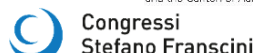
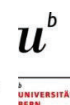


Program

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY
Morning (8:15 – 12:15)		Quantum coherent Systems	Electron/Spin coupled systems: Arrays, chains and networks	Molecular quantum bits and supramolecular integration	Novel Quantum Systems Closing Remarks
Lunch 12.30					Lunch bags Departure from 12:30 onward
Afternoon (15:00 – 18:30)	Registration	Single spins emerging into collective quantum systems	Excursion	New approaches	
Dinner 19.00		Poster Session with Drinks / Snacks	Poster Session with Drinks / Snacks	Evening Talk: Quantum Tech	
Evening		Poster Session with Drinks / Snacks		Conference Dinner	



University of Basel



Detailed Program: Monday, Tuesday

Monday morning -		Chairs: H. Brune, C. Wolf
Time	Speaker	Title
08:00-08:15	Introduction	
08:15-08:45 (inv)	K. Franke, Freie Universitaet, Berlin	Quantum spins and hybridization in artificially-constructed chains of magnetic adatoms on superconducting 2H-NbSe ₂
08:45-09:15 (inv)	Ph. Willke, Karlsruhe Inst of Technology, Karlsruhe	Single Spin Resonance of Individual Atomic and Molecular Spins on a Surface
09:15-09:45	S. Kovarik, ETH Zuerich	Electron Paramagnetic Resonance of Alkali Metal Dimers on Ultrathin MgO
09:45-10:15	Coffee break	
10:15-10:45 (inv)	N. Lorente, Materials Physics Center, San Sebastian	Characterization of Majorana bound states at the edge of spin chain on s-wave superconductors
10:45-11:15	Y. Bae, IBS, Korea	Quantum Control of Multi-Spin Architectures on a Surface
11:15-11:45	L.M. Veldman, TU Delft, Delft	Controlled migration of a coherent spin excitation through atomically assembled nanomagnets
12:30	Lunch	
Monday afternoon -		Chairs: P. Gambardella, N. Lorente
Time	Speaker	Title
15:00-15:30 (inv)	O. Yazyev, EPFL Lausanne	Graphene nanoribbon junctions as elementary components of nanoelectronic circuits
15:30-16:00	X. Huang, Aalto University, Aalto Finland	Two-dimensional heavy fermions in NbSe ₂ heterostructure
16:00-16:30	F. Donati, IBS Korea	Mapping Orbital-Resolved Magnetism in Single Lanthanide Atoms
16:30-17:00	Coffee break	
17:00-17:30 (inv)	A. Ardavan, Univ Oxford	Electric field control of spins in piezoelectrics, molecules, and on surfaces
17:30-18:00	B. Lowe, Monash Univ, Clayton, Australia	Strong correlations in a two-dimensional Kagome metal-organic framework
18:00-18:30	Chun-Liang Lin, National Yang Ming Chiao Tung University, Taiwan	Superconductivity in Plumbene-Au Kagome Superstructure
19:00	Dinner	
Tuesday morning -		Chairs: K. Franke, Ph. Willke
Time	Speaker	Title
08:15-08:45 (inv)	R. Wiesendanger, Uni Hamburg	Emergent Majorana States in Disorder-Free Bottom-Up Fabricated Atomic Spin Chains Proximity-Coupled to Clean Superconducting Substrates
08:45-09:15	C. Boix-Constant, Uni Valencia	Interplay between spin-crossover molecules and two-dimensional crystals in van der Waals heterostructures
09:15-09:45	S. Rusponi, EPFL Lausanne	Intra-atomic exchange driving the spin dynamics in rare-earth single-atom magnets
09:45-10:15	Coffee break	
10:15-10:45 (inv)	R. Pawlak & E. Meyer, Univ Basel	A two-dimensional array of molecular quantum dots on superconducting Pb(111)
10:45-11:15	O. Stetsovych, Academy of Sciences, Prague	Atomic-Spin Sensing of 1D Molecular Chains with functionalized SPM probe
11:15-11:45	S. Mishra, IBM Research - Zurich	Fractionalization in carbon-based quantum spin chains
12:30	Lunch	

Detailed Program: Wednesday, Thursday

Wednesday morning – Molecular Quantum bits and supramolecular Integration		Chairs: A. Ardavan, M. Svecs
Time	Speaker	Title
08:15-08:45 (inv)	C. Lambert, Univ. Lancaster	How to deal with noisy neighbours: Molecular-scale quantum interference for beginners
08:45-09:15	J. van Slageren, Uni Stuttgart	Modular platform for 2D regular arrays of molecular qubits: Towards quantum device integration
09:15-09:45	J. Dolezal, Academy of Sciences, Prague	Real Space Visualization of Entangled Excitonic States in Charged Molecular Assemblies
09:45-10:15	Coffee break	
10:15-10:45 (inv)	J. Fernandez-Rossier, Braga, Portugal	Towards measurement based quantum computing with graphene trianguelenes
10:45-11:15	L. Kosche, Karlsruhe Institute of Technology, Karlsruhe	Electrical read out of the nuclear spin and implementation of quantum algorithms on Tb ₂ Pc ₃ triple decker
11:15-11:45	R. Berndt, Uni Kiel, Kiel	Molecules on a Superconductor: Inducing Magnetism and Resonance-Enhanced Vibrational Spectroscopy
11:45-12:15	L. Poggini, Uni Firenze, Firenze	Electron delocalization in a metallocene qbit layer via intramolecular interactions
12:30	Lunch	
Wednesday afternoon – New Approaches		Chairs: M. Calame, C. Lambert
Time	Speaker	Title
15:00-15:30 (inv)	S. Sanvito, Trinity College, Dublin	Spin-phonon-induced spin relaxation in molecular qubits and single-molecule magnets
15:30-16:00	Z. Chen, Dep of Materials, Univ of Oxford	Phase-Coherent Charge Transport through a Porphyrin Nanoribbon-Graphene Junction
16:00-16:30	C. Lotze, Freie Univ Berlin	Moiré tuning of spin excitations: Individual Fe atoms on MoS ₂ /Au(111)
16:30-17:00	Coffee break	
17:00-17:30	R. Schlitz, Dep of Materials, ETH Zuerich	Electron Paramagnetic Resonance in a Scanning Tunneling Microscope
17:30-18:00	Th. Greber, Uni Zuerich	Atoms in C80 cages as prototype nano spin objects that can be manipulated
Wednesday evening – The Quantum Technology View		Chair: J. Dreiser
Time	Speaker	Title
18:15-18:45 (inv)	P. Maletinsky, Univ Basel	Quantum sensing of atomically thin magnets
19:00	Dinner	
Thursday morning – Novel Quantum Systems		Chairs: S. Decurtins, E. Meyer
Time	Speaker	Title
08:15-08:45 (inv)	H. Anderson, Univ Oxford	Porphyrin-Based Molecular Wires for Engineering Quantum Architectures
08:45-09:15	A. Powell, Karlsruhe Inst Technology, Karlsruhe	High Spin Manganese Coordination Cluster Molecules on the Ground and in the Air
09:15-09:45	E. Sierda, Radboud University, Nijmegen	Emulating organic molecular orbital structure with artificial atoms on a surface
09:45-10:15	Coffee break	
10:15-10:45	T. Esat, Forschungszentrum Juelich, Juelich, Germany	An extremely weakly coupled and mechanically soft molecular spin ½ system on a metal surface
10:45-11:15 (inv)	P. Koegele, RWTH Aachen	Spintronic Effects of Chemisorbed Aromatic Cyclophanes
11:15-11:45	Closing remarks and QMol best poster award ceremony	
12:30	Lunch bags	

