

Tuesday 15	
9.00-13.00	ECMolS Registration
10.13	WG2 workshop Chairs: Uta Schlickum and Sebastian Loth
13.00- 14.00	Lunch
14.00-14.10	Conference Welcome A. Cornia Forging Single-Molecule Magnets for spintronics: background, achievements and current trends
14.10-14.50	A. Lunghi Spins and Phonons as a Whole System: the Role of Environment on the Spin Relaxation of Single Molecule Magnets
14.50-15.10	N.F. Chilton Electronic Structure of Uranium(V)-Nitride Complexes
15.10-15.30	B. Tsukerblat A paradigm of quantum-dot cellular automata: molecular implementation
15.30-15.50	R. Gaudenzi Scraping the Landauer limit at high speeds with a quantum nanomagnet
16.10 16.40	coffee break
16.40-17.10	M. Yamashita Giant- and Tunneling-Magnetoresistance Based on Single-Molecule Magnets
17.10- 17.30	L. Persichetti Magnetic bistability in single atoms
17.30-17.50	M. Bernien Light-Induced Spin-State Switching of an Fe(II) Complex in Direct Contact with a Solid Surface
17.50-18.10	T. Mallah Engineering exchange coupling and magnetic anisotropy at the molecule/magnetic electrode interface in molecular spintronic devices
18.10- 18.30	A. Bellec Molecular scale dynamics of light-induced spin crossover in a two-dimensional layer

Wednesday 16* at the "Oratorio San Filippo Neri" Via Manzoni 5		
9.00-9.40	P. Seneor Molecular spintronics: new opportunities beyond conventional materials	
9.40-10.00	L. Hueso Spin-optical molecular devices	
10.00-10.20	M. Mannini The challenge of embedding complex molecules in spintronic devices: a multitechnique approach	
10.20-10.40	J. Veciana Chemical control over the energy-level alignment in a two-terminal junction	
10.40-11.10	coffee break	
11.10-11.40	A. Riminucci Transport regimes in organic spintronic devices	
11.40-12.00	S. Heutz Flexible ferromagnetic films and nanostructures	
12.00-12.30	A. Forment Aliaga Self-assembled monolayers on ferromagnets: A solution approach for molecular spintronics	
12.30-14.00	Lunch at "Sala Borsa" Piazza del Nettuno, 3	
14.00- 14.30	M. Bowen Simple and advanced ferromagnet/molecule spininterfaces	
14.30-14.50	N. Pascual Tuning the magnetism of transition metal atoms with Hydrogen atoms	
14.50-15.10	A. Droghetti Tailoring charge and spin transport by hybrid interface design	
15.10-15.30	A. Pratt Oscillatory spin polarisation at organic semiconductor/ferromagnetic interfaces	
15.30-15.50	F. Tassinari PNAs and oligopeptides self-assembled monolayers as spin filters	
15.50-16.20	coffee break	
16.20- 16.50	N. Atodiresei Magnetic Exchange Interactions at Hybrid Interfaces	
16.50- 17.10	I. A. Kowalik Towards single molecule spin filters: organic chiral molecules on metal surfaces	
17.10- 17.30	S. Majumdar Proximity-induced spin polarization of graphene in contact with half-metallic manganite	
17.30- 18.00	M. Cshiev Anatomy of the perpendicular magnetic anisotropy of cobalt/graphene interfaces	

Thursday 17		
9.00-9.30	E. Burzuri Electron transport through individual all-organic polyradicals	
9.30-9.50	E. Ruiz Magnetoresistance in Single-Molecule Devices based on Magnetic Mononuclear Transition Metal Complexes	
9.50-10.10	A. Candini TbPc2 Single-Molecule Transistor with graphene electrodes	
10.10-10.30	W. Wulfhekel Spin crossover complexes on ferromagnetic substrates	
10.30-11.00	coffee break	
11.00-11.40	J. Sinova Relativity shakes future technology: how the spin Hall effect and relativistic torques are opening new paths for information storage	
11.40-12.00	L. Malavolti Spin sensing with atomically assembled nanomagnets	
12.00-12.20	T. Jung Configuring Electronic States in an Atomically Precise Array of Quantum Boxes	
12.20-12.40	O. Tal Atomic scale half metallicity: Rational design of extreme spin filtering and high magnetoresistance in atomic and molecular junctions	
12.40-13.10	M. Cinchetti Functionalizing spin-textured 2D electronic systems with tailored organic bonds	
13.10-14.00	Lunch & poster	
14.00-15.00	Poster session	
15.00-15.30	W. Wernsdorfer Quantum gate and algorithm using a single molecular magnet	
15.30-18.30	WG1 Workshop Chair: Luis Hueso	
18.30-20	MC meeting	
20.15	Social dinner Circolo Ufficiali via Marsala Bologna	

Friday 18		
9.00-9.30	S. Hill EPR Studies of Molecular Lanthanide Spin Qubits	
9.30-9.50	J. Van Slageren Decoherence mechanisms in molecular quantum bits	
9.50-10.10	G. Aromi Dinuclear Lanthanide Complexes as Two-Qubit Molecular Spin Quantum Gates	
10.10-10.30	J. F. Soria A supramolecular approach to implement universal quantum gates	
10.30-11.00	coffee break	
11.00-11.40	J. Morton Molecular spins and quantum technologies	
11.40-12.00	J. Majer Hybrid Quantum Systems: Coupling Diamond Color Centers and Molecular to Superconducting Cavities	
12.00-12.20	M. Ruben Towards quGates Switching of a Coupled Spin Pair in a Binuclear Co(II)2 Complex	
12.20-12.40	F. Tuna Rabi Oscillations at room temperature in a Y-Yb single crystal	
12.40-13.00	S. Piligkos Towards Molecular 4f Single-Ion Magnet Qubits	
13.00-14.00	Lunch & poster	
14.00-15.00	Poster session	
15.00-15.20	Closing ceremony and prizes	
15.30-18.30	WG 3 Workshop Chair: Fernando Luis	
Key Note Lecture		
Invited Lecture		
Contributed talk		

