



POSTER SESSION

THURSDAY, AUGUST 31ST – 15:45-17:15 – GROUND FLOOR

S02-THU-02

EXTRAORDINARY MAGNETORESISTANCE IN A 2-TERMINAL STRUCTURE

Jérémy Létang¹, Stefano Lumetti¹, Perla Malagò¹, Stefan Dan Costea², Wolfgang Hauer³, Jürgen Kosel¹, Michael Ortner¹.

¹Silicon Austria Labs, Villach, Austria; ²Eaton European Innovation Centerr, Roztoky u Prahy, Czech Republic; ³Eaton Industries GmbH, Vienna, Austria.

S02-THU-03

GROWTH OF ATOMICALLY FLAT INSULATING MGO FILMS ON FE(001) USING INTERFACE OXYGEN PRE-COATING

Toyo Kazu Yamada, Nana Nazriq, Kyosei Ishii, Peter Krueger.
Chiba University, Chiba, Japan.

S02-THU-04

STUDY OF MAGNETORESISTIVE BEHAVIOUR OF LSMO THIN FILMS TOWARDS OPTIMISE AMR BIOSENSORS

Inés García Manuz¹, Raúl Solís², Jose Manuel Díez¹, Guillermo De Arana³, Jose Luis Fernández Cuñado³, Adrián Gudín³, Luiz Enger⁴, Bruno Guillet⁴, Laurence Méchin⁴, Stéphane Flament⁴, Paolo Perna³, Julio Camarero De Diego¹.

¹Universidad Autónoma de Madrid // IMDEA-Nanoscience, Madrid, Spain; ²IMDEA-Nanoscience // CNRS GREYC ENSICAEN UNICAEN, Madrid // Caen, Spain; ³IMDEA- Nanoscience, Madrid, Spain; ⁴CNRS GREYC ENSICAEN UNICAEN, Caen, France.

S02-THU-05

TUNING THE PERPENDICULAR MAGNETIC ANISOTROPY OF COFEB AND CO₂MNGA FOR VOLTAGE TUNEABLE MAGNETORESISTIVE SENSORS

Atif Islam, Anmol Mahendra, Susant Acharya, Yao Zhang, Simon Granville.

Robinson Research Institute, Victoria University of Wellington, Wellington, New Zealand.

S02-THU-06

MAGNETIC SENSORS BASED ON MTJS WITH THICK AMORPHOUS FREE LAYER

Elvira Paz, Artem Talantsev, Alex Jenkins, Ricardo Ferreira.

INL - International Iberian Nanotechnology Laboratory, Braga, Portugal.

S02-THU-07

HIGH SENSITIVITY AMPLIFICATION IN SYMMETRIC RESPONSE MAGNETIC TUNNEL JUNCTION WITH FLUX CONCENTRATORS

Thomas Brun¹, Samuel Manceau¹, Clarisse Ducruet², Philippe Sabon¹, Claude Cavoit³, Guillaume Jannet³, Ioan-Lucian Prejbeanu¹, Matthieu Kretzschmar³, Claire Baraduc¹.

¹CEA/CNRS/SPINTEC, Grenoble, France; ²Crocus Technology, Grenoble, France;

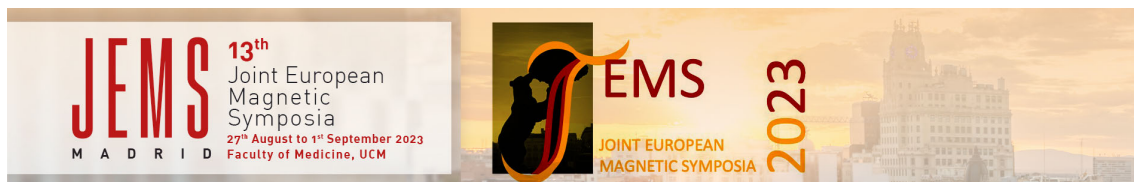
³CNRS/LPC2E, Orléans, France.

S02-THU-10

PROGRAMMABLE MULTISTATE MEMORY AND SPIN LOGIC CELL

Yufeng Tian, Yanxue Chen, Lihui Bai, Shishen Yan.

Shandong University, Jinan, China.



S03-THU-01

OPEN DESIGN VERY LOW FIELD MRI FOR PRETERM BABIES

Denitsa Nencheva-Tognini, Claude Fermon.
CEA de Saclay, Gif sur Yvette, France.

S03-THU-02

SYNTHESIS OF PROTEIN MICROBUBBLES ENDOWED WITH IRON OXIDE NANOCRYSTALS FOR MAGNETIC MANIPULATION AND HEAT DELIVERY

Julia Majcherkiewicz¹, Haiyan Zu², Francesca Cavalieri³, Muthupandian Ashokkumar², Verónica Salgueiriño¹.

¹Universidade de Vigo, Vigo, Spain; ²University of Melbourne, Melbourne, Australia; ³Università degli Studi di Roma Tor Vergata, Roma, Italy.

S03-THU-03

INFLUENCE OF THE MAGNETOSOME MORPHOLOGY IN THE MAGNETIC HYPERTHERMIA RESPONSE OF DIFFERENT MAGNETOTACTIC BACTERIA SPECIES

Danny Yosmar Villanueva Alvaro¹, Lucía Gandarias¹, David Gandía¹, Lourdes Marcano², Alicia G. Gubieda¹, Ana Abad¹, Javier Alonso¹, Ana García Prieto¹, David De Cos¹, Ma. Luisa Fdez-Gubieda¹.

¹Universidad del país vasco (UPV/EHU), Leioa, Spain; ²Universidad de Oviedo, Oviedo, Spain.

S03-THU-04

OPTIMIZATION OF A MICROWAVE-ASSISTED CONTINUOUS-FLOW SETUP FOR RAPID FE₃O₄ NANOPARTICLES SYNTHESIS

Konstantinos Simeonidis¹, Theopoula Asimakidou¹, Christina Virgiliou¹, Nikolaos Maniotis¹, Maria Del Puerto Morales², Sabino Veintemillas Verdaguer³.

¹Aristotle University of Thessaloniki, Thessaloniki, Greece; ²ICMM-CSIC, Madrid, Spain; ³ICMM-CSIC, Madrid, Greece.

S03-THU-05

A NEW THERAPY FOR ADIPOSOPATHY BASED ON LOW FREQUENCY AC FIELD APPLICATIONS ON MAGNETIC NANOPARTICLES

Elena Balica¹, Martin Albino², Alessio Gabbani³, Beatrice Muzzi², Claudia Innocenti², Claudio Sangregorio⁴.

¹INSTM and Dept. of Industrial Engineering, University of Florence, Florence, Italy; ²INSTM and Dept. of Chemistry U. Schiff, University of Florence, Florence, Italy; ³University of Pisa, Pisa, Italy; ⁴ICCOM-CNR, Florence, Italy.

S03-THU-06

MULTI-DETECTOR PLATFORM FOR ANALYZING THE INTERACTION OF MAGNETIC NANOPARTICLES IN BIOLOGICAL ENVIRONMENTS

Amani Remmo¹, Norbert Loewa², Lena Kampen³, Antje Ludwig³, Frank Wiekhorst¹.

¹Physikalisch-Technische Bundesanstalt Berlin, Berlin, Germany; ²Physikalisch-Technische Bundesanstalt Berlin, Berlin, Germany; ³Charite Berlin, Berlin, Germany.

S03-THU-07

FABRICATION OF 3D MAGNETORESPONSIVE NANO/MICROSTRUCTURES

Eider Berganza¹, George Mathew², Jorge Marqués-Marchán³, Alejandro Gomez-Roca⁴, Evgeniy Boltynjuk², Agustina Asenjo³, Michael Hirtz².

¹Instituto de Ciencia de Materiales de Madrid (ICMM), Consejo Superior de Investigaciones Científicas (CSIC), Sor Juana Ines de la Cruz 3, 29048 Madrid, Spain Institute of Nanotechnology (INT) & Karlsruhe Nano Micro Facility (KNMF), Karlsruhe Institute of Technology (KIT), Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany, Madrid, Spain; ²KIT, Karlsruhe, Germany; ³ICMM, Cantoblanco, Spain; ⁴ICN2, Barcelona, Spain.



S03-THU-08

BIOSENSOR BASED ON NANOLAYERED STRUCTURES FOR SARS-COV2 VIRUS DETECTION

Neerija Zurauskienė, Vilius Vertelis, Arunas Stirke, Eivydas Andriukonis, Andrius Maneikis, Skirmantas Kersulis, Voitech Stankevici.

Center for Physical Sciences and Technology, Vilnius, Lithuania.

S03-THU-09

IRON OXIDE NANOPARTICLES AS CHEMO-THERMAL AGENTS FOR EFFECTIVE CANCER TREATMENTS

Rosalía López-Méndez¹, Nuria Lafuente-Gómez¹, Marina París², Yurena Luengo¹, Aida Serrano³, Julio Camarero¹, Gorka Salas¹, Álvaro Somoza¹, Ana Espinosa¹.

¹IMDEA Nanociencia, Madrid, Spain; ²IMDEA Nanociencia y ICV-CSIC, Madrid, Spain; ³ICV-CSIC, Madrid, Spain.

S03-THU-10

INTERNALIZATION OF MAGNETIC NANODISK IN VORTEX STATE IN CANCER CELLS

Raquel Zurbano, Izaro Solozabal, Carolina Redondo, María Dolores Boyano, Rafael Morales. Universidad del País Vasco, Bilbao, Spain.

S03-THU-11

SILK FIBROIN FILMS WITH EMBEDDED MAGNETIC NANOPARTICLES PROMOTE THE OSTEOGENIC DIFFERENTIATION OF STEM CELLS

Lucia Del Bianco¹, Federico Spizzo¹, Yuejiao Yang², Gabriele Greco³, Maria Laura Gatto⁴, Gianni Barucca⁴, Nicola Maria Pugno², Antonella Motta².

¹University of Ferrara, Ferrara, Italy; ²University of Trento, Trento, Italy; ³Swedish University of Agricultural Sciences, Uppsala, Sweden; ⁴Università Politecnica delle Marche, Ancona, Italy.

S03-THU-12

MAGNETIC NANOPARTICLE DEGRADATION AND THE EFFECT ON THEIR HEATING PROPERTIES

Yilian Fernandez-Afonso, Laura Asín, Lilianne Beola, Raluca Fratila, Lucía Gutiérrez.

Universidad de Zaragoza, INMA, CIBER-BBN, Zaragoza, Spain.

S03-THU-13

EVALUATION OF MAGNETIC HYPERTHERMIA EFFICIENCY OF DIFFERENT MAGNETIC PARTICLES IN A LOW-COST MAGNETIC HYPERTHERMIA DEVICE

Teresa Castelo-Grande¹, Paulo Augusto², J.c Lobinho-Gomes³, Domingos Barbosa¹.

¹Faculty of Engineering of the University of Porto, Porto, Portugal; ²University of Salamanca, Salamanca, Spain; ³University Lusofona do Porto, Porto, Portugal.

S03-THU-14

TUNNEL MAGNETORESISTANCE - BASED SENSOR FOR DETECTION AND QUANTIFICATION OF VOLUME DISTRIBUTED MAGNETIC NANOPARTICLES

Crina Ghemes, Oana-Georgiana Dragos-Pinzaru, Mihai Tibu, Mihaela Lostun, Nicoleta Lupu, Horia Chiriac.

National Institute of Research and Development for Technical Physics, Iasi, Romania.

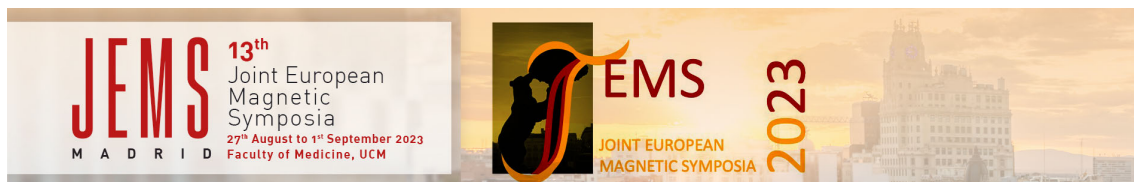
S03-THU-16

SPION TRAPPING UNDER LIQUID FLOW BY MAGNETOPHORESIS

Selin Ss Karakol¹, Bahar Gungordu¹, Lorin Doganturk¹, Nilay Gunduz Akdogan², Ozan Akdoğan¹.

¹BAHCESEHIR UNIVERSITY, İstanbul, Turkey; ²PIRI REIS UNIVERSITY, İstanbul, Turkey.

S03-THU-17



SYNTHETIC LIMB, IMPLANT AND PROSTHESIS FROM MAGNETIC MICROPARTICLE DOPED HYDROGEL

Ruya Sera Polat¹, Ileyna Uvak¹, Nilay G. Akdogan², Ozan Akdogan¹.

¹Bahcesehir University, Istanbul, Turkey; ²Piri Reis University, Istanbul, Turkey.

S03-THU-18

CAPTURING MAGNETIC NANOPARTICLES WITH EXTERNAL MAGNETIC FIELDS IN THE FLUIDIC FLOW

Sara Arjomandi¹, Imants Dirba¹, Semih Ener¹, Alina Filatova², Ulrike Nuber², Oliver Gutfleisch¹.

¹Functional Materials, Institute of Materials Science, Technical University of Darmstadt, Darmstadt, Germany; ²Biology, Stem Cell and Developmental Biology, Technical University of Darmstadt, Darmstadt, Germany.

S03-THU-19

TOWARDS HIGH MAGNETIZATION NANOPARTICLES FOR BIOMEDICAL APPLICATIONS

Imants Dirba¹, Yevhen Ablets¹, Kalthoum Riahi¹, Caroline Karina Chandra¹, Tomáš Kmječ², Lenka Kubíčková², Ondrej Kaman², Oliver Gutfleisch¹.

¹Functional Materials, Institute of Materials Science, Technical University of Darmstadt, Darmstadt, Germany; ²FZU - Institute of Physics of the Czech Academy of Sciences, Praha, Czech Republic.

S03-THU-20

IN SILICO ANALYSIS OF THE ROLE OF MAGNETIC FIELD APPLICATORS IN PRECLINICAL TESTS OF HYPERTHERMIA

Marta Vicentini, Riccardo Ferrero, Alessandra Manzin.

INRiM, Torino, Italy.

S03-THU-21

PREDICTION OF HYPERTHERMIA RESPONSE IN *IN VIVO* TESTS VERSUS MAGNETIC NANOPARTICLES TYPE

Marta Vicentini, Riccardo Ferrero, Alessandra Manzin.

INRiM, Torino, Italy.

S03-THU-22

NANOMAGNETIC FORCE IN ACTION: TOWARDS MAGNETICALLY GUIDED NERVE REGENERATION

Tasmin Nahar¹, Monte Gates¹, Emilie Secret², Jean Michelle Siaugue², Jerome Fresnais², Mike Rotherham³, Alicia El-Haj³, Neil Telling¹.

¹Keele University, Stoke-on-Trent, United Kingdom; ²Sorbonne Université, Paris, France;

³University of Birmingham, Birmingham, United Kingdom.

S03-THU-23

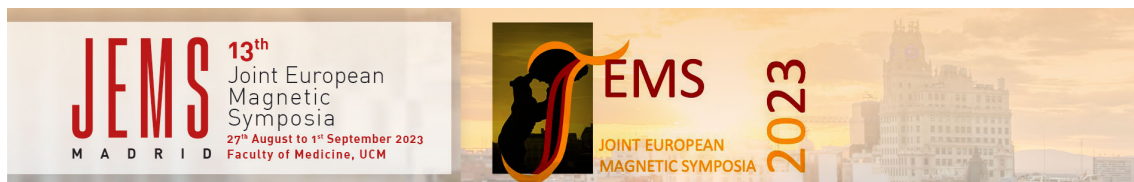
ENHANCING THE MAGNETIC RESPONSE OF CALCIUM PHOSPHATE-BASED POWDERS FOR BONE TISSUE REGENERATION

T. S. S. Carvalho¹, P. M. C. Torres¹, J. H. Belo², J. C. C. Abrantes³, D. Lopes¹, A. Kavaleuski¹, J. P. Araújo², M. Bañobre-Lopez⁴, S. M. Olhero¹.

¹Department of Materials and Ceramics Engineering (DEMaC), CICECO-Aveiro Institute of Materials, University of Aveiro, Aveiro, Portugal; ²Institute of Physics of Advanced Materials, Nanotechnology and Photonics (IFIMUP), Department of Physics and Astronomy, University of Porto, Porto, Portugal; ³proMetheus, Polytechnic Institute of Viana do Castelo, Viana do Castelo, Portugal; ⁴Diagnostic Tools & Methods/Advanced (Magnetic) Theranostic Nanostructures Lab, International Iberian Nanotechnology Laboratory (INL), Braga, Portugal.

S04-THU-01

ELECTRICAL TWO-QUBIT GATES WITHIN A PAIR OF CLOCK-QUBIT MAGNETIC MOLECULES



Alejandro Gaita-Ariño, Ziqi Hu, Aman Ullah, Jesús Cerdá, Juan Aragón.
ICMol - Universitat de València, Valencia, Spain.

S04-THU-03

THE COUPLING PHASE IN MICROWAVE CAVITY MAGNONICS

Alan Gardin¹, Jeremy Bourhill², Vincent Vlaminck¹, Christian Person¹, Christophe Fumeaux³, Vincent Castel¹, Giuseppe Tettamanzi³.

¹IMT Atlantique, Brest, France; ²University of Western Australia, Perth, Australia; ³University of Adelaide, Adelaide, Australia.

S04-THU-05

STRONG TO ULTRA-STRONG COUPLING IN A YIG/CAVITY SYSTEM

Guillaume Bourcin¹, Jeremy Bourhill², Vincent Vlaminck¹, Vincent Castel¹.

¹IMT Atlantique, Brest, France; ²University of Western Australia, Perth, Australia.

S04-THU-06

SCANNING NV MAGNETOMETRY OF FOCUSED-ELECTRON-BEAM-GROWN COBALT NANOMAGNETS FOR SPIN QUBIT CONTROL

Liza Zaper¹, Peter Rickhaus¹, Boris Gross², Marcus Wyss³, Martino Poggio², Floris Braakman².

¹Qnami, Muttenz, Switzerland; ²University of Basel, Basel, Switzerland; ³Swiss Nanoscience Institute, Basel, Switzerland.

S07-THU-01

UNTANGLING THE ROLE OF CARBON IN THE MAGNETIC COUPLING OF NI@C NANOPARTICLES

Mona Mahmoud Fadel Abdel Aziz¹, Pablo Álvarez-Alonso², Jesús A. Blanco³, Pedro Gorria³.

¹Oviedo university, Oviedo, Spain; ²National Institute of carbon CSIC, Oviedo, Spain; ³University of Oviedo, Oviedo, Spain.

S07-THU-02

OPTIMIZATION AND HARMONIC RESPONSE OF GD³⁺-DOPED MNFE₂O₄ NANOPARTICLES FOR MPI APPLICATIONS

Takeshi Sakamoto, Ikumi Kawaguchi, Kentaro Ohara, Kenta Nakazawa, Kazune Nii, Tomomasa Moriwaki, Yohei Fujita, H. Amano, Shuta Kobayashi, Taishu Shimohama, Yuko Ichiyanagi.

Yokohama National University, Yokohama, Japan.

S07-THU-05

FERRITE-BASED NANOCOMPOSITES AS RANDOM FIELD MAGNETS

Jaume Calvo-De La Rosa, Joan Manel Hernández, Jose Maria Lopez-Villegas, Antoni García-Santiago, Javier Tejada.

Universitat de Barcelona, Barcelona, Spain.

S07-THU-06

LOW-TEMPERATURE PHASE TRANSITION IN DY ALUMINOBORATE

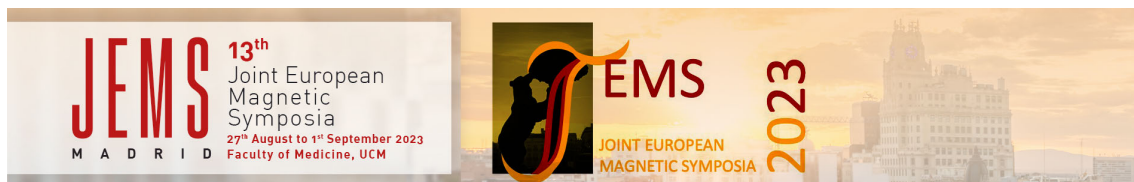
Tatiana Zajarniuk¹, Andrzej Szewczyk¹, Elsa Lhotel², Maria Gutowska¹, Wojciech Szuszkiewicz¹, Sylvain Petit³, Andrey Prokhorov⁴, Roman Puzniak¹, Henryk Szymczak¹.

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S07-THU-07

MAGNETIC CATIONIC EFFECT DEPENDING ON MICROSTRUCTURE IN COPPER FERRITE

Miguel Angel Cobos Fernandez¹, Jose Antonio Jimenez Rodriguez², Irene Llorente Carrasco², Antonio Hernando Grande¹, Patricia De La Presa³.



¹INSTITUTO DE MAGNETISMO APLICADO (UCM), MADRID, Spain; ²CENIM(CSIC), MADRID, Spain; ³INSTITUTO DE MAGNETISMO APLICADO(UCM), MADRID, Spain.

S07-THU-09

PHOTOTHERMAL EFFECTS IN IRON OXIDE NANOPARTICLES WITH DIFFERENT OXIDATION STATES.

Daniel Arranz López¹, Rosa Weigand², Patricia De La Presa¹.

¹Instituto de Magnetismo Aplicado, Las Rozas de Madrid, Spain; ²Universidad Complutense de Madrid, Madrid, Spain.

S07-THU-10

MAGNETO-AMPLIFICATION OF VISIBLE-LIGHT-DRIVEN TOTAL PHOTODEGRADATION OF NOXIOUS DYE MOLECULES BY THE MULTIFUNCTIONAL TiO₂@Fe_xO_y CORE-SHELL NANOHETEROSTRUCTURE

Daniel Gherca, Adrian Iulian Borhan, Daniel Dumitru Herea, Marian Grigoras, George Stoian, Gabriel Ababei, Horia Chiriac, Nicoleta Lupu.

National Institute of Research and Development for Technical Physics, Iasi, Romania.

S07-THU-12

SYNTHESIS OF FeO@Fe₃O₄@MGO@Fe₃O₄ ONION-LIKE MAGNETIC NANOPARTICLES

Jorge Martín Nuñez¹, Víctor Leborán², Francisco Rivadulla², Gerardo F Goya¹, Roberto D. Zysler³, Elin L. Winkler³, Myriam H. Aguirre¹.

¹Instituto de Nanociencias y Materiales de Aragón-CSIC-Universidad de Zaragoza, Zaragoza, Spain; ²Centro de Investigación en Química Biológica e Materiais Moleculares (CIQUS), Dpto. de Química Física, Universidad de Santiago de Compostela, Santiago de Compostela, Spain; ³Resonancias Magnéticas, Centro Atómico Bariloche e Instituto de Nanociencia y Nanotecnología, Bariloche, Argentina.

S07-THU-13

CRYSTAL/MAGNETIC STRUCTURE, NUCLEATION MECHANISM AND CRYSTALLIZATION DYNAMICS OF SPINEL FERRITE NANOPARTICLES

Henrik L. Andersen¹, Cecilia Granados-Miralles², Kirsten M. Ø. Jensen³, Matilde Saura-Muzquiz¹, Mogens Christensen⁴.

¹Universidad Complutense de Madrid, Madrid, Spain; ²Instituto de Cerámica y Vidrio, CSIC, Madrid, Spain; ³University of Copenhagen, Copenhagen, Denmark; ⁴Aarhus University, Aarhus, Denmark.

S07-THU-14

SYNTHESIS AND CHARACTERIZATION OF Au-Fe₃O₄ NANOHYBRIDS

Tatiana Smoliarova, Marina Spasova, Michael Farle, Ulf Wiedwald.

Faculty of Physics, University of Duisburg-Essen, Duisburg, Germany.

S07-THU-15

PARTICLE SIZE-DEPENDENT MAGNETIC BEHAVIOR OF LaFeO₃: SPIN CANTING AND SPIN GLASS EXCHANGE

Dhoha Alshalawi¹, José M. Alonso², Angel R. Landa-Cánovas³, Patricia De La Presa².

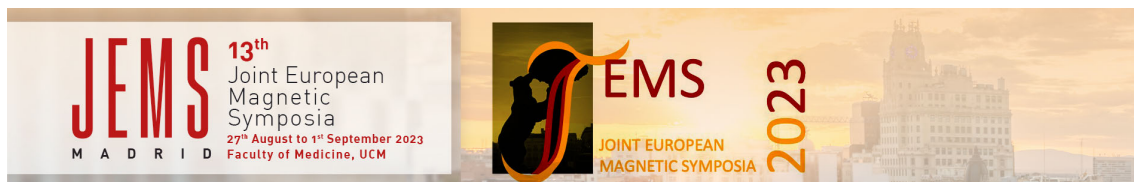
¹Institute of Applied Magnetism, UCM-ADFI-CSIC, Las Rozas, Spain, Spain; ²Institute of Applied Magnetism, UCM-ADFI-CSIC, Madrid, Spain; ³Institute of Material Science of Madrid, CSIC, Madrid, Spain.

S07-THU-16

SEED MEDIATED POLYOL SYNTHESIS OF COFe₂O₄/Ni_xCO_{1-x}O EXCHANGE BIASED MAGNETIC NANOSTRUCTURES

Miran Baricic¹, Faris Flaifil¹, David Hrabovsky², Souad Ammar¹, Davide Peddis³.

¹Université Paris Cité, Paris, France; ²Université Sorbonne, Paris, France; ³Università di Genova, Genova, Italy.



S07-THU-17

MAGNETIC RELAXATION AND MR MEASUREMENTS OF ZN-DOPED MGFE₂O₄ NANOPARTICLES

Noboru Kataoka¹, Sota Hamada¹, Akihito Usui², Yuko Ichiyanagi¹.

¹Yokohama National University, Yokohama, Japan; ²Tohoku University, Sendai, Japan.

S07-THU-19

PHOTOTHERMAL EFFECTS IN MFE₂O₄ (M= FE, CO, NI, CU, ZN) NANOPARTICLES

Luis Garcia Garcia-Arisco, Daniel Arranz, Manuel Horcajo Fernández, Patricia De La Presa.

Instituto de Magnetismo Aplicado Salvador Velayos (UCM-ADIF-CSIC), Las Rozas (Madrid), Spain.

S08-THU-01

MAGNETO-ELASTIC INTERACTION IN κ -[(BEDT-TTF)_{1-x}(BEDT-STF)_x]₂CU₂(CN)₃ QUANTUM SPIN LIQUID CANDIDATE

Petr Doležal¹, Rikumar Saito², Atsushi Kawamoto², Andrej Pustogow¹.

¹Institute of Solid State Physics, TU Wien, Vienna, Austria; ²Department of Physics, Graduate School of Science, Hokkaido University, Sapporo, Japan.

S08-THU-02

CHARGE TRANSFER-INDUCED SPIN TRANSITION IN FE/CO PRUSSIAN BLUE ANALOGUES IN ULTRAFAST REGIME

Serhiy Demeshko¹, Jennifer Zimara², Hendrik Stevens¹, Reiner Oswald³, Sebastian Dechert¹, Ricardo A. Mata³, Franc Meyer¹, Dirk Schwarzer³.

¹Institute for Inorganic Chemistry, Göttingen, Germany; ²Max-Planck-Institute for Biophysical Chemistry, Göttingen, Germany; ³Institute for Physical Chemistry, Göttingen, Germany.

S08-THU-03

MECHANOELASTIC SIMULATIONS OF MONOLAYER LATTICES OF SPIN CROSSOVER MOLECULES ON A SUBSTRATE

Anastasia Railean¹, Cristian Enachescu¹, Laurentiu Stoleriu¹, Amadine Bellec², Vincent Repain², Marie-Laure Boillot³.

¹Faculty of Physics, Alexandru Ioan Cuza University, Iasi, Romania; ²Université Paris Cité, CNRS, Laboratoire Matériaux et Phénomènes Quantiques, Paris, France; ³Institut de Chimie Moléculaire et des Matériaux d'Orsay, Université Paris-Saclay, CNRS, Orsay, France.

S08-THU-05

REVERSIBLE MAGNETO-IONIC EFFECT IN CRYSTALLIZED W-COFEB-MGO-HFO₂ ULTRA-THIN FILMS WITH PERPENDICULAR ANISOTROPY

Song Chen¹, Elmer Monteblanco¹, Rohit Pachat², Liza Herrera Diez², Dafiné Ravelosona³.

¹Spin-Ion Technologies, Palaiseau, France; ²Centre de Nanosciences et de Nanotechnologies, Palaiseau, France; ³Spin-Ion Technologies/Centre de Nanosciences et de Nanotechnologies, Palaiseau, France.

S08-THU-07

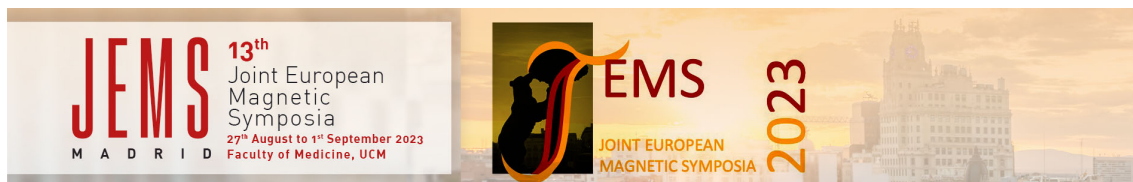
SIMPLIFYING THE FIRST ORDER REVERSAL CURVES METHOD FOR MOLECULAR MAGNETS BY USING A CALORIMETRIC APPROACH

Diana Plesca¹, Cristian Enachescu¹, Radu Tanasa¹, Alexandru Stancu¹, Denis Morineau², Marie-Laure Boillot³.

¹Alexandru Ioan Cuza University, Iasi, Romania; ²Université de Rennes, Rennes, France; ³Université Paris-Saclay, Orsay, France.

S08-THU-08

PLASMA TREATMENT - THE UNCONVENTIONAL METHOD OF TAILORING MAGNETIC PROPERTIES IN MOLECULAR MAGNETS



Dominik Czernia¹, Piotr Konieczny¹, Dawid Pinkowicz².

¹Institute of Nuclear Physics PAN, Kraków, Poland; ²Jagiellonian University, Faculty of Chemistry, Cracow, Poland.

S08-THU-10

MAGNETIC AND ELECTRONIC PROPERTIES OF HYBRID METAL-ORGANIC INTERFACES ON RARE EARTH-GOLD SURFACE COMPOUNDS

Laura Fernández¹, Rodrigo Castrillo-Bodero¹, María Blanco-Rey², Khadiza Ali³, J. Enrique Ortega Conejero², Frederik Schiller¹.

¹CSIC-CFM, San Sebastian, Spain; ²UPV/EHU, San Sebastian, Spain; ³Chalmers University of Technology, Göteborg, Sweden.

S08-THU-12

IONIC LIQUID GATING OF MAGNETIC MULTILAYERS WITH STRUCTURE INVERSION ASYMMETRY

Md Golam Hafiz¹, Philippa Mary Shepley¹, Craig Knox², Matthew Rogers¹, Mannan Ali¹, Rohit Pachat³, Liza Herrera-Diez³, Gavin Burnell¹.

¹School of Physics and Astronomy, University of Leeds, Leeds LS2 9JT, United Kingdom; ²School of Electronic and Electrical Engineering, University of Leeds, Leeds LS2 9JT, United Kingdom; ³C2N, Université Paris-Saclay, 91120 Palaiseau, France.

S08-THU-13

THE CORRELATED RANDOM ANISOTROPY MODEL OF THE CO-ORGANIC COMPOSITE FILMS.

Viktor Kabanov¹, Andrei Shumilin¹, Mattia Benini², Tomaz Mertelj¹, Valentin Alek Dediu².

¹Jozef Stefan Institute, Ljubljana, Slovenia; ²ISMN-CNR, Bologna, Italy.

S08-THU-15

STRONG MODIFICATIONS OF MAGNETIC PROPERTIES IN THIN CO FILMS BY MOLECULAR CHEMISORPTION

Mattia Benini¹, Giuseppe Allodi², Andrei Shumilin³, Rajib Kumar Rakshit¹, Manju Singh¹, Alberto Riminucci¹, Patrizio Graziosi¹, Viktor Kabanov³, Tomaz Mertelj³, Ilaria Bergenti¹, Valentin Alek Dediu¹.

¹ISMN-CNR, Bologna, Italy; ²Department of Mathematical, Physical and Informatics sciences, University of Parma, Parma, Italy; ³Jožef Stefan Institute, Ljubljana, Slovenia.

S08-THU-16

ELECTRICALLY DRIVEN SINGLET-TRIPLET TRANSITION IN TRIANGULENE SPIN-1 CHAINS

Gabriel Martínez-Carracedo¹, László Oroszlány², Amador García-Fuente¹, László Szunyogh³, Jaime Ferrer¹.

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S08-THU-17

MAGNETIC BEHAVIOUR OF LAYERED 2-HALOETHYLAMMONIUM TETRAHALOCUPRATES(II)

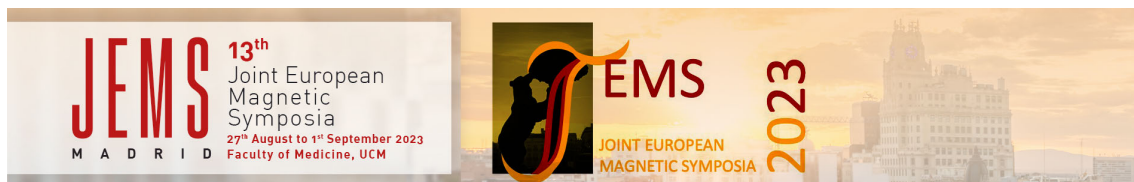
Pavla Šenjug¹, Dario Barišić¹, Edi Topić², Mirta Rubčić², Damir Pajić¹.

¹Department of Physics, Faculty of Science, University of Zagreb, Zagreb, Croatia; ²Department of Chemistry, Faculty of Science, University of Zagreb, Zagreb, Croatia.

S08-THU-19

HYBRID ORGANIC-INORGANIC LAYERED HALOCUPRATES AS QUASI-TWO-DIMENSIONAL LONG-RANGE ORDERED FERRO- AND ANTIFERROMAGNETS

Damir Pajić¹, Pavla Šenjug¹, Dario Barišić¹, Edi Topić², Mirta Rubčić².



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S10-THU-01

SPIN RECTIFICATION BY PLANAR HALL EFFECT IN SYNTHETIC ANTIFERROMAGNETS

Diego Gonzalez Chavez¹, Muhammad Pervez¹, Javier Gomez², Alejandro Butera², Luis Aviles Felix², Rubem Sommer¹.

¹Centro Brasileiro de Pesquisas Físicas, Rio De Janeiro, Brazil; ²Instituto de Nanociencia y Nanotecnología (CNEA-CONICET), Bariloche, Argentina.

S10-THU-02

COHERENT MAGNETIZATION REVERSAL PROMOTED BY MAGNETOELASTIC COUPLING

Noelia Coton¹, Juan Pedro Andres², Alejandro Cabrera¹, Marco Maicas³, Rocio Ranchal¹.

¹Universidad Complutense de Madrid, Madrid, Spain; ²Universidad Castilla-La Mancha, Ciudad Real, Spain; ³Universidad Politécnica de Madrid, Madrid, Spain.

S10-THU-04

INFLUENCE OF ELECTRIC FIELD ON THE SPIN WAVE STIFFNESS AND GILBERT DAMPING IN METALLIC LAYERS

Ondrej Sitr¹, Aki Pulkkinen², Jan Minar², Sergey Mankovsky³, Hubert Ebert³, Alberto Marmodoro¹.

¹FZU-Institute of Physic, Prague, Czech Republic; ²University of West Bohemia, Pilsen, Czech Republic; ³Ludwig-Maximilians-Universität, München, Germany.

S10-THU-05

INFLUENCE OF MAGNETIC RELAXATION ON THE PERFORMANCE OF MAGNETOELASTIC RESONANCE-BASED DETECTION

Beatriz Sisniega, Jon Gutiérrez, José Manuel Barandiaran, Alfredo García-Arribas.

Universidad del País Vasco UPV/EHU, Fac Ciencia y Tecnología, Depto Elec y Electrónica, Spain.

S10-THU-07

DISENTANGLING THE MAGNETORESISTANCE CONTRIBUTIONS OF PEROVSKITES THIN FILMS

Inés García Manuz¹, Jose Manuel Díez¹, Raúl Solís², Guillermo De Arana³, Jose Luis Fernández Cuñado³, Adrián Gudín³, Luiz Enger⁴, Bruno Guillet⁴, Laurence Méchin⁴, Stéphane Flament⁴, Paolo Perna³, Julio Camarero De Diego¹.

¹Universidad Autónoma de Madrid // IMDEA-nanoscience, Madrid, Spain; ²IMDEA-Nanoscience // CNRS GREYC ENSICAEN UNICAEN, Madrid, Spain; ³IMDEA-nanoscience, Madrid, Spain; ⁴CNRS GREYC ENSICAEN UNICAEN, Caen, France.

S10-THU-08

FERRO TO ANTIFERROMAGNETIC TRANSITION IN EPITAXIAL THIN FILMS OF $MN_5(Si_xGe_{1-x})_3$ GROWN ON $Ge(111)$ SUBSTRATE

Sueyeong Kang¹, Roger Kalvig², Thomas Baujard³, Ganaël Bon³, Vasile Heresanu¹, Oscar Cespedes⁴, Bryan Hickey⁴, Ewa Jedryka², Marek Wojcik², Lisa Michez¹, Matthieu Petit¹.

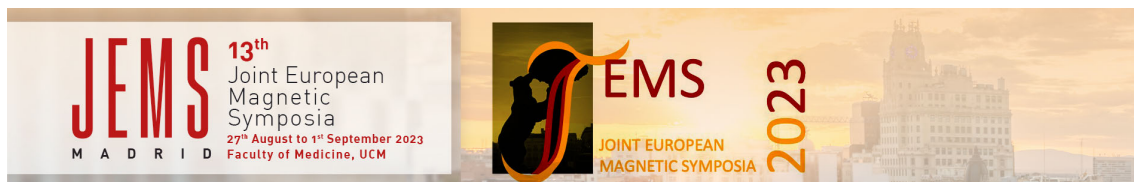
¹Aix Marseille Univ, CNRS, CINaM, Marseille, France; ²Institute of Physics, Polish Academy of Sciences, Warsaw, Poland; ³Aix Marseille Univ, Polytech, Materials Department, Marseille, France; ⁴Condensed Matter group, University of Leeds, Leeds, United Kingdom.

S10-THU-10

MAGNETOELASTIC STRESSES IN EPITAXIAL FE₂GA THIN FILMS

Miguel Ciria¹, Adrián Begué², Maria Grazia Proietti³, José Ignacio Arnaudas³.

¹INMA-CSIC, Zaragoza, Spain; ²Universidad Complutense, Madrid, Spain; ³Universidad de Zaragoza, Zaragoza, Spain.



S10-THU-11

ANOMALOUS NERNST EFFECT ON MAGNETIC MULTILAYERS WITH FLEXIBLE SUBSTRATE

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¹Instituto de Ciencia de Materiales de Madrid, ICMM-CSIC, Madrid, Spain; ²Universidad Autónoma de Madrid - UAM, Madrid, Spain.

S10-THU-13

TEMPERATURE-DEPENDENCE OF FERROMAGNETIC RESONANCE IN YIG GARNETS THIN FILMS

Lara Melisa Solis¹, Santiago Carreira², Javier Briático², Abdelmadjid Anane², Myriam Aguirre³, Laura Steren¹.

¹Instituto de Nanociencia y Nanotecnología CNEA-CONICET, Buenos Aires, Argentina; ²Unité Mixte de Physique, CNRS, Thales, Palaiseau, France; ³Instituto de Nanociencia y Materiales de Aragón, UNIZAR-CSIC, Zaragoza, Spain.

S10-THU-14

MODIFICATION OF THE MAGNETOCRYSTALLINE ANISOTROPY AT MOLECULE-COBALT INTERFACES

Anita Halder, Sumanta Bhandary, David O'regan, Stefano Sanvito, Andrea Droghetti.

Trinity College Dublin, Dublin, Republic of Ireland.

S10-THU-15

SOFT MAGNETISM IN SINGLE PHASE FE₃SI THIN FILMS DEPOSITED ON SRTIO₃(001) BY PULSED LASER DEPOSITION

Iciar Aray¹, Aída Serrano², Verónica Braza³, Rosalía Cid⁴, Ana M. Sánchez⁵, Jesús López-Sánchez⁶, Germán R. Castro⁶, Juan Rubio-Zuazo⁶.

¹IMDEA Nanociencia, Madrid, Spain; ²Instituto de Cerámica y Vidrio, Madrid, Spain; ³Universidad de Cádiz, Cádiz, Spain; ⁴CIC EnergyGUNE, Vitoria, Spain; ⁵University of Warwick, Warwick, United Kingdom; ⁶Instituto de Ciencia de Materiales de Madrid, Madrid, Spain.

S10-THU-16

ORIGIN OF LOCAL MAGNETIC MOMENTS IN CR-V ALLOYS

Adilson J A De Oliveira¹, Letícia Maria De Oliveira², Paulo Eduardo Narcizo De Souza³, Fabiano Yokaichiya⁴, Paulo César De Camargo¹.

¹Universidade Federal de São Carlos, São Carlos - SP, Brazil; ²Universidade do Vale do São Francisco, Senhor do Bonfim - BA, Brazil; ³Universidade de Brasília, Brasília - DF, Brazil; ⁴Universidade Federal do Paraná, Curitiba - PR, Brazil.

S10-THU-17

MICROFABRICATION OF COMPLEX SOFT MAGNETIC FECO(V) COMPONENTS BY COMBINING LITHOGRAPHY AND ELECTRODEPOSITION

Ester M. Palmero, Manuel R. Osorio, Andrés Valera, María Acebrón, Alberto Bollero, Daniel Granados.

IMDEA Nanoscience, Madrid, Spain.

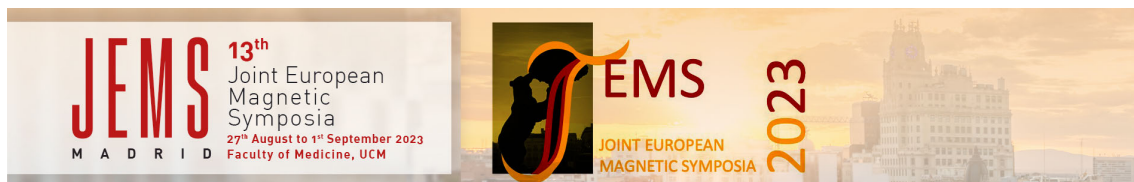
S10-THU-18

LEFT-HANDED PROPERTIES OF THE NANOCRYSTALLINE FERROMAGNETIC MICROWIRES FOR GHZ SHIELDING

Gabriel Ababei, Iulian Murgulescu, Sorin Corodeanu, Viorel Dobrea, Gabriel Filipciuc, Nicoleta Lupu.

National Institute of Research and Development for Technical Physics (NIRDTP), Iasi, Romania.

S10-THU-19



LASER-INDUCED MANIPULATION OF MAGNETIZATION IN NANOPATTERNED GD₂Fe₁₇ THIN FILMS

Victor Deinhart¹, Lisa-Marie Kern², Christopher Klose², Felix Steinbach², Clemens Con Korff Schmising², Dieter Engel², Katja Höflich³, Stefan Eisebitt², Bastian Pfau².

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S10-THU-20

MULTIPOLE MAGNETIC EXPANSION IN CONICAL-HELICAL MAGNETIC TEXTURES STABILIZED BY DZIALOSHINSKII-MORIYA INTERACTION

Felipe Brevis¹, Rodolfo Gallardo¹, Paula Mellado², Pedro Landeros¹.

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²Facultad de Ingeniería y Ciencias, Universidad Adolfo Ibáñez, Santiago, Chile.

S10-THU-21

INTERFACIAL EXCHANGE COUPLING IN TBFE/[CO/PD]_N FILMS

Ashley Joel Dalmeida, Ulrich Herr.

Institute for Functional Nanosystems, Ulm University, Ulm, Germany.

S10-THU-22

RELAXATION OF STRAIN IN TERBIUM IRON GARNET LAYERS DETECTED BY MAGNETO-OPTICAL KERR EFFECT SPECTROSCOPY

Michal Vančík¹, Takian Fakhru², Allison Kaczmarek², Kensuke Hayashi², Jakub Zázvorka¹, Caroline Ross², Martin Veis¹.

¹Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic; ²Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States.

S10-THU-23

MAGNETIC AND DIELECTRIC PROPERTIES OF COFe₂O₄/BaTiO₃ BILAYERS

João Oliveira¹, Bruna Silva¹, Tiago Rebelo¹, Neenu Lekshmi Prasannan², Leonard Francis³, J. A. Mendes¹, Bernardo Gonçalves Almeida¹.

¹Universidade do Minho, Braga, Portugal; ²Universidade do Porto, Porto, Portugal;

³International Iberian Nanotechnology Laboratory, Braga, Portugal.

S10-THU-24

CONTROLLING DMI IN MAGNETIC HETEROSTRUCTURES BY ELECTRIC FIELDS

Donya Mazhjo, Gustav Bihlmayer, Stefan Blügel.

Peter Grünberg Institut and Institute for Advanced Simulation, Forschungszentrum Jülich, Jülich, Germany.

S14-THU-01

IN-SITU MODIFICATION OF THE MAGNETOCRYSTALLINE ANISOTROPY OF IRON-RICH COBALT FERRITE BY IRON ADDITION

Juan De La Figuera¹, Anna Mandziak², Sandra Ruiz-Gomez³, Pilar Prieto⁴, Jose Emilio Prieto¹, Michael Foerster⁵, Lucía Aballe⁵.

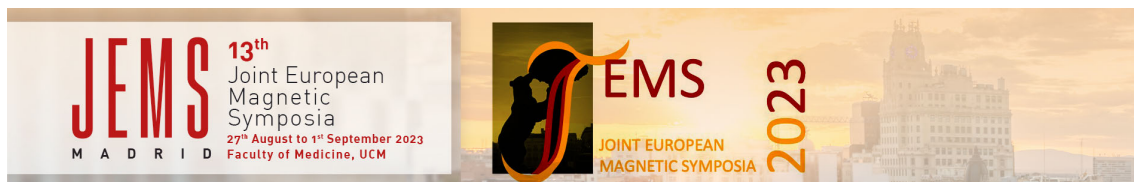
¹Instituto de Química Física "Rocasolano", Madrid, Spain; ²Solaris Synchrotron, Krakow, Poland; ³Max-Planck-Institut für Chemische Physik fester Stoffe, Dresden, Germany;

⁴Universidad Autónoma de Madrid, Madrid, Spain; ⁵Alba Synchrotron Light Facility, Cerdanyola, Spain.

S14-THU-03

TOPOLOGICAL SPIN TEXTURES IN MAGNETIC MULTILAYER SYSTEMS

Elizabeth Martín Jefremovas¹, Fabian Kammerbauer¹, Mona Bhukta¹, Maria Andromachi Syskaki¹, Takaaki Dohi², Robert Frömter¹, Jairo Sinova¹, Mathias Kläui¹.



¹Johannes Gutenberg Mainz University, Mainz, Germany; ²Tohoku University Research Institute of Electrical Communication Katahira, Sendai, Japan.

S14-THU-04

VOLTAGE-CONTROLLED MAGNETORESISTANCE IN FEO_x-FE COATED AU AEROGELS

Martin Nichterwitz¹, Daniel Wolf², Karin Leistner¹.

¹TU Chemnitz, Chemnitz, Germany; ²Leibniz IFW Dresden, Dresden, Germany.

S14-THU-05

INVESTIGATION OF MAGNETIZATION SWITCHING IN IRON OXIDE THIN FILM/ SILICA NANOPARTICLES HETEROSTRUCTURES

Mai Hussein Hamed, Asmaa Qdemat, Yifan Xu, Connie Bednarski-Meinke, Steffen Tober, Emmanuel Kentzinger, Oleg Petravic, Thomas Brückel.

Forschungszentrum Jülich, Jülich, Germany.

S14-THU-06

INFLUENCE OF I-DMI ON THE SPIN-WAVE NONRECIPROcity OF PERMALLOY NANOTUBES

Victor M. García-Suárez, Luis Manuel Álvarez-Prado.

Universidad de Oviedo, Oviedo (Facultad de Ciencias), Spain.

S14-THU-07

GEOMETRICAL CONTROL OF TOPOLOGICAL SPIN STATES IN DOUBLE-HELIX NANOSTRUCTURES

Naëmi Leo¹, John Fullerton², Jakub Jurczyk³, Claire Donnelly⁴, Claas Abert⁵, David Raffrey⁶, Nicholas Mille⁷, Rachid Belkhou⁷, Andrea Sorrentino⁸, Lucia Aballe⁸, Dédalo Sanz-Hernández⁹, Dieter Suess⁵, Peter Fischer⁶, Aurelio Hierro-Rodríguez¹⁰, Amalio Fernandez-Pacheco³.

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S14-THU-08

CHARACTERISATION OF 3D MAGNETIC NANOSTRUCTURES USING THE DARK-FIELD MAGNETO-OPTICAL KERR EFFECT

Jakub Jurczyk¹, Naëmi Leo¹, Angelo Mottotese¹, Miguel Ángel Cascales-Sandoval², Luka Skoric³, Dédalo Sanz-Hernández⁴, Amalio Fernández-Pacheco¹.

¹Instituto de Nanociencia y Materiales de Aragón, CSIC-University of Zaragoza, Zaragoza, Spain; ²SUPA, School of Physics and Astronomy, University of Glasgow, Glasgow, United Kingdom; ³Cavendish Laboratory, University of Cambridge, Cambridge, United Kingdom; ⁴Unité Mixte de Physique, CNRS, Thales, Université Paris-Saclay, Palaiseau, France.

S14-THU-09

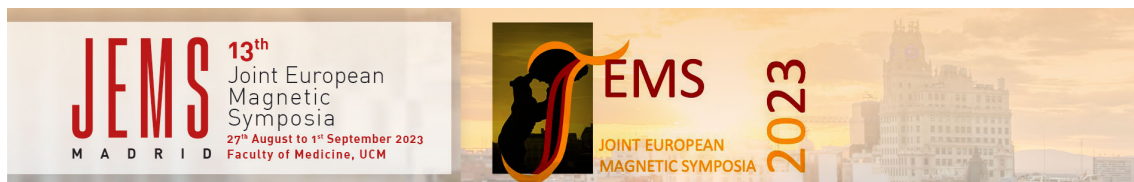
SKYRMIONS CONFINED IN PLATES AS BUILDING BLOCKS FOR MAGNETIC METAMATERIALS

Carles Navau, Leonardo González-Gómez, Nuria Del-Valle.

Universitat Autònoma de Barcelona, Bellaterra, Barcelona, Spain.

S14-THU-10

MAGNETIZATION REVERSAL PROCESSES OF FERROMAGNETIC NANOWIRES MODULATED IN GEOMETRY AND COMPOSITION



Javier Garcia Fernandez¹, Víctor Vega Martínez¹, José Ángel Fernández Roldán¹, Silvia González¹, Yolanda Álvarez¹, Ana Isabel Jiménez¹, Víctor Manuel De La Prida Pidal¹, M. Mendez².

¹University of Oviedo, Oviedo, Spain; ²Depto. Física, Universidad de Oviedo, C/Federico García Lorca nº 18, 33007-Oviedo, Spain, Oviedo, Spain.

S14-THU-11

SURFACE CONFINEMENT OF BULK STATES ON O/FE

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¹CNR-IOM, Trieste, Italy; ²Dipartimento di Fisica, Università degli Studi di Milano, Milano, Italy;

³New Technologies-Research Centre, University of West Bohemia, Pilsen, Czech Republic.

S14-THU-12

COMPLEX FREE-SPACE MAGNETIC FIELD TEXTURES INDUCED BY THREE-DIMENSIONAL MAGNETIC NANOSTRUCTURES

Claire Donnelly¹, Aurelio Hierro-Rodriguez², Claas Abert³, Katharina Witte⁴, Luka Skoric⁵, Dedalo Sanz Hernandez⁶, Simone Finizio⁷, Fanfan Meng⁵, Stephen Mcvitie⁸, Joerg Raabe⁷, Dieter Suess³, Russell Cowburn⁵, Amalio Fernandez Pacheco⁹.

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S14-THU-13

MAGNETIC COUPLING IN ELECTRODEPOSITED NANOWIRES WITH RADIAL MODULATION OF COMPOSITION

Lucía Gómez-Cruz¹, Claudia Fernández-González², Alba Guio³, Alejandra Guedeja-Marrón³, María Varela³, Lucas Pérez¹, Sandra Ruiz-Gómez².

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S14-THU-14

TUNABLE MAGNETIC EQUILIBRIUM CONFIGURATIONS IN DIPOLAR HELICES

Ot Garcés, Òscar Iglesias.

Universitat de Barcelona, Barcelona, Spain.

S14-THU-15

TRANSITION BETWEEN MAGNETIC VORTEX AND DOUBLE POLE STATES IN PY/RU/PY DIAMOND-SHAPED TRILAYERS

Ana Parente¹, Henry Navarro², N. M Vargas², P. Lapa², Ali C. Basaran², Elvira M. González³, Cristina Redondo⁴, Rafael Morales⁵, Álvaro Muñoz-Noval³, Ivan K. Schuller², José Luis Vicent¹.

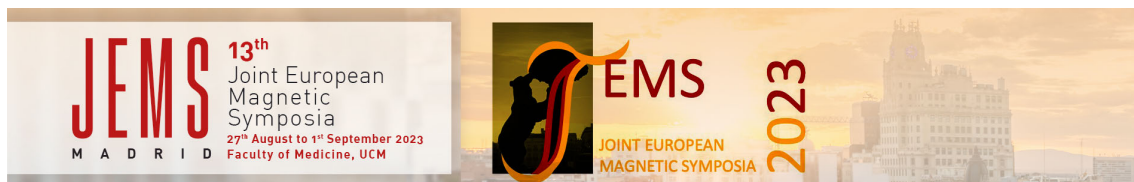
¹Universidad Complutense de Madrid, Madrid, Spain; ²University of California San Diego, California, United States; ³Universidad Complutense de Madrid and IMDEA Nanociencia, Madrid, Spain; ⁴Universidad del País Vasco, País Vasco, Spain; ⁵Universidad del País Vasco and IKERBASQUE, País Vasco, Spain.

S14-THU-17

CURVATURE-INDUCED TILT AND PINNING IN CROX/CO/PT CORRUGATED STRIPS

Jose A. Fernandez-Roldan¹, S. Shakeel², M. Quintana³, O. Volkov², A. Polypovskiy², E. S. Oliveros-Mata², F. Kronast⁴, M.-A. Mawass⁴, C. Abert⁵, D. Suess⁵, D. Erb², D. Makarov².

¹HZDR, Dresden, Germany; ²Helmholtz-Zentrum Dresden-Rossendorf e. V., 01328 Dresden, Germany, Dresden, Germany; ³Helmholtz-Zentrum Dresden-Rossendorf e. V., 01328 Dresden, Germany. CIC nanoGUNE BRTA, E-20018 Donostia—San Sebastián, Spain, San Sebastián, Spain; ⁴Helmholtz-Zentrum Berlin für Materialien und Energie, 12489 Berlin, Germany, Berlin,



Germany; ⁵Faculty of Physics, University of Vienna, Boltzmanngasse 5, 1090 Vienna, Austria. Research Platform MMM Mathematics-Magnetism-Materials, University of Vienna, Oskar-Morgenstern-Platz 1, 1090 Vienna, Austria, Vienna, Austria.

S16-THU-01

THEORY OF THREE-WAVE SCATTERING OF BULK AND EDGE SPIN WAVES

Julia Kharlan¹, Pawel Gruszecki², Roman Verba³, Krzysztof Sobucki², Maciej Krawczyk¹.

¹Faculty of Physics, ISQI, Adam Mickiewicz University, Poznan, Uniwersytetu Poznańskiego 2, Poznań, Poland; ²Faculty of Physics, ISQI, Adam Mickiewicz University, Poznan, Uniwersytetu Poznańskiego 2., Poznań, Poland; ³Institute of Magnetism of NAS of Ukraine and MES of Ukraine, 36-b Acad. Vernadskogo Ave., Kyiv, Ukraine.

S16-THU-03

MICROMAGNETIC SIMULATIONS OF DOMAIN WALLS IN COUPLED SYNTHETIC ANTIFERROMAGNETIC NANOWIRES WITH IN-PLANE MAGNETIZATION

Jhon Jairo Chilibingua, Maria Jose Benitez.

Escuela Politécnica Nacional, Quito, Ecuador.

S16-THU-04

DYNAMIC HYSTERESIS AND SPECIFIC LOSS POWER OF MAGNETITE NANOPARTICLES: VISCOSITY, TEMPERATURE AND ORIENTATION EFFECTS

Johans Restrepo¹, J. C. Zapata², N. Roa-Motta².

¹Universidad de Antioquia, Medellín, Colombia; ²Universidad de Antioquia, Medellín, Colombia.

S16-THU-05

INHOMOGENEOUS MAGNETIZATION IN PACKED BEDS

Nikka Mosleh, Christian R. H. Bahl, Rasmus Bjørk.

Department of Energy Conversion and Storage, Technical University of Denmark, Kgs. Lyngby, Denmark.

S16-THU-08

FIRST-PRINCIPLES STUDY OF PERPENDICULAR MAGNETIC ANISOTROPY IN COFEB/MGO/COFEB MAGNETIC TUNNEL JUNCTIONS

Justyn Snarski-Adamski¹, Ján Ruzs², Mirosław Werwiński¹.

¹Institute of Molecular Physics Polish Academy of Sciences, Poznań, Poland; ²Department of Physics and Astronomy, Uppsala University, Uppsala, Sweden.

S16-THU-10

SPIN WAVES IN FERRIMAGNETS AT AND AROUND THE ANGULAR MAGNETIZATION COMPENSATION TEMPERATURE: A MICROMAGNETIC STUDY

Luis Sánchez-Tejerina¹, David Osuna Ruiz², Eduardo Martínez Vecino³, Luis López-Díaz³, Óscar Alejos¹.

¹Universidad de Valladolid, Valladolid, Spain; ²Universidad Pública de Navarra, Pamplona, Spain; ³Universidad de Salamanca, Salamanca, Spain.

S16-THU-11

SPIN AND ORBITAL EDELSTEIN EFFECT IN A BI- AND TRILAYER SYSTEM WITH RASHBA INTERACTION

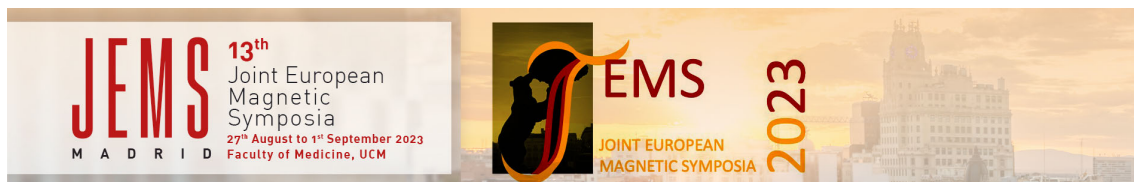
Sergio Leiva Montecinos¹, Jürgen Henk¹, Ingrid Mertig¹, Annika Johansson².

¹Martin-Luther Universität, Halle (Saale), Germany; ²Max Planck Institute of Microstructure Physics, Halle (Saale), Germany.

S16-THU-12

CMTJ: SIMULATION PACKAGE FOR MULTILAYER SPINTRONIC DEVICES

Jakub Mojsiejuk¹, Sławomir Ziętek², Maciej Czapkiewicz², Krzysztof Grochoń², Witold Skowroński².



¹AGH University of Science and Technology, Krakow, Poland; ²AGH University of Science and Technology, Kraków, Poland.

S16-THU-15

QUANTIFICATION OF COERCIVITIES AND INTERACTIONS IN FERROMAGNETIC SYSTEMS FROM FORC MEASUREMENTS

José Carlos Martínez-García, Montserrat Rivas.
Departamento de Física - Universidad de Oviedo, Gijón, Spain.

S16-THU-16

MULTI-SCALE SPIN DYNAMICS IN MTJS BASED ON FERRIMAGNETIC MN₃GA

Umit Dogan Daglum¹, Carenza Cronshaw², Richard Evans², Maria Stamenova¹.
¹Trinity College Dublin, Dublin, Republic of Ireland; ²University of York, York, United Kingdom.

S16-THU-17

MODELLING OF ROTATIONAL LOSSES FOR MAGNETIC STEEL SHEETS THROUGH MICROMAGNETISM

Amil Ducevic¹, Klaus Roppert², Manfred Kaltenbacher², Dieter Suess¹.
¹University of Vienna, Vienna, Austria; ²Technische Universität Graz, Graz, Austria.

S17-THU-01

ESTIMATION OF TBCO COMPOSITION FROM A LOCAL-MINIMUM-STATE IMAGE TAKEN BY MOKE MICROSCOPE USING MACHINE LEARNING

Kenji Tanabe, Shiori Kuno, Hiroyuki Awano.
Toyota Technological Institute, Nagoya, Japan.

S17-THU-02

SPECTRAL DEPENDENCE OF QMOKE ANISOTROPY IN FERH

Zeynab Sadeghi, Vladislav Wohlrath, Petr Němec, Eva Schmoranzarová, Jozef Kimák, Peter Kubaščík, Tomas Ostatnický.
Charles university in Prague, Prague, Czech Republic.

S17-THU-03

MATERIALS INFORMATICS FOR MAGNETIC MATERIAL DISCOVERY

Nicola Morley, Richard Rowan-Robinson, Coyun Oh, Sophia Carpio, Zhaoyuan Leong.
University of Sheffield, Sheffield, United Kingdom.

S17-THU-04

MULTI-PARAMETER ANALYSER FOR SIMULTANEOUS CONVERSION X-RAY AND BACKSCATTER MÖSSBAUER SPECTROSCOPY

Jack O'Brien¹, Hasan Ahmadian Baghbaderani², Frederico Keller³, Nora Dempsey³, Laura H Lewis⁴, Plamen Stamenov¹.
¹Trinity College Dublin, Dublin, Republic of Ireland; ²Tyndall National Institute, University College Cork, Cork, Republic of Ireland; ³Institut Néel, CNRS Grenoble, Grenoble, France; ⁴Northeastern University, Boston, United States.

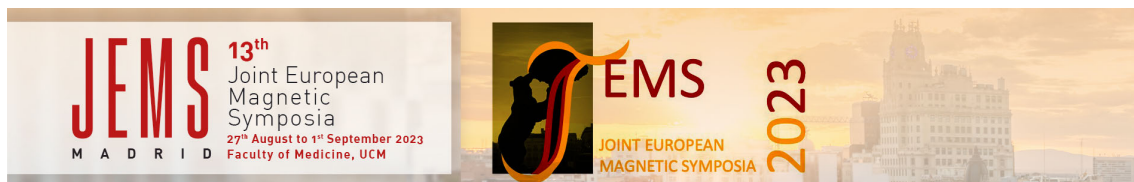
S17-THU-05

QUANTITATIVE HIGH SENSITIVITY MAGNETIC FORCE MICROSCOPY IN VACUUM

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S17-THU-06

NEW PERSPECTIVE ON PLANAR INDUCTIVE SENSORS: RADIO-FREQUENCY REFRACTOMETRY FOR HIGHLY SENSITIVE QUANTIFICATION OF MAGNETIC NANOPARTICLES



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S17-THU-07

ELECTROMAGNET END STATION FOR X-RAY MAGNETIC CIRCULAR DICHOISM

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S17-THU-08

MAPPING THE MAGNETIC RESPONSE OF MATERIALS ON A LOCAL SCALE USING MAGNETO-RESISTIVE SENSORS

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S17-THU-09

MULTI-PORT SAMPLE CARRIER SYSTEM FOR ALL-ELECTRICAL CHARACTERISATION OF THIN-FILM MAGNONIC DEVICES

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S17-THU-10

Ontologies for Materials Science: Beyond Databases and Electronic Laboratory Notebooks

Luana Caron, Tapas Samanta, Chris Taake, Moritz Blum, Basil Ell.

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S17-THU-11

WAVE VECTOR DEPENDENCE OF THE RELAXATION TIME OF EXCHANGE SPIN WAVES

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S17-THU-12

COMPLETE THERMODYNAMIC CHARACTERIZATION OF A MAGNETOCALORIC MATERIAL THROUGH MAGNETOMETRY

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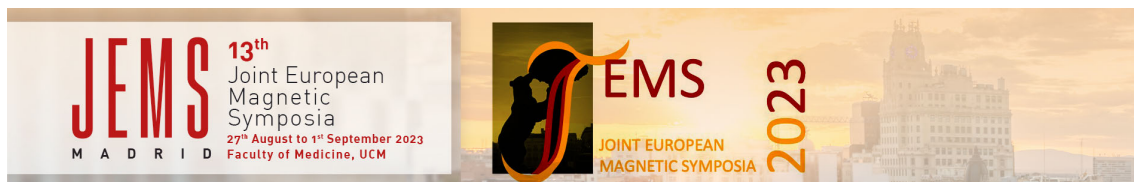
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S17-THU-13

THE BOREAS BEAMLINE AT ALBA – SCIENTIFIC OPPORTUNITIES AND RECENT TECHNICAL DEVELOPMENTS

Manuel Valvidares, Pierluigi Gargiani, Javier Herrero-Martín, Daniel Pérez-Salinas, Jordi Llobet, Antonio Carballedo, Alejandro Enrique, Xavier Fariña, Jairo Moldes, José Ramón Molinero, Xavier Serra, Nil Serra.

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S17-THU-16

BROADBAND FEMTOSECOND ELLIPSOMETRY FOR THE STUDY OF MAGNETIC MATERIALS

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S17-THU-18

MAGNETIZATION EXPERIMENT TO HELP THE UNDERSTANDING THE ORIGIN OF MARS MOONS

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S17-THU-19

MAGNETIC DOMAIN WALL FERROMAGNETIC RESONANCE CONFIRMED BY MAGNETOTRANSPORT MEASUREMENTS AND KERR MICROSCOPY

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S17-THU-20

THE MAGNEDYN BEAMLINE AT THE FERMI FREE ELECTRON LASER

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