

ECMOLS

2nd European Conference on Molecular Spintronics

Peñíscola (Castellón, Spain), 21-24 October 2018

SUNDAY 21st

09:00-18:00 Excursion to Morella

19:00-20:15 ECMOLS 2018 Registration

20:30 Dinner

MONDAY 22nd

8:30-8:45 Conference Welcome

8:45-9:30 **J. S. Moodera** - Massachusetts Institute of Technology – MIT USA
Frontier of Molecular Spin Engineering - the molecule/ferromagnet interface

9:30-10:00 **M. Bowen** - IPCMS Strasbourg, France
Nanospintronic path across organic spininterfaces and paramagnetic centers

10:00-10:20 **C. Barraud** - Université Paris Diderot, France
Spin transport through graphene/molecules-based magnetic tunnel junctions

10:20-10:40 **B. Quinard** - CNRS - Thales, France
Spin-dependent transport in organic self-assembled monolayers

10:40-11:10 Coffee break

11:10-11:40 **V. Repain** - Paris Diderot University, France
Interplay between epitaxial relationship and spin texture in a monolayer of spin-crossover molecules adsorbed on a metallic surface

11:40-12:00 **T. Moorsom** - University of Leeds, United Kingdom
Spin dependent capacitance at metal-oxide molecule interfaces

12:00-12:20 **K. Pedersen** - Technical University of Denmark, Denmark
A Non-Innocent Coordination Chemistry Approach to 2D Conductive Magnets

12:20-12:40 **S. Piligkos** - University of Copenhagen, Denmark
Surface deposition of Ln-based molecular qubits

12:40-13:10 **H. Sirringhaus** - University of Cambridge, United Kingdom
Charge and Spin Transport Physics of Organic Semiconductors

13:10-16:30 Lunch + free time

16:30-17:15 **F. Jelezko** - Ulm University, Germany
Photoelectrical readout of single spins in diamond

17:15-17:45 **O. Céspedes** - University of Leeds, United Kingdom
Spin Physics in C60 Interfaces

17:45-18:05 **M. Yamashita** - Tohoku University, Japan
Quantum Molecular Spintronics Based on Single-Molecule Magnets: Single-Molecule Memory, Spin Qubits, and Rabi Nutation

18:05-18:25 **M. Shatruk** - Florida State University, United States
Multifunctional Materials Combining Spin-Crossover and Conductivity

18:30-20:15 Coffee break + Poster session

20:30 Dinner

TUESDAY 23rd

8:45-9:30	L. Venkataraman - Columbia University, USA <i>Quantum interference based single-molecule insulators</i>
9:30-10:00	A. Bleszynski - UC Santa Barbara, USA <i>Imaging Nanoscale magnetism with a single spin quantum sensor</i>
10:00-10:20	Y. Manassen - Ben Gurion University, Israel <i>New possibilities of single spin detection with the scanning tunneling microscope</i>
10:20-10:40	L. Malavolti - University of Stuttgart, Germany <i>Tuning the spin-superconductor interaction using a molecular spin</i>
10:40-11:10	Coffee break
11:10-11:40	E. Burzurí - IMDEA Nanociencia, Spain <i>Spin-signatures in single-molecule/graphene electronic devices</i>
11:40-12:00	M. Gruber - CAU Kiel, Germany <i>Deposition and selective switching of a cationic Fe(III) compound on Au(111) and Cu₂N</i>
12:00-12:20	C. Barreteau - CEA, IRAMIS, SPEC, France <i>Modelling of the magnetic anisotropy of molecule/ferromagnets interfaces</i>
12:20-12:40	C. Jiménez-Calzado - Universidad de Sevilla, Spain <i>Giant ferromagnetic π-d interaction in iron-phthalocyanine molecule: magnetism in hybrid organic-inorganic systems</i>
12:40-13:10	C. Rovira - ICMAB-CSIC, Spain <i>Carbon based radicals for electronic materials</i>
13:10-16:30	Lunch + free time
16:30-17:00	N. Pascual - nanoGUNE, Spain <i>Turning on magnetism in graphene nanostructures</i>
17:00-17:30	O. Tal - Weizmann Institute of Science, Israel <i>Nonmagnetic single-molecule spin filter based on quantum interference</i>
17:30-17:50	I. Ratera - ICMAB-CSIC, Spain <i>Reversible Switching of the Au(111) Work Function by Near Infrared Irradiation with a Bistable SAM Based on a Radical Donor-Acceptor Dyad</i>
17:50-18:10	G. Zamborlini - TU Dortmund, Germany <i>Functionalized Nickel Porphyrins on copper: electronic properties and adsorption configuration</i>
18:10-18:40	L. Bogani - University of Oxford, United Kingdom
18:40-20:15	Coffee break + Poster session
20:30	Dinner

WEDNESDAY 24th

8:45-9:30	D. Loss - University of Basel, Switzerland
9:30-10:00	M. Affronte - University of Modena and Reggio Emilia, Italy <i>Addressing graphene based nano-architectures for spin and photon detection</i>
10:00-10:20	A. Chiesa - University of Parma, Italy <i>Coherent Manipulation of a Molecular Ln-Based Nuclear Qudit Coupled to an Electron Qubit</i>
10:20-10:40	F. Donati - Ewha Womans University, Republic of Korea <i>Spin dynamics of Ho single atom magnets</i>
10:40-11:10	Coffee break
11:10-11:40	J. Van Slageren - University of Stuttgart, Germany <i>EPR investigations of potential molecular quantum bits</i>
11:40-12:00	R. Sessoli - Università di Firenze, Italy <i>Electric field modulation of magnetic exchange in molecular helices</i>
12:00-12:20	G. Aromi - Universitat de Barcelona, Spain <i>Lanthanide molecular two- and three-qubit qugates for quantum computing</i>
12:20-12:40	B. Sieklucka - Jagiellonian University, Poland <i>Conversion of light into magnetization by heterometallic coordination frameworks incorporating octacyanidometallate metalloligands</i>
12:40-13:10	A. Gaita-Ariño - Universitat de Valencia, Spain <i>From molecular dynamics and towards spin dynamics in molecular nanomagnets and spin qubits</i>
13:10-16:30	Lunch + free time
16:30-17:00	I. Díez-Pérez - King's College London, UK <i>Spin-dependent Transport in Bioinspired Single-Molecule Junctions</i>
17:00-17:30	F. Tuna - University of Manchester, United Kingdom <i>Preserving Quantum Coherence in Molecular Magnetic Systems through the Engineering of Isotropic Electronic Structures</i>
17:30-17:50	T. Mallah - Université Paris Sud, France <i>Mono-, bi- and trinuclear Ni(II) complexes as potential candidates for qubits</i>
17:50-18:10	S. Cardona-Serra - Instituto de Ciencia Molecular, Spain <i>Engineering molecules for Spintronics. Vanadium complexes as molecular transistors</i>
18:10-18:30	A. Popov - IFW Dresden, Germany <i>Surface magnetism of endohedral metallofullerene single molecule magnets on metal substrates</i>
18:30-18:50	E. Rentschler - Mainz University, Germany <i>Magnetic Anisotropy in mixed 3d-4f Metallocrown complexes</i>
20:30	Banquet at Mandarin Club