



La Thuile  
4 – 7 February 2018

## Sunday February 4<sup>th</sup>, 2018

	Van Gogh room	<b>Session: Tutorials</b> Session chair: <i>Ermanno Cardelli</i>
17:15		<b>Vito Puliafito</b> Post-processing of magnetic signals by means of Fourier, Wavelet and Hilbert-Huang Transforms
17:45		<b>Marijan Beg</b> Computational micromagnetics with JOOMMF
18:15		<b>Jonathan Leliaert</b> Micromagnetic simulations with MuMax3
18:45		<b>Stefano Bonetti</b> Terahertz spin dynamics



## Monday February 5<sup>th</sup>, 2018

8:00		Registration		
8:15				
	Van Gogh	Session: <b>Plenary</b> Session chair: <i>Nora Dempsey</i>		
8:30		<b>Ivan Schuller</b> Hybrid magnetic heterostructures		
8:45				
9:00		Break		
	Chagall room	Session: <b>Materials for energy</b> Session chair: <i>Franca Albertini</i>		
9:15		<b>Nora Dempsey</b> High performance hard magnetic films		
9:27				
9:39		<b>Jordi Sort</b> Voltage-induced coercivity reduction in nanoporous alloy films and patterned structures: a boost towards energy-efficient magnetic actuation		
9:51				
10:03		<b>Anas Eldosouky</b> The use of SPS technique for the production of high coercivity recycled SmCo <sub>5</sub> magnet prepared by HD process		
10:15	<b>Elvina Dilmieva</b> Direct and indirect study of phase transitions in Heusler alloys in high magnetic field up to 14 T			
10:27				
		Van Gogh room	Session: <b>Spin orbit torque and skyrmions</b> Session chair: <i>Joo Von Kim</i>	
			<b>Andrei Slavin</b> Generation of THz-frequency oscillations in canted antiferromagnets	
			<b>Sergej Demokritov</b> Excitation and control of propagating spin waves by pure spin current	
			<b>Johan Åkerman</b> Long-range mutual synchronization of spin torque and spin Hall nano-oscillators	
10:27			<b>Marijan Beg</b> Stable magnetic singularity in helimagnetic nanostructures containing boundary between grains with different chirality	
10:45		Coffee break		
	Chagall room	Session: <b>Materials for energy</b> Session chair: <i>Victorino Franco</i>		Van Gogh room
11:00		<b>Jia Yan Law</b> A new quantitative criterion to determine the order of thermomagnetic phase transitions		
			<b>Mathias Kläui</b> Spin – Orbitronics: chiral spin structure dynamics due to spin-orbit effects	



11:12	Chagall room	<b>Francesca Casoli</b> Investigating the magnetization process of Ni-Mn-Ga films with different types of microstructure	Van Gogh room	
11:24		<b>Cinzia Beatrice</b> Magnetic loss decomposition in Co-doped Mn-Zn ferrites.		<b>Olivier Boule</b> Room temperature chiral magnetic skyrmions in ultrathin magnetic nanostructures
11:36		<b>Carlo Appino</b> Magnetic losses in non-oriented steel sheets under generic two-dimensional flux loci: prediction and measurements		
11:48		<b>Nora Leuning</b> Effect of grain size and magnetic texture on iron-loss components in NO electrical steel at different frequencies		<b>Joo-Von Kim</b> Skyrmion dynamics in ultrathin ferromagnetic films driven by spin-orbit torques
12:00		<b>Morgan Almanza</b> Comparison between thermomagnetic and thermoelectric generators		
12:12				
12:30	Lunch			
	Chagall room	<b>Session: Non destructive evaluation and tests, magnetic shielding and electromagnetic compatibility</b> Session chair: <i>Antonio Faba</i>	Van Gogh room	<b>Session: Micromagnetic modelling and spintronics</b> Session chair: <i>Mario Carpentieri</i>
14:00		<b>Antonio Laudani</b> On the effective permeability estimation of a composite materials for the shielding of low frequency magnetic field		<b>Massimiliano d'Aquino</b> Hysteretic synchronization in magnetic vortex spin-torque nano-oscillators
14:12				
14:24		<b>Marco Dionigi</b> Ferrite material in wireless power transfer systems: performances prediction and EMC assessment		<b>Vivek Kumar</b> Magnetic antiskyrmions above room temperature in tetragonal Heusler materials
14:36		<b>Hari Rimal</b> Performance study of ferrite core inductor to mitigate lightning indirect effects		<b>Israa Medlej</b> Skyrmion based random bit generator
14:48		<b>Simone Quondam Antonio</b> Non invasive testing for electrical steels with Goss orientation		<b>Marek Frankowski</b> Analysis of stability diagram of perpendicular magnetic tunnel junctions
15:00		<b>Chiaki Uyeda</b> Separation of diamagnetic & paramagnetic particles realized in $\mu$ g condition using a field distribution produced by a small niobium magnetic circuit		<b>Mykola Dvornik</b> Nucleation of dissipative solitons in constriction-based spin Hall nano-oscillators



15:12	Chagall room	<b>Alexandr Stupakov</b> Microscale magnetization dynamics in soft ferromagnetic materials	Van Gogh room	<b>Marco Asa</b> Accessing antiferromagnetism in metallic thin films through anomalous Hall effect
15:24		<b>Szymon Gontarz</b> Identification of magnetomechanical phenomena in a degradation process of dynamically loaded steel elements		<b>Alberto Brambilla</b> Magnetic properties of the $C_{60}/Fe(001)$ spinterface interfaced with two-dimensional oxides
15:36		<b>Evgenii Golygin</b> Thermal effect on the magnetoelastic properties of amorphous Fe-based metal ribbons treated by acid		<b>Christian Rinaldi</b> The impact of reversible spin texture in ferroelectric GeTe
15:48		<b>Mirosław Witos</b> Metal magnetic memory effect in non-destructive tests		
16:00		<b>Galina Kurlyandskaya</b> Magnetic and microwave properties of $Fe_{20}Ni_{80}$ magnetic nanoparticles with close to zero magnetostriction		
16:15	Coffee break			
	Chagall room	Session: <b>Magnetic levitation and bearings</b> Session chair: <i>Antonino Musolino</i>	Van Gogh room	Session: <b>Micromagnetic modelling and spintronics</b> Session chair: <i>Riccardo Bertacco</i>
16:45		<b>Bruno Dehez</b> Recent progress in electrodynamic magnetic bearing		<b>Vittorio Basso</b> Non equilibrium thermodynamics of the spin Seebeck and spin Peltier effects
16:57				
17:09		<b>Hyeong-Joon Ahn</b> Nonlinear control of One DOF magnetic levitation system using feedback linearization		<b>Farzad Nasirpour</b> Electrodeposited compositionally graded and diameter modulated magnetic nanowires for spintronic devices
17:21		<b>Joachim Van Verdeghe</b> Optimisation and comparison of axial flux and radial flux electrodynamic thrust bearings		<b>Lindor Diallo</b> Fe-implanted 6H-SiC study by Atom Probe Tomography (APT): Elaboration of diluted magnetic semiconductors at room temperature
17:33		<b>Xingnan Liu</b> Comparison of calculation and experiment of electromagnetic force for a large axial electromagnetic bearing		<b>Alessandra Manzin</b> Magnetic antidot arrays for frequency-based detection of magnetic beads
17:45		<b>Tianpeng Fan</b> Theory and experiments of unbalance response analysis of an active magnetic bearing controlled rotor		<b>Sergey Dickmann</b> Super-long-living spin excitations in a purely electronic two-dimensional gas
17:57		<b>Mousa Lahdo</b> Optimized PID controller for a 6-DoF magnetic levitation positioning system		<b>Vladimir Gavrichkov</b> Superexchange theory in magnetic semiconductors with a variable spin under optical pumping



18:09	Chagall room	<b>Virginie Kluyskens</b> Design and experimental testing of a heteropolar electrodynamic bearing	Van Gogh room	<b>Daniele Gastaldo</b> Growth and magnetic characterization of germanium manganese Quantum Dots
18:21		<b>Zhe Sun</b> Nonlinear dynamics analysis of rotor-active magnetic bearings system		<b>S. Shanmukharao Samatham</b> Structural and magnetic properties of $Gd_5Sb_3$
18:33		<b>Mikhail Nikolaev</b> Dynamics of a flexible vertical rotor on active magnetic bearings during seismic disturbances		<b>Yulia Krasnikova</b> AFMR in noncollinear antiferromagnet $Mn_3Al_2Ge_3O_{12}$
18:45		<b>Alessandro Carpenito</b> Investigation on the effect of unbalanced actions to the dynamic response of experimental superconducting magnetically levitated bogie		<b>Jitendra Singh</b> XRR and XMCD investigation of 120 MeV $Ag^{8+}$ ion irradiation in Fe/MgO/Fe multilayer
18:57				<b>Andrey Svalov</b> Structure and magnetic properties of Tb-Co/Ti and Tb-Co/ $Al_2O_3$ multilayers
19:15	Dinner			
	Van Gogh room	Session: <b>Young researchers</b> Session chair: <i>Manuel Vazquez</i>		
20:30		<b>Martina Ahlberg</b> Droplet solitons in magnetic nanowires		
20:50		<b>Felix Büttner</b> Isolated skyrmions in a ferromagnet: from fundamentals to room temperature applications		
21:10		<b>Marek Frankowski</b> Voltage and current-driven dynamics of magnetic tunnel junctions		
21:30		<b>Daniele Pinna</b> Skyrmion gas manipulation for unconventional computing		
21:50		<b>Riccardo Tomasello</b> Theoretical study of skyrmion stationary behavior and dynamics		
22:10				



## Tuesday February 6<sup>th</sup>, 2018

8:00		Registration	
8:15			
	Chagall room	<b>Session: Spin orbit torque and skyrmions</b> Session chair: <i>Riccardo Tomasello</i>	Van Gogh room
8:30		<b>Mihai Miron</b> Magnetic origami	
8:42			
8:54		<b>Takahiro Moriyama</b> Spin torque switching of antiferromagnets	
			Van Gogh room
		<b>Session: Biomedical applications</b> Session chair: <i>Serena Fiocchi</i>	
9:06			<b>Horst Hahn</b> Controlling magnetism by electrochemical approaches
	Chagall room	<b>Session: Materials for energy</b> Session chair: <i>Jordi Sort</i>	Van Gogh room
9:18		<b>Victorino Franco</b> Thermal hysteresis of magnetocaloric materials: methods for their characterisation	
9:30			
9:42		<b>Manuel Vazquez</b> Domain structure and magnetisation reversal in multisegment cylindrical nanowire	
9:54			
10:06		<b>Virgil Provenzano</b> Novel magnetic behavior observed in polycrystalline NdCo <sub>5</sub> compound and Gd <sub>90</sub> Co <sub>2.5</sub> Fe <sub>7.5</sub> alloy subjected to a magneto-thermal protocol	
10:18	<b>Simone Fabbrici</b> Ni-Mn-In Heusler alloys showing both direct and inverse magnetocaloric effect for room temperature magnetic refrigeration	<b>Vincenzo Camisa</b> Effects of occupational exposure to electromagnetic fields (EMFs) in healthcare facilities	
			<b>Valerio De Santis</b> A novel magnetic field sensor for the compliance with EMF Directive 2013/35/EU
			<b>Akikatsu Fujimura</b> The analysis of an AC electromagnetic field for hemodynamics in human subjects
			<b>Claudio Grassi</b> Adult neurogenesis-dependent spatial learning and olfactory memory are enhanced by extremely low-frequency electromagnetic fields in mice
			<b>Teresa Castelo-Grande</b> The fate of nanomaterials



10:30	Coffee break			
10:45				
	Chagall room	<p>Session: <b>Micromagnetic modelling and spintronics</b> Session chair: <i>Giovanni Carlotti</i></p>	Van Gogh room	<p>Session: <b>Magnetic recording and magnetic memories</b> Session chair: <i>Francesca Casoli</i></p>
11:00	Chagall room	<p><b>Gianfranco Durin</b> Domain wall dynamics and creep phenomena in CoFeB/MgO structures</p>	Van Gogh room	<p><b>Lucian Prejbeanu</b> Ultrafast MRAM concepts for cache applications</p>
11:12				
11:24		<p><b>Eduardo Martinez</b> Micromagnetic analysis of the current driven domain wall motion along exchange-coupled ferromagnetic bi-layers</p>		<p><b>Gilles Gaudin</b> SOT-MRAM: an ultra-fast, infinitely enduring, non-volatile Memory</p>
11:36		<p><b>Gianluca Gubbiotti</b> Toward three-dimensional magnonic crystals</p>		
11:48				<p><b>Pirat Khunkitti</b> A novel detection technique for electromagnetic interference induced playback signal distortion in CPP-GMR read heads</p>
12:00		<p><b>Valery Pokrovsky</b> Bose-Einstein condensation of magnons in ferromagnetic films</p>		<p><b>Dimitris Kechrakos</b> Exchange-bias effect in surface-oxidized ferromagnetic nanowires with polycrystalline shells</p>
12:15	Lunch			
13:30				
13:45	Van Gogh	<p>Posters Session chair: <i>Cinzia Beatrice</i></p>		
15:00				
15:30				
	Chagall room	<p>Session: <b>Magnetic microscopy and imaging</b> Session chair: <i>Marco Coïsson</i></p>		
16:00	Chagall room	<p><b>Volker Neu</b> Quantitative MFM – probing magnetization structures on the nanoscale</p>		
16:12				
16:24		<p><b>Marcus Wyss</b> Imaging the magnetic stray field of an artificial chiral spin ice system</p>		



	Chagall room		Van Gogh room	Session: <b>Biomedical applications</b> Session chair: <i>Alessandra Manzin</i>
16:36		<b>Sukhvinder Singh</b> Evolution of stripe domains in ferromagnetic thin films		<b>Salvador Pané</b> Small-scale robots with magnetoelectric capabilities
16:48		<b>Thomas Blon</b> Size-specific spin configurations in Fe nanocubes probed by Magnetic Electron Holography and micromagnetic simulations: from flower to vortices		
17:00		<b>Joachim Gräfe</b> X-Ray microscopic observation of spin wave focussing by a Fresnel lens		<b>Eva Pellicer</b> Electrodeposition of trisegmented magnetic nanowires with antiparallel alignment and zero magnetization
17:12		<b>Dileep Misra</b> Low temperature high magnetic field magnetic force microscopic study in epitaxial $\text{La}_{5/8-y}\text{Pr}_y\text{Ca}_{3/8}\text{MnO}_3$ thin film		
17:24		<b>Gabriele Barrera</b> Imaging magnetisation processes in $\text{Fe}_{78}\text{Si}_9\text{B}_{13}$ thin films with perpendicular anisotropy by magnetic force microscopy		<b>Sergey Erokhin</b> Optimizing permanent magnets system for a magnetic targeted drug delivery
17:36		<b>Taylan Güneş</b> The magnetic and magneto-optical effects of laser cutting and spark eroding in electrical steels		<b>Riccardo Ferrero</b> Modeling and experimental analysis of the hysteresis losses of magnetic nanodisks for hyperthermia applications
	Chagall room	Session: <b>Mathematical modelling for hysteresis</b> Session chair: <i>Massimiliano d'Aquino</i>		
17:48		<b>Alexander Moskvin</b> Weak ferrimagnets with competing Dzyaloshinskii-Moriya coupling are perspective for the exchange-bias effect materials	<b>Luis Gómez</b> RGD-functionalized magnetite nanoparticles for magnetic hyperthermia as a treatment for colon cancer	
18:00		<b>Benedikt Schauerte</b> Flexible extension of hysteresis models for magnetic anisotropy	<b>Umberto Zanovello</b> An invisibility coat to reduce RF-artefacts in Magnetic Resonance Imaging	
18:12		<b>Michael Ortner</b> A semi-analytical model of a closed-core planar fluxgate structure	<b>Serena Fiocchi</b> Deep transcranial magnetic stimulation for the addiction treatment: electric field distribution modeling	
18:24				
18:36				
19:00	Conference dinner			





## Wednesday February 7<sup>th</sup>, 2018

8:00		Registration	
8:15			
	Chagall room	<b>Session: Magnetic recording and magnetic memories</b> Session chair: <i>Gaspare Varvaro</i>	Van Gogh room
8:30		<b>Pedram Khalili</b> Pushing the limits of energy efficiency and scaling in spintronics: voltage-control, spin-orbit torques, and microwave dynamics in magnetic tunnel junctions	
8:42			
8:54		<b>Christoph Vogler</b> Heat-assisted magnetic recording - recent progress and future perspectives of micromagnetic modeling	
9:06			
9:18		<b>Kevin O'Grady</b> Heat assisted magnetic recording using exchange bias	
9:30			
			<b>Session: FORC-based identification techniques</b> Session chair: <i>Vittorio Basso</i>
			<b>Felix Groß</b> FORC based interaction strength investigations in permalloy micro arrays
			<b>Alexandre Pierrot</b> FORC measurements and simulations in ultrahigh density arrays of single-crystal nanowires
			<b>Laurentiu Stoleriu</b> FORC diagrams identification of magnetization time dependent effects
			<b>Erik Ilse</b> Grain size dependent FORC investigations on rare earth based permanent magnets
			<b>Alexandru Stancu</b> Vectorial FORC-based measurement designed for probing anisotropy in multi-component ferromagnetic systems.
			<b>Alexandru Stancu</b> Magnetic relaxation effect on FORC-type measurement of 1D chains of Ising-Preisach hysteron systems.
			<b>Session: Spin orbit torque and skyrmions</b> Session chair: <i>Gianfranco Durin</i>
9:42		<b>Nuttapon Chaidangsri</b> An experimental study of background interference impact on signal-to-noise ratio in heat assisted magnetic recording	Van Gogh room
	Chagall room	<b>Session: Electrical machines and other electromagnetic devices</b> Session chair: <i>Antonio Laudani</i>	
9:54		<b>Taylan Güneş</b> 2-D static magnetic simulation of flux density distribution in transformer cores by ANSYS	



10:06	Chagall room	<b>Khadija Sofi</b> Electromagnetic pulse generator: analytical and numerical study of Lorentz force in tube crimping operation	Van Gogh room	<b>Mario Carpentieri</b> Ultra high sensitivity induced by the injection locking in spin-transfer torque diode
10:18		<b>Luke Guinane</b> High-Frequency Losses in Micro-Scaled Inductors and Transformers		<b>Boris Gross</b> Néel-type skyrmions in multiferroic lacunar spinels – Mapping out a stability phase diagram using dynamic cantilever magnetometry
10:30		<b>Stefano Palumbo</b> Friction effect on output power delivered from a Fe-Ga rod based vibrational transducer equipped with a ferromagnetic yoke		<b>Alexander Samardak</b> Enhanced spin orbit effects in ultrathin magnetic films with nanoscale engineered structural broken inversion symmetry
10:42		<b>Gregor Buettel</b> Occurrence and control of domain-wall resonance in thin-film giant magneto-impedance sensors		<b>Marek Frankowski</b> Spin Hall angle in W/CoFeB/Pt trilayers
10:54		<b>Paweł Janik</b> Magnetic field sensors overview and example application in helmet mounted cueing system		<b>Pavel Stremoukhov</b> Spin pumping and probe in permalloy dots-topological insulator bilayers
11:06				<b>Michele Ruggeri</b> Nonlinear dynamics of magnetic skyrmions
11:30	End of conference			



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**Posters, Tuesday February 6<sup>th</sup>, 2018, 13:45 – 16:00**  
*Van Gogh room*

<b>P01</b>	<b>Evgeni Frishman</b> The interaction forces in magnetic suspension systems of vertical type (MSVT)
<b>P02</b>	<b>Praveen Vir</b> Possibility of tuning the size of Antiskyrmions in $Mn_{1.4}PtSn$ with Iridium doping
<b>P03</b>	<b>Yuliia Gusieva</b> Phase shift of spin waves traveling through the interface with broken spatial inversion symmetry
<b>P04</b>	<b>Abdallah Oumsalem</b> Using electronic and magnetic properties of Heusler compounds to build a new generation of electronic devices
<b>P05</b>	<b>Mikhail Zagrebin</b> First-principles and Monte Carlo investigations of the magnetic properties of $(Co,Ni)CrIn$ Heusler alloys
<b>P06</b>	<b>Yadira Silveira</b> Effect of different application protocols of a static magnetic field of 47.23 mT in cultures of <i>Chlorella vulgaris</i>
<b>P07</b>	<b>Iordana Astefanoaei</b> Temperature field in the Magnetic Hyperthermia
<b>P08</b>	<b>Federica Celegato</b> Au-coated $Ni_{80}Fe_{20}$ nanodisks for biomedical applications
<b>P09</b>	<b>Federica Celegato</b> Solid-state dewetting of FePd thin films into magnetic nanoparticles
<b>P10</b>	<b>Vito Puliafito</b> Magnetization dynamics in an antiferromagnetic layer: a micromagnetic approach
<b>P11</b>	<b>Ko-Wei Lin</b> The effects of magnetic field annealing on structural and magnetic properties of ion-beam deposited $[Mn/Bi]$ multilayered thin films
<b>P12</b>	<b>Victor Los</b> Kinetics of electrons in layered nanostructures
<b>P13</b>	<b>Ilari Rissanen</b> Magnetic friction of disordered out-of-plane magnetized thin film systems
<b>P14</b>	<b>Anna Giordano</b> Multi-Node approach for setting a full micromagnetic framework - PETASPIN
<b>P15</b>	<b>Sergey Malkin</b> Calculation and experimental study of current regulators of current amplifier: three-stable hysteresis and PWM controller
<b>P16</b>	<b>Bulaievska Maryna</b> Biogenic magnetic nanoparticles in representatives of kingdom Fungi
<b>P17</b>	<b>Alona Duduk</b> Comparative characteristics of biogenic magnetic nanoparticles in plant, fungi and animal organisms



<b>P18</b>	<b>Mirosław Witos</b> Quantitative and qualitative analysis of magnetic Barkhausen noise
<b>P19</b>	<b>Mirosław Witos</b> Selecting transformer sheets with the method of low-frequency impedance
<b>P20</b>	<b>Maxence Van Beneden</b> Comparison between optimized topologies of permanent magnet thrust bearings with induced pole
<b>P21</b>	<b>Vladyslav Chumachenko</b> Programming simulation of high-gradient magnetic separation process based on cylinder-ball model of separator
<b>P22</b>	<b>Sergey Marenkin</b> Phase transitions in the Cd-Ge-As system
<b>P23</b>	<b>Irina Fedorchenko</b> ZnAs <sub>2</sub> – MnAs system phase diagram creation
<b>P24</b>	<b>Wala Dizayee</b> Magneto-Optics Properties of Graphite and Graphene
<b>P25</b>	<b>Alexander Gerber</b> Hall effect spintronics for gas detection
<b>P26</b>	<b>Farzad Nasirpour</b> Morphology, structure and first order reversal curve (FORC) studies of nickel nanoparticles electrodeposited on TiO <sub>2</sub> nanotube arrays
<b>P27</b>	<b>Mario Carpentieri</b> A hybrid Memristor/MTJ simulation framework for nano-oscillator devices
<b>P28</b>	<b>Guillermo Kindelán</b> Effect of the magnetic field on the dissolution of kidney stones
<b>P29</b>	<b>Prachi Mohanty</b> Giant exchange bias properties in “314 –type” Oxygen-vacancy ordered materials
<b>P30</b>	<b>Oksana Busel</b> Boundary conditions at the interface of finite thickness between ferromagnetic and antiferromagnetic
<b>P31</b>	<b>Vladimir Sokolovskiy</b> Magnetic and magnetocaloric properties of Pd <sub>2</sub> MnZ (Z=Ga, As, Sb) Heusler alloys: theoretical study
<b>P32</b>	<b>Gabriele Barrera</b> Hysteresis losses and specific absorption rate measurements in magnetic nanoparticles for hyperthermia applications
<b>P33</b>	<b>Sang-Bok Lee</b> Effect of pretreatment on magnetic nanoparticles growth on graphene surface and electromagnetic shielding performance in electroless plating
<b>P34</b>	<b>Marius Volmer</b> Experimental and micromagnetic characterization of exchange biased structures for sensing applications



<b>P35</b>	<b>Mathilde Stübner</b> Magneto-electrodeposition and characterization of Co-doped ZnO thin films
<b>P36</b>	<b>Oleg Rabinovich</b> Influence of MnAs size-effect on thermal and magnetostructural transformation in MnAs-ZnGeAs <sub>2</sub> alloys
<b>P37</b>	<b>Ioana Firastrau</b> Numerical investigation of the magnetization dynamics of a perpendicular polarizer-perpendicular free layer spin transfer torque nano-oscillator
<b>P38</b>	<b>Francesco Riganti-Fulginei</b> Vector Hysteron Model Implementation for 2-D dynamic hysteresis loops
<b>P39</b>	<b>Francesco Riganti-Fulginei</b> A New Dynamic Parameterization Of the Jiles-Atherton Model
<b>P40</b>	<b>Mislav Trbušić</b> Nonlinear analysis of the magnetic liquid free surface deformation in 3D space
<b>P41</b>	<b>Jacek Dybała</b> Non-destructive evaluation of stress in carbon steel based on magnetic methods
<b>P42</b>	<b>Jai-Lin Tsai</b> Magnetic switching behavior of granular FePt(BN,Ag,C) films
<b>P43</b>	<b>Paulo Augusto</b> Decontamination of wastewater and leachates by magnetic particles
<b>P44</b>	<b>Alessandro Formisano</b> Field computation in presence of magnetic materials using semi-analytical formulae
<b>P45</b>	<b>Benjamin Podmiljsak</b> Tailored metal injection moulding of isotropic NdFeB hard magnets based on recycled powders with and without Nd-additions
<b>P46</b>	<b>Jaejin Lee</b> Bit error rate comparison of island patterns for bit-patterned media recording
<b>P47</b>	<b>Sara Carcangiu</b> Rotational magnetization modeling by using a Tabu Search approach
<b>P48</b>	<b>Alexander Kamantsev</b> Electromagnetic waves emitted in VO <sub>2</sub> at metal-dielectric phase transition
<b>P49</b>	<b>Zhizhou Zhang</b> A mass adaptive control of an airborne inertial stabilized platform using magnetic bearings
<b>P50</b>	<b>Alexey Ognev</b> Crystal structure dependent magnetic properties of self-organized Co nanostrips probed by FORC technique
<b>P51</b>	<b>Oksana Pavlukhina</b> Modeling of the magnetic and structural properties of Fe-Rh-Co and Fe-Rh-Pt by first principles method
<b>P52</b>	<b>Roberto Zivieri</b> Non-reciprocal spin-wave propagation in spin-Hall oscillators: a two-dimensional analytical model



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<b>P53</b>	<b>Saïda Bahamida</b> Structural and magnetic properties of the A1 to L1 <sub>0</sub> transformation in polycrystalline Fe <sub>56</sub> Pd <sub>44</sub> alloy thin films produced by thermal evaporation technique
<b>P54</b>	<b>Giovanni Carlotti</b> Robustness of majority gates based on nanomagnetic logic
<b>P55</b>	<b>Giovanni Carlotti</b> Waveguides as short-wavelength spin wave sources for magnonic signal processing
<b>P56</b>	<b>Alan Molinari</b> Voltage-controlled on/off magnetism of La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> using an ionic liquid