

# M<sup>2</sup>OZART Workshop on Nanomagnetism

## 21-22 February 2019

### Zaragoza, Spain

Sala de Conferencias, Edificio I+D, Campus Rio Ebro,  
Universidad de Zaragoza

Organized by the International Associated Laboratory “M<sup>2</sup>OZART”  
(*Microscopy and Materials cOnsortium ZARagoza Toulouse*)



Instituto Universitario de Investigación  
en Nanociencia de Aragón  
Universidad Zaragoza



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THURSDAY, 21<sup>st</sup> FEBRUARY 2019

14 :45	<b>César MAGÉN</b> ICMA, Zaragoza	Welcome - Introduction.
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Session I - Chairman: Christophe Gatel

15 :00	<b>Dieter KOELLE</b> University of Tübingen	NanoSQUIDs for magnetization reversal detection and Josephson junctions created by focused He <sup>+</sup> beam irradiation.
15 :50	<b>José María DE TERESA</b> ICMA, Zaragoza	Superconducting nanostructures by Focused Ga <sup>+</sup> and He <sup>+</sup> -Beam Induced Deposition.
16:10	<b>Javier PABLO</b> INA, Zaragoza	Development and optimization of advanced functional magnetic nanostructures grown by Focused Electron Beam Induced Deposition.
16:30	<b>M<sup>+</sup> José MARTÍNEZ-PÉREZ</b> ICMA, Zaragoza	NanoSQUID magnetometry on individual as-grown and annealed Co nanowires at variable temperature
16:50	Break	

Session II - Chairman: Jose María de Teresa

17:20	<b>Lucas Perez</b> Univ. Complutense de Madrid	XMCD-PEEM: a tool to study magnetic nanomaterials.
18:10	<b>Irene LUCAS</b> INA, Zaragoza	Thin films for thermal Spintronics.
18:30	<b>Christophe GATEL</b> CEMES, Toulouse	In situ off-axis Electron Holography for quantitative studies of magnetic properties at the nanoscale: examples and prospects.
18:50	<b>Aurelien MASSEBOEUF</b> CEMES, Toulouse	Dynamical micromagnetism through Lorentz Microscopy.
19:10	End of Session	

FRIDAY, 22<sup>nd</sup> FEBRUARY 2019

Session III - Chairman: César Magén

9:00	<b>Olivier FRUCHART</b> SPINTEC, Grenoble	Dynamics of magnetic domain wall motion in cylindrical nanowires.
9:50	<b>Nicolas BIZIERE</b> CEMES, Toulouse	Micromagnetic study of magnetic states in Co/Cu multilayered cylinders observed by electron holography.
10:10	<b>Alexandre PIERROT</b> LPCNO, Toulouse	Micromagnetic behavior of single crystal nanowires array probed by FORC measurements and OOMMF simulations.
10:30	<b>Ingrid-Marie ANDERSEN</b> CEMES, Toulouse	Magnetic configurations in complex magnetic nanowires studied by off axis electron holography.
10:50	Break	

Session IV - Chairman: Etienne Snoeck

11:20	<b>Benjamín MARTÍNEZ</b> ICMAB, Barcelona	Spontaneous self-assembly of magnetic nanoparticles.
12:10	<b>Gerardo GOYA</b> INA, Zaragoza	Improving heat production in magnetic hyperthermia from low-dimensional nanostructures.
12:30	<b>Adán MATEU</b> INA-LPCNO, Zaragoza-Toulouse	Synthesis, characterization and functionalization of carbon-coated magnetic nanoparticles of Fe, Fe <sub>3</sub> O <sub>4</sub> and FeC.
12:50	<b>Manuel VÁZQUEZ</b> ICMM, Madrid	Modulated cylindrical nanowires.
13:10	Closure	