Time	2023.10.10 Tuesday		Time	2023.10.11 Wednesday		2023.10.12 Thursday		2023.10.13 Friday	
9:00~9:45	Registration & Coffee Break		9:00~9:30	Registration & Coffee Break					
9:45~10:00 (15')	Opening Session 1. Noh Do Young, IBS president 2. Sessoli Roberta, University of Florence 3. Chong Yonuk, SKKU		9:30~10:10 (40')	**Session 1** **Spin qubits in color centers and dopants** **Chair: Wonjun Jang**	**Coherence enhancement of solid-state qubits by scanning probe microscopy (Ying Jiang)**	**Session 3** **Quantum control in molecular qubits** **Chair: Lukas Spree**	**Chirality as a new tool for addressing molecular spin qubits (Roberta Sessoli)**	**Session 5** **Quantum limits of mechanical motion** **Chair: Massine Kelai**	**Spin-coupled optomechanical systems in diamond (Ania Jayich)**
10:00~10:30 (30')	**Tutorial Talk** **Chair: Michelle Randall**	Quantum-coherent Nanoscience (Andreas Heinrich)	10:10~10:30 (20')		Autonomous coherence protection of a two-level system in a fluctuating environment (Isaac Fernando Quijandria Diaz)		Reversible spin-optical interface in luminescent organic radicals (Sebastian Gorgon)		Quantum Acoustics: surface acoustic waves-assisted single-photon emissions (Seok-Kyun Son)
			10:30~11:00		Coffee Break		Coffee Break		Coffee Break
10:30~11:30 (60')		Introduction to semiconductor spin qubits (Andrea Morello)	11:00~11:40 (40')		**Encoding quantum information in high-spin nuclei (Andrea Morello)**		**Coherent Effects in Porphyrin-Based Molecular Wires and Nanorings (Harry Anderson)**		**Mechanical oscillators toward quantum sensing (Junho Suh)**
			11:40~12:00 (20')		Coherent quantum state manipulation and error corrections on an electron-nuclear spin qudit system (Sumin Lim)		Hyperfine interactions in open-shell planar carbon nanostructures (Sanghita Sengupta)		Non-Linear Nanomechanical Dynamics Induced by Single-electron Tunneling (Kushagra Aggarwal)
11:30~12:00 (30')		Quantum-coherent Science in Korea (Yonuk Chong)	12:00~12:20 (20')		Universal nuclear two-qubit logic operation in an exchange-coupled donor system (Holly Stemp)		Controlling Quantum Spin Dynamics in Nanoscale Molecular Qubits (Stephen Hill)		Toward hybrid quantum systems based on solid-state spin qubits (Dongkwon Lee)
12:00~13:30 (90')	Lunch & Coffee break		12:20~13:50 (90')	Lunch & Coffee break					
13:30~14:30 (60')	**Tutorial Talk** **Chair: Michelle Randall**	Entanglement of surface spins – a theory perspective (Christoph Wolf)	13:50~14:30 (40')	**Session 2** **Quantum nano-photonics** **Chair: Dmitriy Borodin**	**A low-noise quantum dot in an open microcavity (Mark Hogg)**	**Session 4** **Quantum surface science** **Chair: Valeria Sheina**	**Coherent control of spins on surfaces using scanning tunneling microscopy (Yujeong Bae)**	**Session 6** **Spin qubits in quantum dots** **Chair: Corina Urdaniz**	**Correction of phase errors in Si spin qubits (Seigo Tarucha)**
			14:30~14:50 (20')		Efficient single photon emissing from a quantum dot in a double solid immersion lens structure (Donghan Lee)		Building highly entangled spin states with Carbon (Elia Turco)		Coherence of a singlet-triplet qubit driven by magnetic field gradient in isotopically purified silicon (Dohun Kim)
14:30~14:50	Group Photo 1		14:50~15:20		Coffee Break		Coffee Break		Coffee Break
14:50~15:30	Move to QNS		15:20~16:00 (40')		**Single molecules in slow motion videography (Rupert Huber)**		**Single-molecule electron-spin resonance with atomic force microscopy (Lisanne Sellies)**		**Designing and probing high-fidelity spin qubits and their environment (Guido Burkard)**
15:30~17:00 (90')	QNS Building Tour with Coffee Break		16:00~16:20 (20')		A photonic which-path entangler based on longitudinal cavity-qubit coupling (Zoé McIntyre)		Lanthanide Atoms on Surfaces: From Single Atom Magnets to Spin Qubit Candidates (Fabio Donati)		Identifying Pauli Spin Blockade using Deep Learning (Jonas Schuff)
			16:20~16:40 (20')		Towards single quantum emission in 2D semiconductors captured at the single-defect level by scaning tunnelling luminescence (Bent Weber)		Probing the dynamics of individual spins coupled to a superconductor using stochastic resonance (Nicolaj Betz)		Charge-sensing of a Ge/Si core/shell nanowire double quantum dot using a high-impedance superconducting resonator (Pierre Chevalier Kwon)
17:00~18:30 (90')	**<u>Poster Session 1</u>** with light meal		16:40~17:20	Move to QNS		Excursion (200')		Closing Session/ Group Photo 2	
			17:20~18:50 (90')	**<u>Poster Session 2</u>** with light meal					
18:30~19:30 (60')	Women in Science: Panel Discussion		18:50~20:00						