

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY
Morning (8:15 – 12:15)		Quantum Architectures I	Embedded Electron & Spin States	Controlling Electron & Spin in Quantum Systems	Quantum Architectures II Closing Remarks
Lunch 12.30 unless specified					Lunchbuffet 12.00 / Lunchbags Departure from 13.15. onward
Afternoon (14:30 – 18:30)	Registration	Probe Sensors & Sensing I	Excursion	Probe Sensors & Sensing II	
		Industry Presentations			
Dinner 19.00				Conference Dinner	
Evening		Poster Session with Drinks / Snacks	Poster Session with Drinks / Snacks		

Monday morning -	Quantum Architectures I	Chairs: P. Gambardella, H.Y. Gao
Time	Speaker	Title
09:00-09:15	Opening / Introduction	
09:15-09:45 (inv)	D. J. Choi	Building quantum matter one atom at a time
09:45-10:15 (inv)	H. J. Gao	Ordered and tunable Majorana-zero-mode lattice in iron-based superconductors
10:15-11:00	Coffee break	
11:00-11:30 (inv)	R. Pawlak	Designing spin architectures on superconductors with radical molecules
11:30-12:00	L. Huang	Building spin-1/2 antiferromagnetic Heisenberg chains with diaza-nanographenes
Monday afternoon -	Probe Sensors & Sensing I	Chairs: Chr. Waeckerlin, M. Flatte
Time	Speaker	Title
14:30-15:00 (inv)	L. Sellies	Electron Spin Resonance Scanning Tunneling Microscopy of Atomic Chains
15:00-15:30 (inv)	P. Jelinek	Strongly correlated molecules on surfaces: SPM study
15:30-16:00 (inv)	Y. Bae / S. Kovarik	Spin dynamics of individual atoms and molecules on surfaces probed with electron paramagnetic resonance in STM
16:00-16:30	Coffee break	
16:30-17:00	U. Gerstmann	Understanding ESR-STM signatures of single spins at surfaces – Relativistic orbital effects in Density Functional Theory (DFT)
17:00-17:30 (inv)	T. Esat	Quantum Sensing with Molecular Spins on Surfaces and Scanning Probe Tips
17:45-18:00	E. Anargirou	Cryogen-free low temperature SPM for quantum research
18:00-18:15	D. Radosavkic	RHK PanScan Freedom: Cryogen-free LT SPM Systems
Tuesday morning -	Embedded Electron & Spin States	Chairs: S.X. Liu, N. Lorente
Time	Speaker	Title
09:00-09:30 (inv)	R. Sessoli	Electric Fields and Light for the Control of Molecular Spin Qubits
09:30-10:00 (inv)	U. Aschauer	Molecular-radical spin lattices
10:00-10:30	Coffee break	
10:30-11:00 (inv)	F. von Rohr	Discovery of Quantum Materials by Combining Chemical and Physical Design Principles
11:00-11:30 (inv)	N. Avarvari	Chirality induced spin selectivity with helicene and tetrathiafulvalene based materials
11:30-12:00	A. Powell	Icosanuclear high spin cyclic clusters with multifunctional and lanthanide-dependent properties
12:00-12:30	K.H. Ernst	Magneto-Chiral Phenomena of Helical Aromatics on Surfaces

Wednesday morning – **Controlling Electron & Spin in Quantum Systems**

Chairs: H. Brune, R. Sessoli

Time	Speaker	Title
09:00-09:30 (inv)	K. Franke	Atomic-scale Josephson junctions with magnetic adatoms and nanostructures
09:30-10:00 (inv)	M. Tenorio	Coordinative Self-assembly of Pi-electron magnetic Porphyrins
10:00-10:30 (inv)	R. Blick	Coupling Electron and Nuclear Spins in Isotopically Engineered Graphene: Towards a Hybrid Spin Quantum Memory
10:30-11:00	Coffee break	
11:00-11:30	F. Donati	Lanthanide atoms on surfaces: a novel spin qubit candidate
11:30-12:00	M. Lanza	Towards Quantum sensing of arbitrary signals with molecular spins
12:00-12:30	A. Vishwakarma	Geometry-dependent spin-spin coupling and transport in coupled pentacene dimers

Wednesday afternoon – **Probe Sensors & Sensing II**

Chairs: P. Jelinek, K. Franke

Time	Speaker	Title
14:30-15:00 (inv)	C. Degen	Imaging of antiferromagnetic and ferroelectric materials with a single spin quantum magnetometer
15:00-15:30 (inv)	S. Stepanow	Single-Spin Control in Molecules via Quantum Spin Torques from Spin-Polarized Currents
15:30-16:00 (inv)	M. Flatte	Probing μeV Dynamic Spin Interactions with Spin-Polarized DC Scanning Tunneling Spectroscopy
16:00-16:45	Coffee break	
16:45-17:15 (inv)	L. Limot	Single-spin sensing: A molecule-on-tip approach
17:15-17:45 (inv)	B. Schuler	Probing Atomic Defects in 2D Semiconductors with Lightwave-Driven STM

Thursday morning – **Quantum Architectures II**

Chairs: A. Khajetoorians, F. von Rohr

Time	Speaker	Title
09:00-09:30 (inv)	A. Khajetoorians	A quantum simulator to study electronic structure in extreme magnetic fields
09:30-10:00 (inv)	N. Lorente	Simulations of time-dependent spin chains using a quantum computer
10:00-10:30	Coffee break	
10:30-11:00	P. Wilke	Quantum Spin-Engineering in On-Surface Molecular Ferrimagnets
11:00-11:30	H. T. Bui	An atomic-scale multi-qubit platform using single electron spins on surfaces
11:30-12:00		Closing remarks and spinQueST best poster award