

	Wednesday, June 11th	Thursday, June 12th	Friday, June 13th
9:00		SESSION 3: Quantum Computing <i>Chair: Michał Nowak</i>	SESSION 7: Biocomputing/Molecular Computing <i>Chair: Zoran Konkoli</i>
9:15		<i>Can we build a topological qubit in 2025?</i> Henry Legg (University of St. Andrews, St. Andrews, UK)	<i>From Chemical Waves to Fungal Networks</i> Andrew Adamatzky (University of the West England, Bristol, UK)
9:30		<i>Superconductor-quantum dot hybrid chains for quantum technologies</i> Grzegorz Mazur (University of Oxford, Oxford, UK)	<i>Photochromic systems and oscillatory chemical reactions for the development of Chemical Artificial Intelligence</i> Pier Luigi Gentili (University of Perugia, Perugia, ITALY)
9:45			
10:00	Registration (10:00-14:00)	<i>Superconducting Quantum Interference Devices based on InSb Nanoflag Josephson Junctions</i> Stefan Heun (Istituto Nanoscienze-CNR and Scuola Normale Superiore, Pisa, ITALY)	<i>Ferrocene-based Molecular Logic Gates based on Photoinduced Electron Transfer</i> David C. Magri (University of Malta, Msida, MALTA)
10:15			<i>Bridging photolithography and DNA origami for nanofabrication of molecular computers</i> Prokop Hapala (FZU - Institute of Physics of the Czech Academy of Sciences, Prague, CZECHIA)
10:30		<i>Beyond-classical computation in quantum simulation</i> Marek M. Rams (Jagiellonian University, Krakow, POLAND)	<i>Bridging Organic - Inorganic Complexity through DFT Approaches</i> Sylvia Jadwiga Kozdra (Łukasiewicz Research Network - Institute of Microelectronics and Photonics, Warsaw, POLAND)
10:45		<i>Signatures of a gate-controlled superconducting diode effect in LAO/STO 2DEG</i> Andrii Naumov (AGH University of Krakow, Krakow, POLAND)	<i>Bandgap engineering on the Cyanothiazole complexes</i> Ramesh Sivasamy (AGH University of Krakow, Krakow, POLAND)
11:00		Coffee Break (11:00-11:30)	Coffee Break (11:00-11:30)
11:15			
11:30		SESSION 4: Quantum / Neuromorphic Computing <i>Chair: Artur Bednarkiewicz</i>	SESSION 8: Reservoir Computing <i>Chair: Dimitra Georgiadou</i>
		<i>Feature Maps in Quantum Neural Networks for Causal Inference</i> Silvie Illéssová (IT4Innovations, Ostrava, CZECHIA)	<i>Amoeba-inspired computing on analog electronic circuit</i> Seiya Kasai (Hokkaido University, Sapporo, JAPAN)
11:45		<i>SpinGlassPEPS: Tensor-network package for Ising-like optimization on quasi-two-dimensional graphs</i> Tomasz Śmierzchalski (Polish Academy of Sciences, Gliwice, POLAND)	
12:00		<i>Exploiting the dynamical properties of memristors for efficient information processing</i> András Ernő Halbritter (Budapest University of Technology and Economics, Budapest, HUNGARY)	<i>Reservoir computing with nanomagnets and magnetic nanowire</i> Hikaru Nomura (Tohoku University, Sendai, JAPAN)
12:15			
12:30		<i>Materials and Optoelectronic Devices for Neuromorphic Computing</i> Dimitra Georgiadou (University of Southampton, Southampton, UK)	<i>Reservoir computing with photon avalanching luminescent inorganic materials</i> Artur Bednarkiewicz (Polish Academy of Sciences, Wrocław, POLAND)
12:45			<i>Analysis of Surface EMG Signals Based on Reservoir Computing Framework for Inferring Intended Motion</i> Yusuke Hoshika (Hokkaido University, Sapporo, JAPAN)
13:00		Lunch (13:00-14:30)	<i>Bismuth(III)-Based Memristive Materials for Neuromorphic Computing</i> Gisya Abdi (AGH University of Krakow, Krakow, POLAND)
13:15			<i>Neuromorphic Physical computation using molecular networks</i> Takuya Matsumoto (University of Osaka, Osaka, JAPAN)
13:30			Closing
13:45			
14:00	Opening		

14:15	SESSION 1: Spintronics/Orbitronics <i>Chair: Hikaru Nomura</i>	
14:30	<i>Reconfigurable Logic-in-Memory Based on Magnon Torque</i> Tianxiang Nan (Tsinghua University, Beijing, CHINA)	SESSION 5: Neuromorphic Computing <i>Chair: Prokop Hapala</i>
14:45	<i>Hybrid structure based on soft ferromagnetic film and multilayer nanodots as a platform for spin wave computing</i> Maciej Krawczyk (Adam Mickiewicz University, Poznan, POLAND)	<i>Physical AI: challenges and opportunities</i> Zoran Konkoli (Chalmers University of Technology, Gothenburg, SWEDEN)
15:00		<i>Tackling Reliability and Scalability in Neuromorphic Computing via Noise-aware Learning</i> Eleni Vasilaki (University of Sheffield, Sheffield, UK)
15:15	<i>Spin-Orbit Computing Devices</i> Safeer Chenattukuzhiyil (University of Oxford, Oxford, UK)	<i>Energy consumption problems of modern digital ANNs and a possible memristive SNN solution</i> Max Talanov (University of Messina, Messina, ITALY)
15:30		<i>Applying neurodynamic behavior of Mott memristors for auditory sensing</i> Timea Nőra Török (Budapest University of Technology and Economics, Budapest, HUNGARY)
15:45	Coffee Break (15:45-16:15)	
16:00		
16:15	SESSION 2: Spintronics/Orbitronics <i>Chair: Safeer Chenattukuzhiyil</i>	Coffee Break (16:00-16:30)
	<i>Interlayer Dzyaloshinskii–Moriya interactions in epitaxial Co/Ir/Co/Pt multilayers</i> Anna Koziół-Rachwał (AGH University of Krakow, Krakow, POLAND)	
16:30	<i>Modification of topological magnon gap in CrI3 monolayer</i> Paweł Sobieszczyk (Polish Academy of Sciences, Krakow, POLAND)	SESSION 6: Neuromorphic Computing <i>Chair: David C. Magri</i>
		<i>Reconfigurable Magnonic-Spintronic Device Architecture Based on Domain Wall Control</i> Uładzislau Makartsou (Adam Mickiewicz University, Poznan, POLAND)
16:45	<i>Multiferroic Perovskite Heterostructures for Data Storage Applications</i> Jakub Pawlak (AGH University of Krakow, Krakow, POLAND)	<i>Thin Films, Thick Ideas: BiVO₄ as a Material for the Computing of Tomorrow</i> Dominik Adam Caus (AGH University of Krakow, Krakow, POLAND)
17:00	<i>Properties of L11 CuPt/CoPt deposited on Si and STO substrates</i> Piotr Jabłoński (AGH University of Krakow, Krakow, POLAND)	<i>Two-dimensional MoO3 for memristive applications – a nanoscale study</i> Aleksandra Nadołska (University of Lodz, Lodz, POLAND)
17:15	<i>Synchronization and desynchronization of electrically coupled spin torque connected in series</i> Jakub Mojsiejuk (AGH University of Krakow, Krakow, POLAND)	<i>Neural Information Processing by a Dynamical Memristor Circuit</i> Dániel Molnár (Budapest University of Technology and Economics, Budapest, HUNGARY)
17:30		<i>Demonstration of Compact Reconfigurable SAT Problem Mapping Circuit for an Analog Electronic Amoeba</i> Tokushi Maruoka (Hokkaido University, Sapporo, JAPAN)
17:45		
18:00		
18:15		
18:30	Poster Session / Welcome Party (18:00-20:00)	
18:45		
19:00	ACMiN Lobby Kawiry St. 30	
19:15		
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19:45		
20:00		Conference Dinner (19:00-21:30)
20:15		C.K. Browar Podwale St. 7
20:30		
20:45		
21:00		
21:15		
21:30		