

Technical Program

Sunday, 20 September 2026	
15:00 - 19:00	Registration
15:30 - 16:30	Tutorial 1 Design Methodologies and Tools for Single Flux Quantum Circuits <i>G. Krylov, MQI GmbH</i>
16:30 - 17:00	Coffee Break
17:00 - 17:30	Tutorial 2 Beyond the Hero Device: A Practical Design Workflow for Superconducting Analog Microwave Electronics <i>Ch. Kissling, PTB Braunschweig</i>
17:30 - 18:00	Tutorial 3 An Introduction to Neuromorphic Computing with Single Photons and Superconducting Electronics <i>M. Protte, Paderborn University</i>
18:00 - 18:30	Tutorial 4 A Toolchain for Superconducting Quantum Circuits <i>J. Hogan, GDS Factory</i>
19:00 - 20:30	Dinner
20:30 - open end	Get together
Monday, 21 September 2026	
09:00 - 09:15	Opening Welcome <i>Hannes Töpfer, TU Ilmenau</i>
09:15 - 10:15	Session 1: Technology – Chair: J. Beyer Low Damage etching for fabrication of superconducting Aluminium devices <i>S. Mechold, Leibniz IPHT Jena</i> Towards the next generation of general-purpose dc SQUID sensors <i>M. Esattore, PTB Braunschweig</i>
10:15 - 10:45	Coffee Break
10:45 - 12:30	Session 2: Detectors – Chair: S. Kempf Towards a next-generation neutrino-mass experimenting using magnetic microcalorimeters <i>M. Müller, KIT Karlsruhe</i> Superconducting Nanowire Single-Photon Detectors from the UV to the Mid-Infrared <i>B. Hampel, PTB Braunschweig</i> Large-area Microcalorimeter (LAMCAL) Prototype for the Direct Search Experiment for Light Dark Matter (DELIGHT) with Superfluid Helium <i>L. Hauswald, KIT Karlsruhe</i> High resolution measurement of the ^{65}Zn spectrum with magnetic microcalorimeters <i>M. Paulsen, PTB Berlin</i>
12:30 - 14:00	Lunch
14:00 - 14:50	Session 3: Cooling – Chair: T. Ortlepp Double-Stirling operation of two different GM-cold heads on a single linear compressor <i>J. Höhne, Pressure Wave Systems GmbH</i> Low-Noise Closed Cycle Cryostat for Constant Current Comparator driven by Pulse Tube Cryocooler <i>J. Schmidt, TransMIT</i>
14:50 - 15:15	Coffee Break
15:15 - 16:30	Session 4: Emerging Devices – Chair: M. Schilling Spin-wave generation by fast moving fluxons <i>O. Dobrovolskiy, TU Braunschweig</i> Superconducting 3D nanostructures for cryogenic electronics <i>I. Bogush, TU Braunschweig</i> Emergent edge-dominated supercurrents in Josephson junctions with Al/Ni multilayer barriers <i>M. Belogolovskii, University Bratislava</i>
16:30 - 19:00	Poster Session / Coffee Break
19:00 - 20:30	Dinner / Program Committee Meeting
20:30 - open end	Get together
Tuesday, 22 September 2026	
09:00 - 10:15	Session 5: Electronics / Metrology – Chair: O. Dobrovolskiy Superconducting circuit design guidelines for single flux quantum logic <i>T. Ortlepp, CiS Erfurt</i> Towards 1 V Pulse-Driven AC Josephson Voltage Standard <i>O. Mousa, PTB Braunschweig</i> Neuromorphic Superconducting Microelectronic Circuits for Signal Processing Applications <i>L. Endres, TU Ilmenau</i>
10:15 - 11:00	Coffee Break
11:00 - 12:45	Session 6: SQUIDs and Sensor Systems – Chair: R. Stolz Commissioning SALER: Online Radioactive-Ion Implementation into Superconducting Tunnel Junctions <i>G. Driss, LPC Caen, France</i> Reactive damping of Josephson junctions in dc-SQUIDs <i>J. Beyer, PTB Berlin</i> Mutual-Inductance Sensors for Microcalorimetry <i>C. Schuster, PTB Braunschweig</i> Automated Detection and Correction of SQUID Operating-Point Losses in a Cryogenic Current Comparator <i>S. Kolbe, Ernst-Abbe-Hochschule Jena</i>
12:45 - 12:50	Closing Closing Remarks <i>Hannes Töpfer, TU Ilmenau</i>
12:50 - 14:00	Lunch
14:00 - ...	End / Excursion to TU Ilmenau