

Oraux session 1 : Optique et dynamique ultra-rapide

- Single-shot all-optical magnetization switching in ferrimagnetic Co-RE alloys single layers
B. Kuniyanguyen, G. Malinowski, D. Lacour, J.-X. Lin, Y. Le Guen, J. Gorchon, S. Mangin, J. Hohlfield, M. Hehn
- All-optical helicity-dependent switching in magneto-plasmonic nanostructures
Y. Le Guen, J. Hohlfield, M. Hehn, S. Mangin, S. van Dijken
- Ultrafast dynamics of magnetic structure in ferrimagnetic CoTb thin films
Mohamed El Moundji Hemili, Anju Ahlawat, Renaud Delaunay, Valentin Chardonnet, Jan Lüning, Clemens Von Korff Schmising, Bastian Pfau, Michel Hehn, Flavio Capotondi, Gheorghe Sorin Chiuzbăian, Emmanuelle Jal, Marcel Hennes, Boris Vodungbo
- Magneto-optical distinction of magnetization dynamics from spin currents and its role in switching mechanism in ferromagnetic spin valve
Harjinder Singh, Alberto Anadón, Quentin Remy, Michel Hehn, Gregory Malinowski, Jon Gorchon
- Magnetization switching for circular polarized LEDs
Rodrigo Torrão Victor, Pambiang Abel Dainone, Sophie Collin, Florian Godel, Nicolas Reyren, Yuan Lu, Henri Jaffres, Jean-Marie George
- Exciting and probing high-frequency spin waves in BiYIG/Co heterostructure using laser pulses
Dimple Sneha Pamarthi, Elena Popova, Nirina Randrianantoandro, Gwenaëlle Vaudel, Pascal Ruello, Michel Hehn, Niels Keller, Marwan Deb

Oraux session 2 : Nanomagnétisme et dynamique

- Complex dynamics of nano-oscillators with dual vortex free layers coupled via spin-torques
Loukas Kokkinos, Joo-Von Kim
- Excitation of vortex gyration through non-linear interaction with Floquet magnon modes
Gauthier Philippe, Joo-Von Kim
- Complexity Analysis of Chaotic Magnetization Dynamics
Amel Kolli, Hugo Merbouche, Grégoire de Loubens, Sébastien Petit-Watelot, Slavisa Jovanovic, Joo-Von Kim, Damien Rontani
- Development of an ultrasensitive skyrmion-based magnetic field sensor
Lucia Malucelli, Mariana Caseiro, Isabelle Joumard, Eyub Yildiz, Nicolas Mollard, Stéphane Auffret, Jérôme Faure-Vincent, Claire Baraduc, Claude Fermon, Aurélie Solognac, Myriam Pannetier-Lecoeur, Johanna Fischer, Hélène Béa
- Antiferromagnetic order control in 2D CrSBr
Clément Pellet-Mary
- Imaging magnetic vortices in a van der Waals magnet at room temperature with scanning NV magnetometry
Carolin Schrader, Elias Sfeir, Mário Ribeiro, Giulio Gentile, Alain Marty, Céline Vergnaud, Frédéric Bonell, Isabelle Robert-Philip, Matthieu Jamet, Vincent Jacques, Aurore Finco

Oraux session 3 : Spintronique et matériaux

- Composition-dependent charge-to-spin current conversion in topological insulators $\text{Bi}_{1-x}\text{Sb}_x$ thin films
D.P.G. Nyoma, M.S. Dehaghani, M.A. Khaled, S. Fekraoui, R. Daubriac, C. Bigi, F. Bertran, Q. Gravelier, A. Arnoult, R. Monflier, L. Petit, B. Lassagne, C. Durand, S.R. Plissard, T. Blon
- Spin-dependent transport properties of epitaxial DyVO_3 and GdVO_3 thin films on (110)-oriented NdGaO_3 substrate
Mariam Martirosyan, Sébastien Petit-Watelot, Jaafar Ghanbaja, Ludovic Pasquier, Sylvie Migot, Karine Dusmenil, Pierre-Eymeric Janolin, Alexandre Bataille, Alessandro Coati, Andrea Resta, Alina Vlad, Olivier Copie
- Large Orbital Rashba Edelstein Effect induced Torques in Atomically Thin Co/Al Systems
Nicolas Sebe, Sachin Krishnia, Sougata Mallick, Armando Pezo, Sergey Nikolaev, Yanis Sassi, Sophie Collin, Thibaud Denneulin, András Kovács, Rafal E. Dunin-Borkowski, Albert Fert, Jean-Marie George, Kévin Garello, Vincent Cros, Henri Jaffrès
- Alternative harmonic detection approach for quantitative determination of spin and orbital torques
Y. Xu, B. Bony, S. Krishnia, R. Torrão Victor, S. Collin, A. Fert, J.-M. George, V. Cros, H. Jaffrès

- Proximity Effects In Superconductor/Magnetic Epitaxial Heterostructures With Magnetic Noncollinearity
H.C. Tadaa, L. Pasquier, S. Wang, J.W.A. Robinson, T. Hauet, K. Dumesnil
- Orbital-to-spin conversion material exploration for improving SOT-MTJ performances
M. Biagi, C. C. M. Capriata, C. Bouchard, L. Hutin, B. Viala, R. Sousa, K. Garello
- Low Temperature Out-of-Plane Nonlinear Hall Effect in Epitaxial GeTe
Théo Frottier, Diego García Ovalle, Michael Wissmann, Panagiotis Pappas, Williams Savero Torres, Maxime Culot, Paolo Sgarro, Boris Croes, Jean-Philippe Attané, Pierre Noé, Aurélien Manchon, Frédéric Leroy, Fabien Cheynis, Laurent Vila

Oraux session 4 : Systèmes neuro-inspirés

- Synaptic metaplasticity in a magnetoionic synapse
Himadri Nandan Mohanty, Guillaume Bernard, Kellian Cottart, Maria-Andromachi Syskaki, Alan Durnez, Juergen Langer, Damien Querlioz, Liza Herrera Diez
- Neuromorphic weighted sums with magnetic skyrmions
Tristan da Câmara Santa Clara Gomes, Yanis Sassi, Dedalo Sanz-Hernandez, Sachin Krishnia, Marie-Blandine Martin, Pierre Seneor, Tanvi Bhatnagar-Schöffmann, Dafiné Ravelosona, Damien Querlioz, Liza Herrera-Diez, Vincent Cros, Julie Grollier, Nicolas Reyren
- Dynamic control of weight-update linearity in magneto-ionic synapses
Guillaume Bernard, Kellian Cottart, Maria-Andromachi Syskaki, Victor Porée, Andrea Resta, Alessandro Nicolaou, Alan Durnez, Shimpei Ono, Ariam Mora Hernandez, Juergen Langer, Damien Querlioz, Liza Herrera Diez
- Exploiting spin textures in a magnetic tunnel junction for logic and neuromorphic computing applications
Ilaria Di Manici, Rodrigo Guedas Garcia, Florian Disdier, Sebastien Wintz, Rachid Belkhou, Bruno Fernandez, Stephane Auffret, Philippe Talatchian, Gilles Gaudin, Olivier Boulle
- Towards a spintronic Ising Machine simulator
Chloé Chopin, Abderrazak Hakam, Mateo Ibarra Gomez, Liliana D. Buda-Prejbeanu, Simon de Wergifosse, Flavio Abreu Araujo, Erwan Aubouin, Louis Hutin, Franck Badets, Philippe Talatchian, Ursula Ebels
- Experimental implementation of a programmable Ising Machine using vortex-based Spin-Torque Nano-Oscillators
Abderrazak Hakam, Leandro Martins, Louis Hutin, Franck Badets, Luana Benetti, Alex Jenkins, Ricardo Ferreira, Philippe Talatchian, Ursula Ebels
- Non-volatile binary radio-frequency synapses using vortex polarities
M. Menshawy, L. Mazza, V. Puliafito, M. Carpentieri, A. Jenkins, R. Ferreira, L. Benetti, A. Schulman, D. Sanz-Hernández, J. Grollier, F.A. Mizrahi

Oraux session 5 : Ondes de spin & imagerie

- Spatially Resolved Investigation of Spin Wave Frequency Multiplication
Roméo Beignon, Chris Körner, Rouven Dreyer, Georg Woltersdorf, Vincent Jacques, Aurore Finco
- Imaging of domain-wall motion and spin-wave propagation in cylindrical nanowires with a 3D core-shell magnetization distribution
L. Gómez-Cruz, L. Álvaro-Gómez, C. Fernández-González, N. Martin, S. Ruiz-Gómez, L. Aballe, E. Pereiro, R. Belkhou, A. Masseboeuf, O. Fruchart, L. Pérez
- Magneto-resistive detection of spin-waves
Quentin ROSSI, Hicham MAJJAD, Grégoire DE LOUBENS, Hugo MERBOUCHE, Igor NGOUAGNIA, Aurélie SOLIGNAC, Matthieu BAILLEUL
- Unravelling spin-wave propagation regimes using NV magnetometry
Julien Berthomier, Romain Lebrun, Karim Bouzehouane, Vincent Cros, Marie-Pierre Adam, Jean-François Roch, Jamal Ben Youssef, Abdelmadjid Anane
- Imaging spin waves by Electron Holography
M. Resano, C. Gatel, N. Biziere
- Spectroscopy of the spin wave acoustic mode in synthetic antiferromagnets
G. Y. Thiancourt, S. M. Ngom, N. Bardou, T. Devolder

Oraux session 6 : Magnéto-phononique & ondes

- Giant magneto-elasticity & strong phonon-magnon coupling in FeRh.
D. Ourdani, C. Gourdon, B. Perrin, V. Uhlíř, J. A. Arregi, Y. Roussigné, L. Thevenard
- Phononic manipulation of magnetic domains in Co-doped YIG : from a labyrinth to stripes and bubbles
Héloïse Damas, C. S. Davies, V. I. Belotelov, A. Stupakiewicz, A. Kirilyuk
- Coupling the orbital angular momentum of elastic waves with the gyromotion of a magnetic vortex
Olivetti G., Pigeau B., Yamamoto K., Valet T., Otani Y., Klein O.
- Structural and Magnetic Insights into Ti/Mn-Substituted Hexaferrite Thick Films for Applications beyond 20 GHz
Maria Jose Vazquez Bernardes, Daniel Stoeffler, Christophe Lefevre, Laurent Schlur, Matthieu Bailleul, Nicolas Vukadinovic
- A study of non-reciprocal behaviors in multi-sphere loaded chiral cavity
Maxime Ardisson, Julien Haumant, Romain Lebrun, Isabella Boventer, Vincent Castel
- Experimental observations of Suhl instabilities in a 500nm Bismuth Yttrium Iron Garnet disk
Sali Salama, Joo-Von Kim, Jamal Ben Youssef, Maryam Massouras, Ping Che, Abdelmadjid Anane, Jean-Paul Adam

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