury du CN section 06).
115. Magnetic nanostructures investigated by LEEM and XMCD-PEEM.
[(30min)] Atelier 'Magnétisme SOLEIL', satellite du user's meeting, 16-17 janvier 2006 (ST Aubin).

2005

114. Les nanocristaux, des systèmes modèles pour le nanomagnétisme..
[30 min] Journées Nanosciences et Nanotechnologie Rhône-Alpes 2005 (JNNRA05), Lyon, France, 24-25 novembre 2005.
113. Surface magnetization patterns of self-assembled Fe(110) dots: from 2D to 3D flux-closure.
[30 min] International symposium on Spin-polarized processes at surfaces, Halle, Germany, 2-4 June 2005.

2004

112. Bimodal growth mode of Fe/cc(110) ; cc=(W,Mo) – Application to the self-organization of thick stripes
[30 min] ICCG/ICVGE (International Conference on Crystal Growth – International Conference on Vapor Growth Deposition), Grenoble, France, 9-13 août 2004.
111. Tailoring the shape of self-assembled nanostructures - Applications to magnetic nanomaterials
[30 min] ECSCD-VIII (International Conference on Surface Crystallography and Dynamics), Segovia, Espagne, 18-21 juillet 2004.

2003

110. Auto-organisation verticale de nanostructures magnétiques : des surfaces vers les matériaux ?
[40 min] JSI2003: Journées Surfaces Interfaces, Lille, France, 29-31 janvier 2003.

2002

19. Self-organized magnetic nanostructures: from surfaces to functional materials ?
[30 min] Nano2002: Surfaces nanostructurées : préparation, caractérisation et application (rencontres CNRS-MPI), Porquerolles, France, 20-24 octobre 2002.
18. Combinaison quantitative GISAXS et STM: un outil pour sonder les interfaces enterrées. Exemple du Co/Au(111)
[45 min] Réunion thématique du GdR Relax : « nouveaux développements dans les analyses structurales aux surfaces et interfaces », Strasbourg, France, 9-11 octobre 2002.

2001

17. Vertical Self-Organization of Epitaxial Magnetic Nanostructures
[30 min] International Symp. on Physics of Magnetic Materials / Int'l Symp. on Advanced Magnetic Technologies (ISPMM/ISAMT2001), Taipei, Taiwan, 13-16 mai 2001.
16. Self-Organized Growth of Nanosized Vertical Magnetic Co Pillars
[30 min] International Conference on Crystal Growth (ICCG13), Kyoto (Japon), 30 juillet-4 août 2001.
15. Vertical Self-Organization of Epitaxial Magnetic Nanostructures
[30 min] 7th Summer School of the Spanish Vacuum Society, « Thin Films of Magnetic Materials », Avila (Espagne), 15-17 juillet 2001.

1999

14. Croissance et magnétisme de nanocolonnes verticales de Co, auto-organisées sur la surface d'Au(111)
[Oral invité (50min)] École sur les processus de croissance sur substrats vicinaux (Programme 'nanomag', European Science Foundation), Dourdan (Paris), 3-4 décembre 1999.
13. Croissance et magnétisme de nanocolonnes verticales de Co, auto-organisées sur la surface d'Au(111)
[20min] Conférence FIM-99 (Frontiers In Magnetism, satellite de LT-22), Stockholm, 12-15 août 1999.
12. Croissance et magnétisme de nanocolonnes verticales de Co, auto-organisées sur la surface d'Au(111)
[25min] Journées d'automne de la SF2M, *symposium towards a 'magneto-electronics'*, Paris, 2-5 novembre 1999.

1998

11. Submicrometer sized epitaxial particles with in-plane magnetization : towards coherent rotation of magnetization ?
[40min] Conférence 'Nanoscale magnetism and transport', Sendai, 19-21 janvier 1998.

3. Peer-reviewed proceeding

TOTAL = 19 (+P20)

List of journals :

- J. Magn. Magn. Mater. : 6

- IEEE Trans. Magn. MAG.: 3
- J. Cryst. Growth : 1
- Surf. Sci.: 1
- Appl. Surf. Sci. : 1
- J. Appl. Phys. : 4
- Mater. Res. Soc. Symp. Proc. : 1
- Phys. Procedia: 1
- Proceedings : 1

2016

- P20. Probing domain walls in cylindrical magnetic nanowires with electron holography**
M. Staño, S. Jamet, J. C. Toussaint, S. Bochmann, J. Bachmann, A. Masseboeuf, C. Gatel, O. Fruchart, [JEMS 2016, Glasgow].

2015

- P19. Broad-band setup for magnetic field-induced domain wall motion in cylindrical nanowires**
A. Wartelle, C. Thirion, R. Afid, S. Da Col, L. Cagnon, J. C. Toussaint, J. Bachmann, S. Bochmann, A. Locatelli, T. O. Mentès, O. Fruchart, **IEEE Trans. Magn.** 51 (11), 4300403 (2015) [Intermag 2015, Beijing]. (<http://fr.arxiv.org/abs/1503.08557>)
- P18. Magnetic induced austenite transformation in Ni-Co-Mn-In Heusler polycrystalline film elaborated by co-sputtering process and MFM characterizations**
G. Crouigneau, D. Bourgault, L. Porcar, P. Courtois, S. Pairis, E. Mossang, E. Eyraud, S. Le-Denmat, O. Fruchart, **J. Appl. Phys.** [MMM 2014, Honolulu], in print.

2013

- P17. Magnetic Nanowires Investigated by Polarized SANS**
Thomas Maurer, Fatih Zighem, Sébastien Gautrot, Frédéric Ott, Grégory Chaboussant, Laurent Cagnon, Olivier Fruchart, **Phys. Procedia** 42, 74 (2013) [9th International Conference on Polarised Neutrons in Condensed Matter Investigations].

2010

- P16. Asymmetric hysteresis of Néel caps in flux-closure magnetic dots**
O. Fruchart, N. Rougemaille, J. C. Toussaint, R. Belkhou, Y. Tian, H. Yu, F. Cheynis, A. Masseboeuf, P. Bayle-Guillemaud, A. Marty, **IEEE Trans. Magn. MAG.** 46(6), 1552 (2010) [MMM-Intermag, Washington, janvier 2010].

2008

- P15. Innovative weak formulation for the Landau-Lifshitz-Gilbert equation**
H. Szabolcs, J.-Ch. Toussaint, L. D. Buda-Preajbeanu, F. Alouges, E. Kirtzikis, O. Fruchart, **IEEE Trans. Magn. MAG.** 44, 11 pt.1, 3153-3156 (2008) [Intermag, Madrid, 4-8 mai 2008].

- P14. Electron Microscopy Investigation of Magnetization Process in Thin Foils and Nanostructures**
A. Masseboeuf, F. Cheynis, J.-Ch. Toussaint, O. Fruchart, C. Gatel, A. Marty, P. Bayle-Guillemaud, Materials Research Society Symposium Proceedings 2007 1026E 1026-C22-04 [MRS meeting, Boston, 2007].
- P13. X-ray photoelectron emission microscopy in combination with x-ray magnetic circular dichroism investigation of size effects on field-induced Néel-cap reversal**
F. Cheynis, N. Rougemaille, R. Belkhou, J.-C. Toussaint, O. Fruchart, **J. Appl. Phys.** 103, 07D915 (2008) [MMM 2008, Tampa, nov 2007].

2007

- P12. Growth and magnetism of self-organized arrays of Fe(110) wires formed by deposition on kinetically grooved W(110)**
B. Borca, O. Fruchart, F. Cheynis, M. Hasegawa, C. Meyer, **Surf. Sci.** 601, 4358-61 (2007) [ECOSS 2006, Paris], cond-mat/0609115.

2006

- P11. Magnetic properties of self-organized lateral arrays of (Fe,Ag)/Mo(110) nanowires**
B. Borca, C. Meyer, O. Fruchart, **J. Appl. Phys.** 99, 08Q514-1-3 (2006) [MMM05, San José, USA].

2002

- P10. Vertical self-organization of epitaxial magnetic nanostructures (Invité)**
O. Fruchart, P.-O. Jubert, C. Meyer, M. Klaua, J. Barthel, J. Kirschner
J. Magn. Magn. Mater. 239 (1-3), 224-227 (2002) [ISPMM/ISAMT 2001, Taipei, Taiwan]
- P9. Self-organized growth of nanosized flat dots and vertical magnetic Co pillars on Au(111) (Invité)**
O. Fruchart, G. Renaud, J.-P. Deville, A. Barbier, F. Scheurer, M. Klaua, J. Barthel, M. Noblet, O. Ulrich, J. Mané-Mané, J. Kirschner
J. Cryst. Growth 237-239 (3), 2035-2040 (2002) [ICCG/ICVGE 2001, Kyoto, Japon]
- P8. Magnetic properties of self-organized Fe nanostripes epitaxially grown on Mo(110)**
P.-O. Jubert, O. Fruchart, C. Meyer
J. Magn. Magn. Mater. 242-245 (1), 565-567 (2002) [JEMS01, Grenoble, France]
- P7. Magnetic Properties of Tb (0001) particles on Nb (110)**
S. Pokrant, C. Meyer, O. Fruchart, A. Sulpice
J. Magn. Magn. Mater. 242-245 (1), 568-571 (2002) [JEMS01, Grenoble, France]

2001

- P6. Growth and magnetism of epitaxial self-assembled Fe nanostructures on a Mo(110) surface**
P.-O. Jubert, O. Fruchart, C. Meyer,
J. Magn. Magn. Mater. 226-230 (2), 1842-1844 (2001) [ICM2000, Recife, Brésil]

2000

- P5. Growth of nanosized self-organized pillars of Co in Au(111) using an alternating deposition process
 O. Fruchart, M. Klaua, J. Barthel, J. Kirschner,
Appl. Surf. Sci. 162-163, 529-536 (2000) [ACSIN5, Aix-en-Provence 1999].

1999

- P4. Arrays of ultrathin Fe(110) 200nm-wide particles investigated by microSQUID measurements
 O. Fruchart, W. Wernsdorfer, J.-P. Nozières, D. Givord, F. Rousseaux, D. Mailly, D. Decanini, F. Carcenac,
J. Magn. Magn. Mater. (198-199) 1, 228-230 (1999). [MML98, Vancouver].

1998

- P3. Magnetization reversal in thin films and small particles
 J.-C. Toussaint, B. Kevorkian, O. Fruchart, J. Voiron
 Rare-Earth Magnets and their Applications. **Proceedings** of the Tenth International Symposium on Magnetic Anisotropy and Coercivity in Rare-Earth Transition Metal Alloys, Dresden, Germany, 1998 (2 vol.), p.1001 (vol.1).
- P2. Soft X-ray resonant magnetic reflectivity study of thin films and multilayers
 J.M. Tonnerre, L. Sève, A. Barbara-Dechelette, F. Bartolome, D. Raoux, V. Chakarian, C.C. Kao, H. Fischer, S. Andrieu, O. Fruchart,
J. Appl. Phys. 83 (11), 6293-6295 (1998). [MMM-Intermag, San Francisco 98].

1997

- P1. Temperature-Driven in-plane anisotropy reorientation in Fe(110) films
 O. Fruchart, J.-P. Nozières, D. Givord,
J. Magn. Magn. Mater. 165 (1-3), 508-511 (1997). [E-MRS Spring Meeting]

4. Contributed communications

TOTAL = 43

Type of contribution :

- Oral, international : 20
- Oral, National : 2
- Poster : 25

2016

- C43. Coding schemes for a domain-wall-based 3D race-track memory
 S. Da-Col, S. Jamet, C. Thirion, L. Cagnon, J. C. Toussaint, O. Fruchart,
[Oral] Joint European Magnetic Symposia 2016, Glasgow, Aug 2016

2015

- C42. Identification and motion of magnetic domain walls in cylindrical nanowires

S. Da-Col, S. Jamet, N. Rougemaille, A. Locatelli, T. O. Mentès, R. Afid, L. Cagnon, J. C. Toussaint, O. Fruchart
[Poster] ICM, Barcelona, July 2015

C41. Quantitative analysis of shadow X-ray Magnetic Circular Dichroism Photo-Emission Electron Microscopy

S. Jamet, S. Da-Col, N. Rougemaille, A. Wartelle, A. Locatelli, T. O. Mentès, B. Santos Burgos, R. Afid, L. Cagnon, O. Fruchart, J. C. Toussaint
[Poster] ICM, Barcelona, July 2015

C40. An extended phase diagram of domain walls with a geometry ranging from flat nanostrips to compact nanowires

S. Jamet, N. Rougemaille, J. C. Toussaint, O. Fruchart
[Poster] International Workshop on Magnetic Nanowires and Nanotubes, Meersburg, May 2015

2013

C39. Combined surface and transmission Photo-Emission Electron Microscopy for the investigation of 3D micromagnetic states

S. Jamet, S. Da Col, S. Jamet, N. Rougemaille, A. Locatelli, T. O. Mentès, B. Santos Burgos, L. Cagnon, O. Fruchart, J. C. Toussaint,
[Oral] MMM, Denver, Nov 2013.

C38. Identification and motion of domain walls in cylindrical nanowires

S. Da Col, S. Jamet, N. Rougemaille, R. Afid, M. Darques, A. Locatelli, T. O. Mentès, B. Santos Burgos, L. Cagnon, J. C. Toussaint, O. Fruchart.
[Oral] MMM, Denver, Nov 2013.

C37. Identification and motion of domain walls in cylindrical nanowires

S. Da Col, S. Jamet, N. Rougemaille, R. Afid, M. Darques, A. Locatelli, T. O. Mentès, B. Santos Burgos, L. Cagnon, J. C. Toussaint, O. Fruchart.
[Oral] Joint European Magnetic Symposia, Aug.2013.

C36. Domain wall nucleation and propagation in cylindrical nanowires

S. Da Col, S. Jamet, N. Rougemaille, R. Afid, M. Darques, A. Locatelli, T. O. Mentès, B. Santos Burgos, L. Cagnon, J. C. Toussaint, O. Fruchart.
[Oral] International Workshop on Magnetic Nanowires and Nanotubes, Kaub (Germany), May 2013.

2012

C35. Vortex and transverse domain walls in nanostripes with absence of inversion symmetry

O. Fruchart, N. Rougemaille, Z. Ishaque, V. Uhlír, S. Pizzini, J. Vogel, J. C. Toussaint, A. Masseboeuf, A. Locatelli, O. Mentès, M. Urbanek, Z. Kassir-Bodon, P. Bayle-Guillemaud.
[Poster] ICMFS, Shanghai (China), Sep. 2012.

C34. Magnetostatic interactions and domain-wall propagation in cylindrical magnetic nanowires

S. Da Col, M. Darques, J.-C. Toussaint, N. Rougemaille, L. Cagnon, O. Fruchart.
[Poster] JEMS, Parma (Italy), Sep.2012.

C33. Phase diagram of vortex versus transverse domain walls in spin valves

O. Fruchart, N. Rougemaille, Z. Ishaque, V. Uhlír, S. Pizzini, J. Vogel, J. C. Toussaint, A. Masseboeuf, A. Locatelli, O. Mentès, M. Urbanek, Z. Kassir-Bodon, P. Bayle-Guillemaud.
[Oral] JEMS, Parma (Italy), Sep.2012.

2010

- c32. Magnetostatics of synthetic ferrimagnet elements**
O. Fruchart, B. Diény
[Poster] Entretiens du centre Jacques Cartier (franco-québécois), Séminaire Nanomagnétisme et électronique de spin, Grenoble, Nov.24-25th 2010.
- c31. Magnetostatics of synthetic ferrimagnet elements**
O. Fruchart, B. Diény
[Oral] JEMS, Krakow (Poland), Aug.2010.
- c30. Perpendicular anisotropy of ultrathin epitaxial cobalt films on graphene**
C. Vo-Van, Z. Kassir-Bodon, H. Yang, J. Coraux, J. Vogel, S. Pizzini, P. Bayle-Guillemaud, M. Chshiev, L. Ranno, V. Santonacci, P. David, V. Salvador, O. Fruchart
[Oral] JEMS, Krakow (Poland), Aug.2010.
- c29. Énergie démagnétisante et barrière d'énergie de plots plats tricouches antiferromagnétiques synthétiques (SyAF)**
O. Fruchart, B. Diény
[Poster] XIII^{ème} Colloque Louis Néel, Albé, 31 mars – 2 avril 2010.
- c28 Growth and magnetism of micron-sized epitaxial self-assembled fcc Co(111) dots**
[Oral] MMM-Intermag, Washington, janvier 2010.
- c27 Controlled switching of Néel caps in flux-closure magnetic dots**
[Oral] MMM-Intermag, Washington, janvier 2010.

2009

- c26 Magnetization processes within domain walls: switching of Néel caps in Fe(110) dots**
[Poster] European Workshop on Self-Organized Nanomagnets, Aussois, France, 29 mars – 3 avril 2009..

2008

- c25. Magnetization processes within domain walls: switching of Néel caps in Fe(110) dots**
[Oral] Joint European Magnetic Symposia (JEMS08), Dublin (Ireland), 14-19 September 2008.

2007

- c24. Cross-over from a magnetic vortex to a Bloch wall of finite length**
[Oral] Magnetic Metallic Multilayers (MML2007), Perth (Australia), 15-19 October 2007.
- c23. Magnetization reversal of Néel caps evidenced by XMCD-PEEM**
[Poster] Magnetic Metallic Multilayers (MML2007), Perth (Australia), 15-19 October 2007.

2006

- c22. Growth and magnetism of self-organized arrays of fe(110) wires formed by deposition on kinetically-grooved W(110)**
[Poster] Workshop 'Nanomagnets by self-organization', Eisenerz (Autriche), 8-12 octobre 2006.
- c21. Three-dimensional magnetization structures in Fe/Mo(110) islands**
[Poster] Workshop 'Nanomagnets by self-organization', Eisenerz (Autriche), 8-12 octobre 2006.
- c20. Réseaux de nanofils de Fe sur des gabarits auto-organisés de W(110)**

[Oral] Journées de la matière condensée (JMC10), Toulouse, 29 août – 1^{er} septembre 2006.

- C19. Structures à fermeture tridimensionnelle de flux dans des plots auto-assemblés micrométriques Fe(110)**
[Poster] Journées de la matière condensée (JMC10), Toulouse, 29 août – 1^{er} septembre 2006.
- C18. Réseaux auto-organisés de nanofils de Fe**
[Poster] Matériaux 2006, Dijon, 13-17 novembre 2006.
- C17. Investigation of three-dimensional magnetic flux-closure patterns in micron-sized self-assembled Fe/Mo(110) dots**
[Oral (15 min)] Nanosea (NANOstructures Self-Assembling), Aix-en-Provence, 2-6 July 2006.
- C16. Growth and magnetic anisotropy of Fe/Mo(110) films with a self-organized uniaxial surface roughness**
[Poster] JEMS06 (Joint European Magnetic Symposia), San Sebastian, 26-30 June 2006.
- C15. Auto-organisation épitaxiale pour le magnétisme**
[Poster] Journées Surface Interfaces, Marseille, 1-3 février 2006.

2005

- C14. Three-dimensional magnetization structures in Fe/Mo(110) islands**
[Poster] 10^{ème} Colloque Louis Néel, Dourdan, Septembre 2005.

2004

- C13. Surface imaging of flux-closure domains in thick micron-size self-assembled dots: an X-PEEM study**
[Oral (15 min)] JEMS04 (Joint European Magnetic Symposia), Dresden, Germany, 5-10 Sept. 2004.
- C12. Self-assembly and self-organization of magnetic dots and stripes – From surfaces to functional magnetic materials.**
[Oral (15 min)] ICCG/ICVGE (International Conference on Crystal Growth – International Conference on Vapor Growth Deposition), Grenoble, France, 9-13 august 2004.
- C11. Observation par X-PEEM de structures à fermeture de flux dans des plots auto-assemblés micrométriques épais**
[Poster] Colloque Louis Néel 9, Autrans (France), March 17-19th (2004).
- C10. Self-organization of 'thick' epitaxial Fe/cc(110) stripes**
[Poster] journées Surfaces Interfaces 2004, Mulhouse (France), 28-20 janvier 2004.

2002

- C9. Modèle de renversement d'aimantation de plots plats à forte anisotropie uniaxiale planaire**
[Oral (15 min)] Colloque Louis Néel 2002, Gérardmer (France), 24-26 septembre 2002.
- C8. Défauts de percolation à l'interface Co/Au(111) révélés par combinaison de GISAXS et STM**
[Poster] 8^{èmes} Journées de la Matière Condensée (JMC8), Marseille (France), 27-30 août 2002.

2001

- c7. Diffusion X aux petits angles et en incidence rasante (GISAXS) sur des plots auto-organisés de Co/Au(111) : de la diffraction sur un réseau de maille ~10nm
[Poster] Colloque Louis Néel 2001, Dourdan (France), 8-9 mars 2001.

1999

- c6. Growth of nanosized self-organized pillars of Co in Au(111) using an alternating deposition process
[Oral (15min)] Conférence ACSIN-5 (Atomically-Controlled Surfaces, Interfaces and Nanostructures), Aix-en-Provence, 6-9 juillet 1999.

1998

- c5. Submicrometer sized epitaxial particles with in-planemagnetization : towards coherent rotation of magnetization ?
[Poster] « Magnetic nanostructures » Gordon conference, 25-29 janvier 1998, Ventura, Californie.
- c4. Arrays of ultrathin Fe(110) 200nm-wide particles investigated by microSQUID measurements
[Poster] Metallic Multilayers, Vancouver (1998).

1996

- c3. Propriétés magnétiques de réseaux de plots épitaxiés submicroniques de Fe(110)
[Poster] Colloque Louis Néel 'Couches Minces et Nanostructures Magnétiques', Mont St Odile, Janvier 1996.
- c2. Temperature-Driven in-plane anisotropy reorientation in Fe(110) films
[Poster] EMR-S Spring Meeting, Strasbourg, Juin 1996.
- c1. Transition de réorientation planaire en fonction de la température dans des couches ultra-minces épitaxiées de Fe(110)
[Poster] 5èmes Journées de la Matière Condensée (JMC5), SFP, Orléans, 28-30 août 1996.

5. Contributed communications (presented by collaborators)

This list is being maintained since 2005 only. The person presenting is highlighted in bold.

TOTAL = 93

Type of contribution : (+Cb84 → Cb87. Cb90, → 92)

- Invited, international: 2
- Oral, international : 28
- Oral, national : 14
- Poster : 47

2016

- Cb93.** Systematic Engineering of Structured Magnetic Nanowire Arrays for Three-Dimensional Data Storage

- J. Bachmann, S. Bochmann, J. Lee, A. Fernandez-Pacheco, A. Wartelle, B. Trapp, R. Cowburn, O. Fruchart.
[Invited] Meeting of the Electrochemical Society, Honolulu, Oct 2016
- Cb92. Monitoring Bloch points using winding number in micromagnetic simulations**
 S. Jamet, C. Thirion, A. Wartelle, O. Fruchart, J. C. Toussaint,
[XXX] Joint European Magnetic Symposia 2016, Glasgow, Aug 2016
- Cb91. Magnetic bubbles in Au/Co/Pd trilayers**
C. Bouard, P. Warin, O. Fruchart, A. Masseboeuf, A. Marty,
[XXX] Joint European Magnetic Symposia 2016, Glasgow, Aug 2016
- Cb90. Anisotropic Dzyaloshinskii-Moriya interaction in ultra-thin epitaxial Au/Co/W(110)**
L. Camosi, O. Fruchart, J. Vogel, M. Belmeguenai, Y. Roussigné, S. Rohart, S. Pizzini,
[XXX] Joint European Magnetic Symposia 2016, Glasgow, Aug 2016
- Cb89. Domain walls in cylindrical magnetic nanowires and their displacement observed via electron holography**
M. Stano, S. Jamet, J. C. Toussaint, S. Bochmann, J. Bachmann, A. Masseboeuf, E. Snoeck,
 O. Fruchart,
[Poster] Joint European Magnetic Symposia 2016, Glasgow, Aug 2016
- Cb88. Imaging orthoradial domains in electroless-deposited magnetic nanotubes**
M. Stano, R. Belkhou, S. Schäfer, J. C. Toussaint, W. Ensinger, O. Fruchart,
[Oral] Joint European Magnetic Symposia 2016, Glasgow, Aug 2016
- Cb87. Nucléation et propagation de parois de domaines magnétiques dans des nanofils cylindriques**
B. Trapp, S. Da Col, S. Bochmann, M. Staño, L. Cagnon, T. Devillers, N. Dempsey, J. Bachmann, J.C. Toussaint, O. Fruchart
[Poster] Colloque Louis Néel, March 2016.
- Cb86. Domain walls and their displacement in cylindrical magnetic nanowires observed via electron holography**
 M. Staño, S. Jamet, J.-C. Toussaint, S. Bochmann, J. Bachmann, A. Masseboeuf, O. Fruchart
[Poster] Colloque Louis Néel, March 2016.
- Cb85. Anisotropic Dzyaloshinskii-Moriya interaction in ultra-thin epitaxial Au/Co/W(110)**
L. Camosi, O. Fruchart, J. Vogel, M. Belmeguenai, Y. Roussigné, L. Ranno, S. Rohart, S. Pizzini
[Poster] Colloque Louis Néel, March 2016.
- Cb84. Déplacement de parois de domaines magnétiques dans des nanofils cylindriques par impulsions de champ courtes**
A. Wartelle, C. Thirion, S. Jamet, R. Afid, M. Staño, L. Cagnon, J.-C. Toussaint, J. Bachmann, S. Bochmann, A. Locatelli, T.O. Menteş, O. Fruchart
[Poster] Colloque Louis Néel, March 2016.

2015

- Cb83. Anisotropic epitaxial materials for magnetic skyrmions**
L. Camosi, S. Pizzini, L. Ranno, O. Fruchart, J. Vogel
[Poster] E-MRS Lille, May 2015.
- Cb82. An extended phase diagram of domain walls with geometry ranging from flat nanostrips to square and circular nanowires**
 S. Jamet, N. Rougemaille, J.C. Toussaint, **A. Wartelle**, O. Fruchart
[Poster] Intermag conference, Beijing, China, May 2015.
- Cb81. Magnetic field-induced domain wall motion in cylindrical nanowires**
A. Wartelle, C. Thirion, R. Afid, S. Jamet, S. Da-Col, L. Cagnon, J.C. Toussaint, J. Bachmann, S. Bochmann, A. Locatelli, T.O. Menteş, O. Fruchart
[Poster] Intermag conference, Beijing, China, May 2015.

2014

- Cb80.** An extended phase diagram of domain walls with a geometry from flat nanostrips to compact nanowires
S. Jamet et al
[Poster] MMM conference, Honolulu, Hawaii, USA, Nov 2014.
- Cb79.** Shadow XMCD-PEEM: high-resolution experiments of 3D domain walls and development of a simulation tool
S. Jamet et al
[Poster] MMM conference, Honolulu, Hawaii, USA, Nov 2014.
- Cb78.** Statics and motion of domain walls in cylindrical nanowires
S. Jamet et al.
[Oral] MMM conference, Honolulu, Hawaii, USA, Nov 2014.
- Cb77.** Synthèse et micromagnétisme de nanofils magnétique cylindrique modulés
R. Afid, O. Fruchart, et al.
[Oral] Matériaux 2014, Montpellier, 24-28 Nov 2014.
- Cb76.** Ordered arrays of magnetic nanowires investigated by polarized Small-Angle Neutron Scattering (P-SANS)
T. Maurer, F. Zighem, S. GAutrot, G. Chaboussant, F. Ott, L. Cagnon, O. Fruchart
[Oral] Nano2014, Moscow, 13-18 Jul 2014.
- Cb75.** Micromagnetic study of phase diagram of domain walls in nanowires and nanostrips
S. Jamet, N. Rougemaille, J. C. Toussaint, O. Fruchart,
[Poster] Intermag conference, Dresden, Germany, May 4-8 2014.

2013

- Cb74.** Current-induced motion of vortex domain walls in Py/Pt bilayer nanostripes
V.D. Nguyen, M. Z. Ishaque, S. Pizzini, N. Rougemaille, M. Bonfim, O. Fruchart, J.-C. Toussaint, T.O. Menteş, A. Locatelli, J. Vogel,
[Poster] MMM conference, Denver, USA, November 2013.
- Cb73.** Increased current-induced motion of vortex domain walls in Py/Pt bilayer nanostripes
Z. Ishaque, V. D. Nguyen, S. Pizzini, N. Rougemaille, O. Fruchart, S. Perl, J. C. Toussaint, J. Vogel,
[Oral] International French-US workshop, San Diego, July 2013.
- Cb72.** Magnetostatic interactions in assemblies of nanowires with domain walls
Sandrine Da Col, Ségolène Jamet, Laurent Cagnon, Olivier Fruchart, Jean-Christophe Toussaint
[Oral] International Workshop on Magnetic Nanowires and Nanotubes, Kaub, Germany, May 2013.
- Cb71.** Simulations de l'influence de la configuration micromagnétique sur la réponse MFM
S. Jamet, J. C. Toussaint, O. Fruchart,
[Poster] Colloque Louis Néel, Tours, mars 2013.
- Cb70.** Nucléation de parois et champ de propagation dans des nanofils cylindriques
S. Da Col, M. Darques, L. Cagnon, N. Rougemaille, J.-C. Toussaint, O. Fruchart,
[Oral] Colloque Louis Néel, Tours, mars 2013.
- Cb69.** Propagation de parois induit par impulsions de courant dans des nanobandes de Pt/Py
D. Van Nguyen, Z. Ishaque, S. Pizzini, S. Perl, O. Fruchart, N. Rougemaille, J. Vogel,
[Poster] Colloque Louis Néel, Tours, mars 2013.
- Cb68.** Domain wall nucleation and propagation in magnetic cylindrical nanowires
S. Da Col, M. Darques, L. Cagnon, N. Rougemaille, J.-C. Toussaint, O. Fruchart,
[Oral] Metallic Multilayers (MML2013), Kyoyo, May 2013.
- Cb67.** Perpendicular magnetic anisotropy of cobalt films covered with graphene

J. Coraux, A. T. N'Diaye, N. Rougemaille, C. Vo-Van, A. Kimouche, O. Fruchart, A. K. Schmid,
[Oral] European Workshop on Epitaxial Graphene (EWEG), Aussois, Jan.2013.

- Cb66.** Effect of the Oersted field on current-induced domain wall motion and domain wall chirality in bilayer nanostripes
 Z. Ishaque, S. Perl, S. Pizzini, O. Fruchart, N. Rougemaille, J. C. Toussaint, J. Vogel,
[Poster] Interomag, 2013.

2012

- Cb65.** Magnetism of Co/Graphene interfaces
N. Rougemaille.
[Oral] JEMS, Parma (Italy), Sep.2012.
- Cb64.** Dipolar Spin ice in artificial Kagome networks
N. Rougemaille.
[Oral] JEMS, Parma (Italy), Sep.2012.
- Cb63.** Development of epitaxial films for current induced domain wall motion
 Z. Ishaque, O. Fruchart, D. Berling, J. Vogel.
[Poster] JEMS, Parma (Italy), Sep.2012.
- Cb62.** Effects of Oersted field on current induced domain wall motion and domain wall chirality in multilayer nanostripes
 Z. Ishaque, O. Fruchart, N. Rougemaille, V. Uhlír, S. Pizzini, J. Vogel, J. C. Toussaint, A. Masseboeuf, A. Locatelli, O. Montes, M. Urbanek, Z. Kassir-Bodon, P. Bayle-Guillemaud
[Poster] JEMS, Parma (Italy), Sep.2012.
- Cb61.** Towards quantitative magnetic force microscopy on permanent magnets
 G. Ciuta, F. Dumas-Bouchiat, N. Dempsey, O. Fruchart, D. Givord.
[Poster] JEMS, Parma (Italy), Sep.2012.
- Cb60.** Magnetic force microscopy study of magnetization reversal in NdFeB-based hard magnetic films
 G. Ciuta, F. Dumas-Bouchiat, N. Dempsey, O. Fruchart, D. Givord.
[Oral] JEMS, Parma (Italy), Sep.2012.
- Cb59.** Magnetic spin reorientation transition in graphene covered Cobalt on Iridium(111)
 A. T. N'Diaye, J. Coraux, N. Rougemaille, C. Vo-Van, O. Fruchart, and A. K. Schmid
[Oral] Congress of the American Vacuum Society, Oct.2012.
- Cb58.** Micromagnetic investigation of domain walls in Spin-valves for enhanced spin-torque processes
 A Masseboeuf, Z Ishaque, O Fruchart, N Rougemaille, J Vogel, S Pizzini, JC Toussaint, P Bayle,
[Poster] European Microscopy Congress, Manchester, Sep.2012.
- Cb57.** Artificial kagome arrays of nanomagnets: a frozen dipolar spin ice
 N. Rougemaille, F. Montaigne, B. Canals, A. Duluard, D. Lacour, M. Hehn, R. Belkhou, O. Fruchart, S. El Moussaoui, A. Bendounan, F. Maccherozzi,
[Oral] ICN + T, Paris, Aug 2012.
- Cb56.** Graphene-ferromagnet hybrid nanostructures
 C. Vo-Van, J. Coraux, N. Rougemaille, A. Kimouche, O. Fruchart, S. Schumacher, Th. Michely, V. Sessi, N. B. Brookes, P. Ohresser, A. T. N'Diaye, A. K. Schmid,
[Oral] ICN + T, Paris, Aug 2012.
- Cb55.** Magnetic nanowires self-organized in alumina nanoporous templates
S. Da Col, M. Darques, L. Cagnon, J. C. Toussaint, O. Fruchart,
[Poster] Third European Workshop on Nanomagnets, Madrid, Apr 2012.

- Cb54. Magnetism of cobalt nanoclusters and intercalated europium at supported graphene**
S. Schumacher, C. Vo-Van, J. Coraux, V. Sessi, D. F. Förster, C. Busse, T. O. Wehling, A. Rosch, O. Fruchart, N. B. Brookes, P. Ohresser, T. Michely,
[Oral] Third European Workshop on Nanomagnets, Madrid, Apr 2012.
- Cb53. Magnetism of Cobalt Nanoclusters on Graphene on Iridium**
C. Võ-Văn, S. Schumacher, J. Coraux, V. Sessi, O. Fruchart, N. Brookes, Ph. Ohresser, T. Michely,
[Oral] InterMag2012, Vancouver.
- Cb52. Ultrathin Cobalt Films Contacted to Graphene**
C. Võ-Văn, Z. Kassir-Bodon, A. Kimouche, H.-X. Yang, J. Vogel, S. Pizzini, P. Bayle-Guillemaud, M. Chshiev, L. Ranno, V. Salvador, V. Guisset, P. David, A. T. N'Diaye, N. Bendiab, A. K. Schmid, N. Rougemaille, O. Fruchart, J. Coraux,
[Oral] InterMag2012, Vancouver.
- Cb51. Effect of the Oersted field on current-induced domain wall motion and domain wall chirality in multilayer nanostripes**
J. Vogel, Z. Ishaque, S. Pizzini, V. Uhlir, N. Rougemaille, O. Fruchart, J.C. Toussaint, V. Cros, J. Camarero, J. C. Cezar, F. Sirotti,
[Oral] InterMag2012, Vancouver.
- Cb50. Modified Phase Diagram of Domain Walls in FeNi/Cu/Co Nanostripes**
N. Rougemaille, U. Vojtech, O. Fruchart, Z. Ishaque, J. Vogel, S. Pizzini, Z. Kassir-Bodon, A. Masseboeuf, P. Bayle Guillemaud, A. Locatelli, O. Mentès, M. Urbanek, J.C. Toussaint
[Oral] InterMag2012, Vancouver.

2011

- Cb49. Current-induced magnetization dynamics in magnetic nanostructures studied with time-resolved XMCD-PEEM**
S. Pizzini, V. Uhlir, N. Rougemaille, M. Bonfim, O. Fruchart, Z. Ishaque, V. Cros, O. Boulle, M. Miron, G. Gaudin, H. Szabolcs, J. C. Cezar, F. Sirotti, J. Vogel
[Poster] Workshop Spin Master Voice, Paris, Dec.2011.
- Cb48. Optimisation de vanes de spin épitaxiées Fe₂₀Ni₈₀/Cu/Co**
Z. Kassir-Bodon, Z. Ishaque, J. Vogel, S. Pizzini, O. Fruchart
[Poster] Colloque Louis Néel XIV, Brest, Sep 2011.
- Cb47. Réduction des interactions magnétostatiques dans un réseau dense de nanofils magnétiques**
S. Da Col, M. Darques, L. Cagnon, J.-C. Toussaint, O. Fruchart
[Poster] Colloque Louis Néel XIV, Brest, Sep 2011.
- Cb46. Réseaux de nano-aimants à frustration géométrique : simulations micromagnétiques**
H. Riah, F. Montaigne, N. Rougemaille, B. Canals, D. Lacour, M. Hehn, A. Duluard, O. Fruchart, R. Belkhou,
[Poster] Colloque Louis Néel XIV, Brest, Sep 2011.
- Cb45. Enhanced stability of transverse domain walls in spin valves**
Z. Ishaque, J. Vogel, O. Fruchart, S. Pizzini, N. Rougemaille, J.C. Toussaint, V. Uhlir, Z. Kassir-Bodon, A. Masseboeuf, P. Bayle Guillemaud, A. Locatelli, O. Mentès, M. Urbanek
[Oral] Colloque Louis Néel XIV, Brest, Sep 2011.
- Cb44. Experimental Micromagnetism through Lorentz Microscopy**
A. Masseboeuf, O. Fruchart, T. Jourdan, F. Cheynis, A. Marty, F. Lançon, J.C. Toussaint, P. Bayle-Guillemaud
[Oral] Congrès de la société française de microscopie, Strasbourg, Juin 2011.
- Cb43. Ferromagnetic antidot arrays : magnetic reversal and exchange bias in Cu/Co/Cu**
F. Fetta, N. Rougemaille, L. Cagnon, M. Darques, O. Fruchart
[Poster] InterMag, April 2011 (Taipei).
- Cb42. Artificial kagome arrays of nanomagnets: Spin Ice or Dipolar Spin Ice ?**

N. Rougemaille, F. Montaigne, B. Canals, A. Duluard, **D. Lacour**, M. Hehn, R. Belkhou, O. Fruchart, S. El Moussaoui, A. Bendounan, F. Maccerozzi
[Oral] Intermag, April 2011 (Taipei).

Cb41. Reduction of magnetostatic interactions in dense arrays of Ni nanowires using Atomic Layer Deposition

S. Da-Col, M. Darques, L. Cagnon, O. Fruchart
[Oral] Intermag, April 2011 (Taipei).

2010

Cb40. Perpendicular magnetic anisotropy of ultrathin epitaxial cobalt films on graphene

Vo-Van Chi, Z. Kassir-Bodon, H. Yang, J. Coraux, **J. Vogel**, S. Pizzini, P. Bayle-Guillemaud, M. Chshiev, L. Ranno, V. Santonacci, P. David, V. Salvador, O. Fruchart
[Oral] MMM, Nov. 2010 (Atlanta).

Cb39. Magnetostatic interactions reduction in electrodeposited Nickel nanowire arrays using ALD

S. Da-Col, O. Fruchart, M. Darques, **L. Cagnon**.
[Oral] Baltic ALD & GerALD, Sep. 2010 (Hamburg).

Cb38. Ultrathin epitaxial cobalt films on graphene: perpendicular magnetic anisotropy and high magnetic smoothness

J. Coraux, Chi Vo-Van, Zoukaa Kassir-Bodon, Hongxin Yang, Jan Vogel, Stefania Pizzini, Pascale Bayle-Guillemaud, Mairbek Chshiev, Laurent Ranno, Valérie Santonacci, Philippe David, Violaine Salvador, and Olivier Fruchart.
[Oral] ECOS, Aug. 2010 (Groningen).

Cb37. Ferromagnetic antidot arrays: micromagnetic properties and exchange bias

F. Fettar, A. Doupal, **N. Rougemaille**, L. Cagnon, M. Darques, and O. Fruchart
[Poster] Magnetic Multilayers (MML), septembre 2010 (Berkeley).

Cb36. Role of the long range dipolar interaction in geometrically frustrated arrays of nanomagnets

N. Rougemaille, B. Canals, B. Baseras, F. Montaigne, A. Duluard, D. Lacour, M. Hehn, R. Belkhou, A. Bendounan, O. Fruchart, F. Maccherozzi, and S. El Moussaoui,
[Oral] Magnetic Multilayers (MML), septembre 2010 (Berkeley).

Cb35. Controlled switching of Néel caps in flux-closure magnetic dots

N. Rougemaille, O. Fruchart, A. Masseboeuf, F. Cheynis, J. C. Toussaint, R. Belkhou, P. Bayle-Guillemaud, A. Marty.
[Poster] Magnetic Multilayers (MML), septembre 2010 (Berkeley).

Cb34. Propriétés magnétiques de nanostructures à réseaux d'antidots de taille nanométrique

F. Fettar, N. Rougemaille, L. Cagnon, M. Darques, L. Ortega, D. Barral, O. Fruchart
[Poster] XIIIème Colloque Louis Néel, Albé, 31 mars – 2 avril 2010.

Cb33. Renversement contrôlé de domaines de fermeture de Néel au sein de parois de Bloch

A. Masseboeuf, F. Cheynis, **N. Rougemaille**, J. C. Toussaint, R. Belkhou, P. Bayle-Guillemaud, A. Marty, O. Fruchart
[Poster] XIIIème Colloque Louis Néel, Albé, 31 mars – 2 avril 2010.

Cb32. Micromagnétisme par éléments finis

E. Kritsikis, J.-Ch. Toussaint, F. Alouges, L. D. Buda-Prejbeanu, O. Fruchart
[Poster] XIIIème Colloque Louis Néel, Albé, 31 mars – 2 avril 2010.

Cb31. Croissance et anisotropie perpendiculaire de couches ultraminces de cobalt épitaxiées sur graphène

Chi Vo-Van, Z. Kassir-Bodon, J. Coraux, J. Vogel, S. Pizzini, V. Santonacci, P. David, O. Fruchart
[Oral] XIIIème Colloque Louis Néel, Albé, 31 mars – 2 avril 2010.

Cb30. Development of epitaxial films for current induced domain wall motion

Zahid Muhammad Ishaque, Olivier Fruchart, Stefania Pizzini, Jan Vogel.

[Poster] XIIIème Colloque Louis Néel, Albé, 31 mars – 2 avril 2010.

- Cb29. Réseaux de nano-aimants à frustration géométrique : influences des couplages à courte et longue distance**
A. Duluard, F. Montaigne, N. Rougemaille, B. Canals, D. Lacour, M. Hehn, R. Belkhou, A. Bendounan, O. Fruchart, F. Maccherozzi, S. El Moussaoui,
 [Oral] XIIIème Colloque Louis Néel, Albé, 31 mars – 2 avril 2010.
- Cb28. Long range correlations in geometrically frustrated networks of nanomagnets**
 R. Belkhou, A. Bendounan, B. Canals, A. Duluard, S. El Moussaoui, O. Fruchart, D. Lacour, M. Hehn, F. Maccherozzi, **F. Montaigne**, N. Rougemaille,
 [Oral] MMM/Intermag, janvier 2010 (Washington).

2009

- Cb27. Observation in-situ par Microscopie de Lorentz du retournement d'un Cap de Néel dans une nanostructure**
A. Masseboeuf, F. Cheynis, C. Arm, O. Fruchart, J.-C. Toussaint, A. Marty, P. Bayle-Guillemaud,
 [Oral] Congrès de la société française de microscopie, Paris, 22-26 juin 2009.
- Cb26. Magnetization reversal in self-organized magnetic nanowire arrays: collective vs. individual properties**
L. Cagnon, P. Lemonnier, O. Fruchart,
 [Poster] Self-Organized Nanomagnets 2009, Aussois, 29 mars – 3 avril 2009.
- Cb25. Self-organized metallic clusters on graphene/Ir moiré patterns**
J. Coraux, O. Fruchart, J.-M. Tonnerre, A. T. N'Diaye, C. Busse, T. Michely
 [Poster] Self-Organized Nanomagnets 2009, Aussois, 29 mars – 3 avril 2009.

2008

- Cb24. Etude du renversement de Cap de Néel par Microscopie de Lorentz**
 F. Cheynis, **A. Masseboeuf**, O. Fruchart, J.-C. Toussaint, P. Bayle-Guillemaud, A. Marty
 [Oral] Colloque Louis Néel 12, La Grande Motte, 30 sept – 3 oct 2008.
- Cb23. Micromagnétisme par Eléments Finis**
E. Kritsikis, H. Szabolics, J.-Ch. Toussaint, L. D. Buda-Prejbeanu, F. Alouges, O. Fruchart
 [Poster] Colloque Louis Néel 12, La Grande Motte, 30 sept – 3 oct 2008.
- Cb22. Transition entre un vortex magnétique et une paroi de domaine**
F. Cheynis, A. Masseboeuf, O. Fruchart, J.-C. Toussaint, P. Bayle-Guillemaud, A. Marty
 [Oral] Colloque Louis Néel 12, La Grande Motte, 30 sept – 3 oct 2008.
- Cb21. Innovative weak formulation for the Landau-Lifshitz-Gilbert equation**
H. Szabolics, J.-Ch. Toussaint, L. D. Buda-Preajbeanu, F. Alouges, E. Kirtsikis, O. Fruchart, [Oral] *Intermag, Madrid, 4-8 mai 2008.*
- Cb20. Multicouches pour supraconducteurs déposés**
 T. Caroff, S. Morlens, C. Millon, Z. Yu, A. Guibadj, O. Fruchart, L. Rapenne, P. Chaudouette, M. Bacia, L. Ortega, C. Jimenez, J.L Soubeyroux, **P. Odier**,
 [Poster] Journées Surfaces-Interfaces (JSI2008), Grenoble, Jan.2008.
- Cb19. Growth and magnetism of self-organized arrays of fe(110) wires formed by deposition on kinetically-grooved W(110)**
A. Rousseau, O. Fruchart, B. Borca, C. Meyer,
 [Poster] Journées Surfaces-Interfaces (JSI2008), Grenoble, Jan.2008.

2007

- Cb18. Electron Microscopy Investigation of Magnetization Process in Thin Foils and Nanostructures**
A. Masseboeuf, F. Cheynis, J.-Ch. Toussaint, O. Fruchart, C. Gatel, A. Marty, P. Bayle-Guillemaud,
[Oral] MRS Boston, Nov.2007.
- Cb17. XMCD-PEEM investigation of Néel-cap reversal**
F. Cheynis, R. Belkhou, N. Rougemaille, J.-Ch. Toussaint, O. Fruchart
[Oral] MMM2007, Tampa (Florida), Nov. 2007.
- Cb16. Couches Tampon à Paramètre Cristallin Ajustable pour des études de Couches Minces et Nanostructures Magnétiques**
A. Rousseau, O. Fruchart
[Poster] Colloque Louis Néel 11, Lyon, 14-16 mars 2007.
- Cb15. Étude du renversement de domaines de fermeture de Néel par XCMD-PEEM**
F. Cheynis, R. Belkhou, N. Rougemaille, J.-C. Toussaint, O. Fruchart
[Oral] Colloque Louis Néel 11, Lyon, 14-16 mars 2007.
- Cb14. Croissance et magnétisme de nanofils de Fe préparés dans les sillons d'une surface de W(110) auto-organisée cinétiquement en toits d'usine**
B. Borca, O. Fruchart, C. Meyer
[Oral] Colloque Louis Néel 11, Lyon, 14-16 mars 2007.
- Cb13. Fabrication and magnetic properties of self-organised nanowires arrays**
B. Borca, O. Fruchart, **C. Meyer**, F. Cheynis, M. Hasegawa
[Poster] Advanced Materials and Nanotechnology, Wellington (New Zealand), 11-16 Feb 2007.

2006

- Cb12. Growth and magnetism of self-organized arrays of Fe(110) wires formed by deposition on kinetically-grooved W(110)**
B. Borca, O. Fruchart, F. Cheynis, M. Hasegawa, C. Meyer
[Oral] ECOSS24 (European Conference On Surface Science), Paris, 4-8 septembre 2006.
- Cb11. Auto-organisation latérale de nanofils Fer/Argent sur Mo(110)**
B. Borca, O. Fruchart, **C. Meyer**
[Poster] Journées de la matière condensée (JMC10), Toulouse, 29 août – 1^{er} septembre 2006.
- Cb10. Finite Element Formalism for Micromagnetism**
H. Szabolics, L. Buda-Prejbeanu, J. C. Toussaint, O. Fruchart
[Oral] Electric and Magnetic Fields (EMF06), From Numerical Models to Industrial Applications, Aussois, 19-22 juin 2006. Prix de la meilleure presentation.
- Cb9. Micromagnetic configurations in relation with the structure of nano-objects : A combined study using PEEM, LEEM and micromagnetic simulations**
S. Cherifi, R. Hertel, M. Balboni, Y. Watanabe, O. Fruchart, A. Locatelli, S. Heun, E. Bauer
[Poster] Physics in low dimensions – When structure meets magnetism, Bochum, 5-7 avril 2006.

2005

- Cb8. Magnétic properties of self-organized lateral arrays of (Fe,Ag)/Mo(110) nanostripes**
B. Borca, O. Fruchart, **C. Meyer**
[Poster] MMM05, San-José, USA, novembre 2005.
- Cb7. Formulations éléments finis pour le micromagnétisme**
H. Szabolics, L. D. Buda-Preajbeanu, **J.-C. Toussaint**, O. Fruchart, A. Marty
[Poster] 10^{ème} Colloque Louis Néel, Dourdan, Septembre 2005.

- Cb6. Étude des propriétés magnétiques et de croissance de nanostructures auto-assemblées de Fe(110) par microscopie SPLEEM
F. Cheynis, N. Rougemaille, O. Fruchart, A. Schmid.
[Poster] 10^{ème} Colloque Louis Néel, Dourdan, Septembre 2005. Prix du meilleur poster.
- Cb5. Auto-organisation de réseaux planaires de nanofils Fe,Ag/Mo(110)
B. Borca, C. Meyer, O. Fruchart.
[Poster] 10^{ème} Colloque Louis Néel, Dourdan, Septembre 2005.
- Cb4. Three-dimensional magnetization structures in Fe/Mo(110) islands
R. Hertel, O. Fruchart, S. Cherifi, P.-O. Jubert, A. Locatelli, S. Heun.
[Oral] E-MRS Spring meeting, Strasbourg, , 31 may – 3rd June 2005.
- Cb3. Dreidimensionale Magnetisierungsstrukturen in Fe/Mo(110)-Inseln
R. Hertel, O. Fruchart, S. Cherifi, P.-O. Jubert, A. Locatelli, S. Heun.
[Oral] DFG Spring meeting, Berlin, Germany, 4-9 March 2005.
- Cb2. Magnétisme de nanostructures de Fer à périodicité latérale obtenues par croissance auto-organisée
B. Borca, O. Fruchart, C. Meyer, A. Liénard.
[Poster] Journées surfaces-interfaces, Lyon, Janvier 2005.
- Cb1. Three-dimensional magnetization structures in Fe/Mo(110) islands
R. Hertel, O. Fruchart, S. Cherifi, P.-O. Jubert, A. Locatelli, S. Heun.
[Poster] 3K meeting (Nanomagnetism: New Insights with Synchrotron Radiation), Physikzentrum Bad Honnef, Germany, 5-7 jan.2005.

6. Talks ; Invited lectures in research Schools

Presentations at contract meetings, international agreements etc., are not listed.

TOTAL = 73 (plus declined : 6)

Type of contribution :

- Student and PhD lectures : 8 (109h)
- Lectures in research schools : 29 (60.5h)
- Lectures, technical schools: 1 (1h)
- Seminars, abroad : 17
- Seminars, France : 18

2015

- L73. *Epitaxy for magnetism*
[Lectures (1 h)] Summer School of GdR Pulse, Porquerolles, 14-18 Sep 2015
- L72. *Units in Magnetism*
[Practical (3x2 h)] The European School on Magnetism, Cargèse, 25fév-8mars 2013.
- L71. *Magnetism basics*
[Lecture (2h30)] inMRAM School, Grenoble, 1-3 July 2015.
- L70. *Magnetic domain walls in cylindrical nanowires – From opportunities for fundamental science towards 3D storage media ?*
[Seminar (1h)] IPCMS, Strasbourg, 27 May 2015.
- Lxx. Declined (unavailable). *Spintronics*
[Lecture] Tsukuba Summer School, July 21-31, Japan.
- Lxx. Declined (overlap with ICM). *Introduction to nanomagnetism: alternative ways to control magnetism*
[Lecture] Instituto Nicolas Cabrera-UAM annual Summer School, Barcelona, July 12-17.

2014

- L69. *Physics seminars of PHELMA (Grenoble INP) – Un voyage dans le nanomagnétisme*
[Seminar (2h)] PHELMA, Grenoble Institute of Technology, Grenoble, France, 8 Dec.
- L68. *Magnetic domain walls in cylindrical nanowires*
[Seminar (1h)] Alba synchrotron, Barcelona, Spain.
- L67. *Magnetic force microscopy: basics and tricks - Imaging nanodevices and materials at the frontiers of the NTegra microscope*
[Lecture (1h)] NT-MDT workshop, Paris, 4-5 Nov.
- L66. *Nanomagnetism*
[Lecture (3h)] 7th IEEE Magnetics Society Summer School, Rio de Janeiro, Aug.10-15.
- L65. *Magnetism basics*
[Lecture (2h30)] inMRAM School, Grenoble, 2-4 July 2014.
- L64. *Magnetic domain walls in cylindrical nanowires*
[Seminar (45min)] Paul Scherrer Institute, Villigen, Switzerland, 21 Feb.
- L63. *Magnetic domain walls in cylindrical nanowires – From Nano to 3D ?*
[Seminar (1 h)] Séminaire NEEL, Institut NEEL, Grenoble, 18 Feb 2014.
- L62. *Physics seminars of PHELMA (Grenoble INP) – Un voyage dans le nanomagnétisme*
[Seminar (2h)] PHELMA, Grenoble Institute of Technology, Grenoble, France, 7 Jan.

2013

- L61. *Nanomagnetism*
[PhD series of lectures (16 h)] Lectures at the Doctoral School of Grenoble.
- L60. *Magnetism basics*
[Lecture (2h30)] inMRAM School, Grenoble, 1-3 July 2013.
- L59. *Bottom-up magnetic systems*
[Lecture (1 h)] 7th Summer School Nanoscience Ile de France, Paris, 23-28 June 2013.
- L58. *TEM microscopy for magnetism: motivation and competition*
[Seminar (30min)] Inauguration microscope CEMES, Toulouse, 17 juin 2013.
- L57. *Magnetic Force Microscopy (by and) for dummies*
[Seminar (1 h)] Département Nanosciences, Institut NEEL, Grenoble, 7 mai 2013.
- L56. *Simple views on magnetization reversal*
[Lecture (1.5 h)] The European School on Magnetism, Cargèse, 25fév-8mars 2013.
- L56. *What to learn from hysteresis loops ?*
[Lecture (1.5 h)] The European School on Magnetism, Cargèse, 25fév-8mars 2013.
- L56. *Units in Magnetism*
[Practical (2 h)] The European School on Magnetism, Cargèse, 25fév-8mars 2013.

2012

- L53. *Internal degrees of freedom inside magnetic domain walls*
[Seminar (1 h)] Univ. Bochum, Group Prof. H. Zabel, Mar 22, 2012.
- L52. *Degrés de liberté internes aux vortex et parois de domaines magnétiques - Effets de fermeture du flux*
[Seminar (1 h)] Institut de Physique de Rennes, Département Matériaux - Nanosciences, Rennes, Jan.16, 2012.

2011

- L51. *Degrés de liberté internes aux vortex et parois de domaines magnétiques - Effets de fermeture du flux*
[Seminar (1 h)] CEMES / LPCNO, Toulouse, Dec.8, 2011.
- L50. *Nanomagnetism*
[PhD series of lectures (15 h)] 'Nanomagnetism', Master 'Nanomaterials', University of Marrakech.
- L49. *A short dive into Nanomagnetism and spintronics*
[Lecture (2 h)] IUVSTA International Summer School on Physics at Nanoscale, Devět Skal, Tcheque republic, 30th May - 4th June.
- L48. *Atomic and Magnetic Force Microscopy*
[Lecture (1h30)] Spring School on X-Ray Microscopy, May 2-6th, 2011.
- L47. *Nanomagnetism*
[PhD series of lectures (16 h)] Lectures at the Doctoral School of Grenoble.

2010

- L46. *Nanomagnetism – Low-dimensions and micromagnetism*
[Lecture (3h)] International Workshop and School on Magnetic and Semiconducting Nanomaterials (IWOS MASENA), Nov 1 – 6 2010, Hanoi, Vietnam.
- L45. *Introduction au magnétisme*
[Lecture (2h)] École du GdR nanoalliages, May 31st – June 5th 2010, Fréjus, France.
- Lxx. **Invitation declined** - *Nanomagnetism*
Magnetism of magnetic nanostructures, Sfax, 14-18 March 2010.
- L44. *Magnetization processes in flux-closure micron-sized dots*
[Seminar (1h)] Brookhaven National Laboratory (Pr. Y. Zhu), USA, Jan. 25th, 2010.

2009

- L43. *Magnetization processes within domain walls and control of flux-closure chirality in micrometer-size self-assembled epitaxial dots.*
[Seminar (1h)] IFW-Dresden, Institute for Theoretical Solid State Physics, Dec.9th 2009.
- L42. *Introduction au nanomagnétisme*
[Lecture (3h)] Séminaire Daniel Dautreppe 2009 (SFP), Nanomagnétisme et électronique de spin, Grenoble, France, 16-20 novembre 2009.
- L41. *Nanomagnetism, domains and walls, magnetization processes, coercivity processes, analysis of hysteresis*
[Lecture (4h) + tutorials (2h)] European School on Magnetism 2009: Models in magnetism : from basic aspects to practical uses, Timisoara (Romania), 1-10 September 2009.
- L40. *Nanomagnetism*
[PhD series of lectures (16 h)] Lectures in the Doctoral School of Grenoble.

2008

- L39. *Auto-organisation épitaxiale de plots, fils et gabarits de croissance - Application au nanomagnétisme*
[Seminar (1h)] Séminaire du Laboratoire des Matériaux et du Génie Physique (LMGP), Grenoble (France), 28 novembre 2008.

- L38. *Introduction to nanomagnetism (opening session)*
[Lecture (1h)] Magnetic single nano-object workshop and school 2008 – M-SNOW'08, Nancy, France, Nov.23-27th, 2008.
- L37. *Self-assembled magnetic nanostructures*
[Seminar (1h)] National Laboratory of Solid State Microstructures, Department of Physics, Nanjing University (China), June 23rd, 2008.
- L36. *Auto-organisation versatile de tranchées nanométriques par épitaxie - Application au magnétisme*
[Seminar (1h)] Laboratoire de Physique et Chimie des Nano-Objets (LPCNO), Toulouse, January 17th, 2008.
- Lxx. **Invitation déclinée**
 School "Science and Technology at Nanoscale", Tchèque, 16-21 juin 2008 (recouvrement avec un autre workshop).

2007

- L35. *Self-organized epitaxy of uniaxial templates grown on commercial wafers for the fabrication on magnetic wires*
[Seminar (1h)] Univ. Köln (group Michely), Köln, Germany, Decembre 11th, 2007.
- L34. *Open questions in magnetism (closure session)*
[Lecture (1h)] European School on Magnetism 2007 : New magnetic materials and their functions, Cluj, Romania, Sept.9-18th, 2007.
- L33. *Magnetization processes in nanoparticles*
[Lecture (4h)] European School on Magnetism 2007 : New magnetic materials and their functions, Cluj, Romania, Sept.9-18th, 2007.
- L32. *Magnetization processes inside domain walls*
[Seminar (1h)] MPI für Mikrostrukturphysik, Halle, Germany, August 7th, 2007.
31. *Short lecture on magnetization reversal: old and newer stuff*
[Seminar (1h)] MPI für Mikrostrukturphysik, Halle, Germany, July 31st, 2007.
- L30. *Nanomagnetism and spin electronics*
[PhD series of lectures (16 h)] Cours de l'école doctorale de physique de Grenoble.
- L29. *Croissance et magnétisme de nanofils auto-organisés de Fe(110)*
[Seminar (1h)] Condensed Mater Physics Lab, Ecole Polytechnique, Palaiseau, France, March 22nd, 2007.
- L28. *Epitaxial self-assembly for magnetic materials: from anisotropy at the nanoscale to micromagnetism at the microscale*
[Seminar (1h)] MPI für solid state research, Nanoscale Science Department (Pr. K. Kern), Stuttgart, Germany, Jan.24th, 2007.
- L27. *Epitaxial self-assembly for magnetic materials: from anisotropy at the nanoscale to micromagnetism at the microscale*
[Seminar (1h)] Forschungszentrum Jülich, Methods and Instruments Department (Pr. Brückel), Germany, Jan.22nd, 2007.

2006

- Lxx. **Invitation déclinée**
 Ecole doctorale de Rabat (Maroc), 4-7 décembre 2006 (obligations du comité national du CNRS).
- Lxx. **Invitation déclinée**
 ILL scientists' outing 2006, Vogues (Ardèche), 23-24 octobre 2006 (session d'automne du comité national du CNRS).

- L26. *Epitaxial self-assembly of magnetic materials for physics from the nano to the microscale*
[Seminar (1h)] MPI für Mikrostrukturphysik, Halle, Germany, 21st Sep 2006.
- L25. *Enregistrement magnétique : évolutions et révolutions*
[Lecture (1h)] École de Science des Surfaces de Porquerolles, Nanosciences et nanotechnologies, des connaissances fondamentales aux dernières avancées, Porquerolles, France, June26-July2nd, 2006.
- L24. *(Quelques) tendances et défis du magnétisme en dimensions réduites*
[Lecture (1 h)] École thématique des 14èmes Journées de la diffusion neutronique, Murol (Puy de Dôme) : Surfaces, Interfaces, Milieux confinés par diffusion de Neutrons, 14-17 mai 2006.
- L23. *Nanomagnetism and spin electronics*
[PhD series of lectures (18 h)] Cours de l'école doctorale de physique de Grenoble.

2005

- L22. *Preparation of Nano-objects, Physical methods (clusters, self-organized systems).*
[Lecture (2h)] European School on Magnetism : New Experimental Approaches in Magnetism, Constanta, Rumania, Sept. 7-16th, 2005.
- L21. *Magnetic properties of self-organized nanostructures*
[Lecture (1h)] Self-organized nanostructures, Marie Curie Conferences and Training Courses series, Cargèse, France, July. 18-23rd, 2005.
- L20. *Epitaxial self-organization: from surfaces to magnetic materials*
[Seminar (1h)] LTPCM, Grenoble, 16th June 2005.
- L19. *Self-assembled Fe(110) nanostructures: a wealth of growth and model systems for micromagnetism*
[Seminar (1h)] Scanning Probe Microscopy group, Institute of Applied Physics, University of Hamburg, 6th June 2005.
- L18. *Enregistrement magnétique sur des nanostructures*
[SFP-UDPC workshop seminar (1h)] Lyon, 23 mars 2005. (the French Physical Society and the Society of Physics and Chemistry Teachers)

2004

- L17. *Self-organization of magnetic nanostructures on surfaces*
[Lectures (1h30)] Heraeus summer school, Physik der Magnetischen Nanostrukturen, Halle, Germany, Sept. 13-24th 2004.
- L16. *Self-assembly of magnetic nanostructures : a contribution to magnetic materials*
[Seminar (1h)] Quantum nanoscale laboratory, Frontier Research Systems, RIKEN, Wako campus (Tokyo, Japon), 2nd August 2004.
- L15. *Self-assembly and self-organization : an overview - Application to magnetic materials.*
[Lectures (2h)] 3rd Advanced Science Institute, topic, New Frontiers of Functional Materials (Japanese Society for the Promotion of Science), Miyagi, Sendai, Japan, 26-31th Aug. 2004.
- L14. *Auto-assemblage de nanostructures magnétiques: des surfaces vers les matériaux ?*
[Seminar (1h)] Laboratoire de Physique des Solides (Orsay, France), 14th June 2004.

2003

- L13. *Nanomagnétisme: des concepts aux matériaux.*

[Lectures (2h)] Séminaire Daniel Dautreppe 2003 : Les Matériaux : champ d'étude pour la Physique, Grenoble, France, 20-24 oct. 2003.

L12b. Self-organization on surfaces - an overview.

[Lectures (1h)] École d'été Magnétisme des systèmes nanoscopiques et structures hybrides, Brasov, Roumaine, 1-10 sept. 2003.

L12. Low-dimensional magnetism - experiments.

[Lectures (2h)] École d'été Magnétisme des systèmes nanoscopiques et structures hybrides, Brasov, Roumaine, 1-10 sept. 2003.

L11. Validité des coefficients de champ démagnétisant: corps macroscopiques et nanostructures

[Seminar (1h)] Spintec, Grenoble, France, 27 juin 2003.

2002

L10. Self-organized growth on the Au(111) reconstructed surface : a wonderful tool for fundamental research, a wonderful toy for researchers.

[Seminar (1h)] IBM Research Center, Zürich, Suisse, 4 mars 2002.

2001

L9. Patterned and self-organized magnetic nanostructures

[PhD lectures (8h)] Cours à l'Université KTH de Stockholm; Invitation: Pr. Rao. Destination: étudiants et étudiants/thésards. 18-19 octobre 2001 (Stockholm, Suède).

L8. Croissance et magnétisme de nanocolonnes verticales de Co, auto-organisées sur la surface d'Au(111)

[Seminar (1h)] Séminaire du 'Nanoelectronics Research Institute' (AIST), Tsukuba, Japon, 7 août 2001.

L7. Croissance et magnétisme de nanocolonnes verticales de Co, auto-organisées sur la surface d'Au(111)

[Seminar (1h)] Séminaire du département de physique de 'Gunma University' (Kiryu, Japon), 9 août 2001.

1999

L6. Croissance et magnétisme de nanocolonnes verticales de Co, auto-organisées sur la surface d'Au(111)

[Seminar (1h)] Séminaire du LPS Nancy, 7 avril 1999.

L5. Croissance et magnétisme de nanocolonnes verticales de Co, auto-organisées sur la surface d'Au(111)

[Seminar (1h)] Séminaire GEMME/GSI de l'IPCMS, Strasbourg, 22 avril 1999.

L4. Croissance et magnétisme de nanocolonnes verticales de Co, auto-organisées sur la surface d'Au(111)

[Seminar (1h)] Séminaire du SP2M (CEA/DRFMC, Grenoble), 16 novembre 1999.

1998

L3. Processus de renversement de l'aimantation dans les plots ultraminces à anisotropie planaire

[Seminar (1h)] Séminaire IFW (Dresde, Allemagne), 19 novembre 1998.

L2. Modes de croissance des couches de Mo(110) et W(110) sur $Al_2O_3(11-20)$

[Seminar (1h)] Groupe 'Quantronique', CEA Saclay, 27 octobre 1998.

1996

L1. *Des couches ultraminces aux plots submicroniques épitaxiés de Fe(110)/W(110) : vers un retournement cohérent de l'aimantation?*

[Seminar (1h)] Séminaire du Laboratoire Louis Néel, 25 novembre 1996.

7. Workshops and Schools : participations

Contributions to contract meetings and international agreements are not listed, neither are those invited (listed above).

TOTAL = 12

Type of contributions :

- Oral, international : 3
- Oral, national : 6
- Poster : 1
- No communication 2

2016

W12. [Participation] Colloque Louis Néel, mars 2016, Saint Dié (France).

2010

W11. [Participation] Graphene School, 12-22 octobre 2010, Cargèse (France).

2006

W10. *Magnetization patterns and domain wall manipulation in fe/mo(110) self-assembled islands*

[Oral (20min)] First meeting on solid state physics between Grenoble/CNRS and Beijing/IoP-CAS, 27-30 november 2006, Grenoble.

W9. *Configurations micromagnétiques 3D dans des plots auto-assemblés Fe(110): une étude combinée LEEM/XMCD-PEEM*

[Oral (30min)] Séminaires rayonnement synchrotron de Grenoble, Journée *Croissance et Auto-organisation*, 11 avril 2006, Grenoble.

2001

W8. *Magnetization reversal in nanostructures*

[Oral (30min)] Workshop au MPI-Halle, destiné à mettre en place un Laboratoire Européen Associé (LEA) MPI-Halle/LLN-CNRS, 4-5 octobre 2001 (Halle, Allemagne).

2000

- W7. Retournement quasi-statique de l'aimantation dans des plots plats ultraminces à anisotropie uniaxiale dans le plan
[Oral (35min)] Workshop "Magnetic imaging of nanostructures" (European Science Foundation), Regensburg (Allemagne), 11-13 mai 2000.
- W6. Renversement d'aimantation de plots auto-assemblés
[Oral (25min)] Réunion "Magnetic properties of artificial and self-organized nanostructures" (European Science Foundation), Uppsala (Suède), 14-16 septembre 2000.
- W5. Croissance et magnétisme de nanocolonnes verticales de Co, auto-organisées sur la surface d'Au(111)
[Oral (30min)] Journées surfaces/interfaces de l'Institut de la Physique de la Matière Condensée (IPMC), Grenoble, 6-7 janvier 2000.

1999

- W4. Mécanismes de renversement de l'aimantation dans des plots ultraminces submicroniques de Fe(110) à anisotropie dans le plan
[Poster] École thématique du GdR 'POMMES', Magnéto-électronique de Spin, Aussois (France), 4-8 janvier 1999.

1998

- W3. Processus de renversement de l'aimantation dans les plots ultraminces à anisotropie planaire
[Oral (45min)] Journées surfaces et interfaces magnétiques (laboratoires européens associés IPCMS-Strasbourg/MPI-Halle), 12-15 décembre 1998.

1996

- W2. Des couches ultraminces aux plots submicroniques épitaxiés de Fe(110)/W(110) : vers un retournement cohérent de l'aimantation?
[Oral (30min)] réunion du GdR «Nanostructures Magnétiques» du Col de Porte, septembre 1996.
- W1. Projet de nanolithographie par irradiation d'ions lourds
[Oral (15min)] réunion «dépôt électrolytique de nanostructures magnétiques» du GdR «Nanostructures Magnétiques», Gif-sur-Yvette, décembre 1996.

8. Other publications : chapters, editor etc.

TOTAL = 10

Type of publications :

- Book chapter : 2
- Scientific dissemination : 6
- Guest Editor : 2

2014

- D10. Head-to-head domain walls in one-dimensional nanostructures: an extended phase diagram ranging from strips to cylindrical wires

S. Jamet, N. Rougemaille, J. C. Toussaint, O. Fruchart,
in *Magnetic Nano- and Microwires: Design, synthesis, properties and applications*, M. Vázquez Ed., Woodhead. 2015 (<http://fr.arxiv.org/abs/1412.0679>)

2009

- D9. **Magnets of Lilliput.**
O. Fruchart,
ELETTRA Highlights 2008-2009, p.51.
- D8. **How many bits can fit in a single magnetic dot? XMCD-PEEM evidences the switching of Néel caps inside Bloch domain walls.**
F. Cheynis, A. Masseboeuf, O. Fruchart, N. Rougemaille, J. C. Toussaint, R. Belkhou, P. Bayle-Guillemaud, A. Marty,
ELETTRA Highlights 2008-2009, p.54.
- D7. **Manipulation de « bits » magnétiques dans une nanostructure magnétique : Une étude par imagerie magnétique XMCD-PEEM**
F. Cheynis, A. Masseboeuf, O. Fruchart, J. C. Toussaint, N. Rougemaille, R. Belkhou, P. Bayle-Guillemaud, A. Marty
Rayon de soleil (2009).

2008

- D6. **Reflets de la physique : série de trois numéros spéciaux sur l'électronique de spin**
Éditeur invité. Auteurs: A. Fert; B. Diény; JP Nozières, C. Fermon, Cibert-Barthélémy-Bowen.

2007

- D5. **Une approche bottom-up pour le nanomagnétisme : auto-organisation de fils de fer monocristallins**
B. Borca, O. Fruchart, C. Meyer,
Le mensuel de l'Université (2007). [http://www.lemensuel.net/article.php?id_article=945]
- D4b. **Couches minces et nanostructures magnétiques (partie 2)**
O. Fruchart,
Techniques de l'Ingénieur, Vol.E2 (électronique), E 2 151-1-14 (2007).
- D4. **Couches minces et nanostructures magnétiques (partie 1)**
O. Fruchart,
Techniques de l'Ingénieur, Vol.E2 (électronique), E 2 150-1-15 (2007).

2005

- D3. **Self-organization on surfaces: foreword**
O. Fruchart,
C. R. Physique 6 (1), 3-9 (2005). Special Issue on self-organization.
Éditeur en chef. Premiers auteurs des contributions : S. Rousset, T. Metzger, H. Mariette, J. Eymery, G. Springholz, P. Gambardella, B. Chaudret, O. Pierre-Louis, O. Fruchart.

2004

- D2. **Super-cell crystallography of self-organized deposits**

O. Fruchart, G. Renaud, A. Barbier, M. Noblet, O. Ulrich, J.-P. Deville, F. Scheurer, J. Mane-Mane, V. Repain, G. Baudot, S. Rousset,
ESRF Highlights 2003.

2003

- D1.* **Nanomagnétisme : des domaines confinés au magnétisme moléculaire**
O. Fruchart, E. Bonet, J.-C. Toussaint, W. Wernsdorfer,
Bull. Soc. Fr. Phys. 139, 11-17 (2003).