



POSTER SESSION OVERVIEW

First session on day 3 (Wednesday, October 18)

| Day | Poster # | Presenting | Title |
|--------|----------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 18.10. | 1 | M. R. Mahani | Machine learning based inverse design of semiconductor laser components using low-data-demanding algorithms |
| 18.10. | 2 | Yasmin Rahimof | 2D and 3D FDTD Simulations of Bragg gratings in GaAs-based Ridge Waveguides |
| 18.10. | 3 | Kerstin Borrás | Quantum Machine Learning - Status and Prospects |
| 18.10. | 4 | Irina Heinz | Residual exchange interaction in linear spin qubit arrays |
| 18.10. | 5 | Regina Finsterhoelzl | High-Fidelity Entangling Gates for a Register based on a Nitrogen-Vacancy Center in Diamond |
| 18.10. | 6 | Gregor Pieplow | Generating entangled photonic resource states with color centers in diamond |
| 18.10. | 7 | Dirk Oliver Theis | Parameter derivatives for Rydberg atom arrays |
| 18.10. | 8 | Teresa Meiners | X-junction design and simulation of ion transport for implementation in the QCCD architecture |
| 18.10. | 9 | Cem Güney Torun | Zero-Magnetic Field Quantum Control and Coherence Measurements of a Tin-Vacancy Color Center in a Diamond Nanopillar as a Spin-Photon Interface |
| 18.10. | 10 | Pere Mujal | Time-series quantum reservoir computing with weak and projective measurements |
| 18.10. | 11 | Tummas Napoleon Arge | Squeezed light source on lithium niobate on insulator without periodic poling for photonic quantum computing |
| 18.10. | 12 | Dimitris Syvridis | Classification of data with a qudit, a geometric approach |

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| Day | Poster # | Presenting | Title |
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| 18.10. | 13 | Wael Yahyaoui | EQUALITY - Efficient 'QUAntum ALgorithms for IndusTrY |
| 18.10. | 14 | Gloria Turati | A Benchmark Study of Adaptative Variational Quantum Algorithms on QUBO Instances |
| 18.10. | 15 | Marco De Michielis | Simulation of Gate Fidelities in Small Arrays of Flip-flop Qubits in a Noisy Environment |
| 18.10. | 15b | Pablo Andres-Martinez | Distributing circuits over heterogeneous, modular quantum computing network architectures |
| 18.10. | 16 | Davide Ferrari | A Modular Quantum Compilation Framework for Distributed Quantum Computing |
| 18.10. | 17 | Mikael Lassen | Quantum frequency conversion a tool for bridging different wavelengths and hybrid systems |
| 18.10. | 18 | Stefano Carrazza | An Open-Source Hybrid Quantum Operating System |
| 18.10. | 19 | Samuele Grandi | Transmission of light-matter entanglement over a metropolitan network |
| 18.10. | 20 | Raja Yehia | Quantum City: simulation of a practical near-term metropolitan quantum network |
| 18.10. | 21 | Sandor Imre | Analysis of Entanglement-based Quantum WiFi Competition Resolution in Real Life Scenarios |
| 18.10. | 22 | Martin Achleitner | Demonstration of GHz Sequential Time-bin Entanglement in a Metropolitan Fiber Network |
| 18.10. | 23 | Dimitris Syvridis | PHYSICAL LAYER SECURITY USING QKD HIGH RATE KEYS |
| 18.10. | 24 | Jingzhong Yang | High-rate intercity quantum key distribution with semiconductor single photon source based on 'Niedersachsen quantum link' |
| 18.10. | 25 | Marcello Caleffi | Entanglement-based networks: towards a connection-oriented design? |
| 18.10. | 26 | Valerio Pruneri | Developing Quantum Communication Secure Networks through QSNP |
| 18.10. | 27 | Sören Wengerowsky | Efficient cavity-assisted storage of photonic qubits in a solid-state quantum memory |
| 18.10. | 28 | George T. Kanellos | Sustained QKD link over a multiple ONT loaded carrier-grade GPON for FTTH applications. |
| 18.10. | 29 | George T. Kanellos | Optimal Configuration for Key Management in Dynamically Switched QKD Networks |
| 18.10. | 30 | Máté Galambos | Trusted nets: how to combine trusted nodes to enhance privacy |

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| 18.10. | 31 | Argiris Ntanos | Demonstrating Single Photon Exchange over Rooftop-to-Rooftop Links and Evaluating Performance in Real-World Scenarios |
| 18.10. | 32 | Tobias Gehring | QCI.DK: Danish Quantum Communication Infrastructure |
| 18.10. | 33 | Marcello Caleffi | The Quantum Internet: Quest for a Paradigm Shift |
| 18.10. | 34 | Sascha Neinert | Development of a Micro-Integrated Optically Pumped Magnetometer for Magnetomyography in Space |
| 18.10. | 35 | William Evans | Optically pumped magnetometer arrays for electric vehicle battery characterization. |
| 18.10. | 36 | Peter James Hobson | Magnetic field shaping for quantum sensors |
| 18.10. | 37 | Marcel Martin | Nanoscale Nuclear Magnetic Resonance with NV centers in diamond |
| 18.10. | 38 | Michał Parniak | Quantum sensing and transduction using hot Rydberg atoms |
| 18.10. | 39 | Julian M. Bopp | Magnetic field camera based on infrared absorption ODMR mediated by diamond NV centers |
| 18.10. | 40 | Claudia Stella | NV-based Quantum nano-sensor Reveal Temperature Variation Associated to Hippocampal Neurons Firing |
| 18.10. | 41 | Gabriele Zanelli | Sensitivity Enhancement of Nitrogen-Vacancy based temperature sensor via Quantum Superposition |
| 18.10. | 42 | Nimba Oshnik | Study of quantum sensors in laterally overgrown hole arrays in diamond |
| 18.10. | 43 | Feng Xu | The development of quantum diamond microscopy for precise quantification of cellular forces |
| 18.10. | 44 | Victor Jose Martinez Lahuerta | Artificial Intelligence for Quantum Sensing |
| 18.10. | 45 | Mattias Kruskopf | Graphene-Based Quantum Hall Devices for Resistance Metrology |
| 18.10. | 46 | Mattias Kruskopf | Quantum Anomalous Hall Effect Devices in zero external magnetic field for Resistance Metrology |
| 18.10. | 47 | Sara Pourjamal | Wafer-scale method for amorphizing superconducting MoSi thin films for SNSPDs |
| 18.10. | 48 | Mikhail Belogolovskii | Chiral Andreev edge states in Josephson junctions with an (NF)10N multilayered weak link |
| 18.10. | 49 | Thomas Gerster | Optimized Single-Electron Pumps for a Quantum Current Standard |
| 18.10. | 50 | Marjan Schubert | Superconducting radiofrequency resonator for ion traps |

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| Day | Poster # | Presenting | Title |
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| 18.10. | 51 | Lukas Kilzer | Scalable cryogenic trapped-ion quantum computing experiment design |
| 18.10. | 52 | Andreas Reutter | New Photon Scanning Tunnelling Microscope for investigation of electroluminescence of single photon emitters |
| 18.10. | 53 | Vaidik Avnish Sharma | Techniques to Variational Quantum Metrology using Optimized Parameter Estimation |
| 18.10. | 54 | Sascha de Wall | Microtechnological Manufacturing Methods of Reflective Optical Gratings for Functional Enhancement in Atom Chips |
| 18.10. | 55 | Jan Kiethe | An experimentation platform towards standardized characterization of ion traps for industry and research |
| 18.10. | 56 | Nila Krishnakumar | Hybrid Integration and Microfabrication Technology for Scalable Ion Trap Quantum Computer |
| 18.10. | 57 | Conrad Zimmermann | Miniaturized crossed beam optical dipole trap and enabling technologies for compact atom-based quantum sensors |
| 18.10. | 58 | Vikas Remesh | Compact Chirped Fiber Bragg Gratings at 800 nm for Robust Single-Photon Generation from Quantum Dots |
| 18.10. | 59 | Janpeter Hirsch | Bragg Grating Based Frequency Reference Module for Operation in Quantum Technology Applications |
| 18.10. | 60 | Christian Flasch | Industrially microfabricated ion traps for quantum information processing and metrology |
| 18.10. | 61 | Thomas Hummel | Cryogenic electronics for integrated SNSPDs |
| 18.10. | 62 | Frederik Thiele | All-optical operation of a superconducting opto-electronic circuit |
| 18.10. | 63 | Alejandro Sánchez-Postigo | Superconducting nanowire single-photon detectors integrated in sub-wavelength grating metamaterial waveguides |
| 18.10. | 64 | Jan Markus Baumann | Trade-off design considerations for laser systems for high-end quantum sensor applications |
| 18.10. | 65 | Shradhanjali Sahu | Satellite-Based Continuous Variable Quantum Key Distribution in Multiple-Input Multiple-Output Settings |
| 18.10. | 66 | Thomas Hebdige | An assessment process for quantum random number generators |
| 18.10. | 67 | Maria Ana de Matos Afonso Pereira | A Fast QKD Prototype Based on Photonic Integrated Circuits |
| 18.10. | 68 | Tommaso Pregonato | Fabrication of suspended "sawfish" photonic crystal cavities in diamond |

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| Day | Poster # | Presenting | Title |
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| 18.10. | 69 | Domenico Zito | IQubits: An all-in-one integrated qubit platform in commercial ultra-scaled Silicon foundry technologies for scalable monolithic quantum processors |
| 18.10. | 70 | Sebastian Nagies | Native 3-body interactions for quantum annealing with trapped ions |
| 18.10. | 71 | Boyang Chen | Combinatorial structural optimization using quantum annealing - feasibility and challenges |
| 18.10. | 72 | Sara El Gaily | Constrained Quantum Genetic Algorithm for Maximizing Energy Efficiency in Downlink Massive MIMO Network for 5G Applications |
| 18.10. | 73 | Jan-Niclas Siemß Kirsten- | Intuitive and Versatile Software for Real-world Quantum Sensors |
| 18.10. | 74 | George Gesek | A Uniform Quantum Computing Model Based on Virtual Quantum Processors |
| 18.10. | 75 | Nicola Franco | Efficient Mixed-Integer Linear Programming Decomposition Methods for Quantum Computing |
| 18.10. | 76 | Christoph Kuenzler | Micro technological fabrication of low outgassing atom chips for the use in UHV environment |
| 18.10. | 77 | Alister Davis | Bespoke field environments for quantum commercialisation |
| 18.10. | 78 | Klaara Viisanen | Scalable solid state coolers for quantum technologies |
| 18.10. | 79 | Stefan Rolf Huebner | What sets the most valuable patents in quantum computing apart from the rest? |
| 18.10. | 80 | Shaeema Zaman | Empowering Quantum Technology Ecosystem with Transversal Skills |
| 18.10. | 81 | Zeki Can Seskir | Democratization of Quantum Technologies |
| 18.10. | 82 | Marina Natalucci | "Driving Quantum Innovation in Italy: Fostering a Precompetitive Ecosystem" - The role of the Quantum Computing & Communication Observatory of the Politecnico di Milano |
| 18.10. | 83 | Benedikt Poggel | On Finding Good Quantum-Enhanced Solution Paths for Optimization Problems |
| 18.10. | 84 | Manfred Rieck | Quantum computing at Deutsche Bahn - tradition meets deep tech - how-to convince industry of new technologies |
| 18.10. | 85 | Rutger Ockhorst | Introducing quantum physics in secondary school through lesson materials on quantum technology |
| 18.10. | 86 | Daniel Stuhlmacher | Virtual user platform as a low-threshold, time- and location-independent quantum technology training format |

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| Day | Poster # | Presenting | Title |
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| 18.10. | 87 | Angelo Compierchio | A Qbit program for Ecosystem Applications |
| 18.10. | 88 | Franziska Greinert | Presenting the European Competence Framework for Quantum Technologies - Version 2.0 |
| 18.10. | 89 | Silvia Marigonda | Developing European quantum ecosystems for the Euro-Quantum Communications Infrastructure |
| 18.10. | 90 | Jose Luis Rosales | Quantum Leap: Empowering Entrepreneurship and Training in Spain's Quantum Community at the Technical University of Madrid |



POSTER SESSION OVERVIEW

Second session on day 4 (Thursday, October 19)

| Day | Poster # | Presenting | Title |
|--------|----------|---------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 19.10. | 1 | Mykhailo Moskalets | Charge- and Spin- Dipole Excitations Produced on-Demand in the Fermi Sea |
| 19.10. | 2 | Felix Mauerhoff | Edge emitting semiconductor laser emitting at 626 nm and 619 nm for usage in quantum information processing |
| 19.10. | 3 | Christian Deppner | BECCAL - The Bose-Einstein Condensate and Cold Atom Laboratory |
| 19.10. | 4 | Hector SIMON | Iterative Schrödinger cat states generation scheme using a quantum memory cavity. |
| 19.10. | 5 | Emanuele Polino | Activating quantum nonlocality from Bell local states |
| 19.10. | 6 | Alexander Wilzewski | Precision Spectroscopy of highly charged ions with sub-Hz uncertainty |
| 19.10. | 7 | Jef Pauwels | Certifying long-range quantum correlations through routed Bell tests |
| 19.10. | 8 | LM Arévalo Aguilar | The single-photon steering and the quantum mechanical free-interaction measurement |
| 19.10. | 9 | Mher Ghulinyan | Monolithic integration of SiON photonic circuits with Si single-photon detectors for NIR-range and room-temperature operation |
| 19.10. | 10 | Samuele Grandi | Detection of Single Ions in a Nanoparticle Coupled to a Fiber Cavity |
| 19.10. | 11 | Andreas Schell | Spectroscopy of Single Photon Emitters for Quantum Technology |
| 19.10. | 12 | Emma Vandrey | Imaging and laser systems for surface-electrode ion trap experiments |
| 19.10. | 13 | Riccardo Pellini | Assessing how the structure of the QUBO problem affects the effectiveness of quantum annealing |

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| Day | Poster # | Presenting | Title |
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| 19.10. | 14 | Lauritz Keinert | Modification of glass by a laser for the use in micro-electric systems and quantum devices |
| 19.10. | 15 | Elena Zhitlukhina | Size and dimensionality effects in superconducting NbN thin films |
| 19.10. | 16 | Kerstin Borrás | Precise Quantum Angle Generator Designed for Noisy Quantum Devices |
| 19.10. | 17 | Riccardo Nembrini | Quantum Annealing-Assisted Bipartite Community Detection for Recommender Systems |
| 19.10. | 18 | Sebastian Egginger | Optimizing hyperparameters using the geometric difference |
| 19.10. | 19 | Vladyslav Los | Robustness of quantum algorithms against approximate data representations |
| 19.10. | 20 | Aleksandra Buchta | Field emission current-voltage characteristics of field emitters fabricated by wafer dicing. |
| 19.10. | 21 | Esther Villar-Rodriguez | ON THE QUANTUM-CLASSICAL SOLVERS: HYBRID OR IMBRICATED? |
| 19.10. | 22 | Cornelis C. Bultink | Advanced quantum computing and quantum error correction with a scalable, distributed quantum control stack |
| 19.10. | 23 | Younes Javanmard | Tensor-Network Assisted Quantum Algorithms for Quantum Simulations |
| 19.10. | 24 | Daniel Borcharding | Real-time hybrid quantum-classical computations for trapped ions with Python control-flow |
| 19.10. | 25 | David Kreplin | Reduction of finite sampling noise in quantum neural networks |
| 19.10. | 26 | Pascal Halfmann | Quantum Computing for Multiobjective Optimization Problem: A First Approach |
| 19.10. | 27 | Vaidik Avnish Sharma | Time Series Prediction using Quantum Neural Network and Deep Learning Algorithms |
| 19.10. | 28 | Diego Andrade | The NEASQC Benchmark Suite: Benchmarking Quantum Computers Across NExt ApplicationS of Quantum Computing |
| 19.10. | 29 | Pablo Díez-Valle | Multiobjective variational quantum optimization for constrained problems |
| 19.10. | 30 | Alvaro Arco | High Accuracy Time Synchronization for Quantum Networking. White Rabbit / IEEE 1588 (PTP) High Accuracy Profile |
| 19.10. | 31 | Jaspar Meister | Dynamical Simulation of Quantum Repeater Satellite Constellations |
| 19.10. | 32 | Daniel Muñoz | Accurate metrology to evaluate the security of QKD modules |

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| Day | Poster # | Presenting | Title |
|--------|----------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19.10. | 33 | Francisco Javier Cruz Hernández | Quantum Spread Spectrum for Tactical Communications |
| 19.10. | 34 | Noel Farrugia | Quantum-secured communication systems for all: Mercury Cybersecurity and a case study from Malta. |
| 19.10. | 35 | Tobias Gehring | Continuous-Variable Quantum Key Distribution at 10 GHz using an Integrated Photonic-Electronic Receiver |
| 19.10. | 36 | Carsten Schuck | Photonic integrated quantum communication receivers with superconducting nanowire detectors. |
| 19.10. | 37 | Timon Schapeler | Mega-Scale Quantum Detector Tomography using High-Performance Computing |
| 19.10. | 38 | Alberto Rodríguez-Moldes Sebastián | Dynamical decoupling techniques for long-lived single-photon level storage in Pr-based quantum memories |
| 19.10. | 39 | Giuseppe Vallone | Recent advances in free-space and fiber quantum key distribution |
| 19.10. | 40 | Kabilan Sripathy | Satellite-based quantum communication and extended physical theory tests in space |
| 19.10. | 41 | Martin Jutisz | A portable warm vapour quantum memory |
| 19.10. | 41b | Francis Marcellino | Heralded distribution of polarization-entangled photon pairs |
| 19.10. | 42 | Jonathan Hänni | Towards functional quantum repeater links using rare-earth doped crystals |
| 19.10. | 43 | Petra Scudo | Optimal measurements in QKD with non-orthogonal states |
| 19.10. | 44 | Samuele Grandi | Long-distance multiplexed quantum teleportation from a telecom photon to a solid-state qubit |
| 19.10. | 45 | Botond László Márton | Testing the integration of a Continuous Variable Quantum Key Distribution System |
| 19.10. | 46 | Huy Q. Nguyen | Squeezing recovery by phase compensation in free-running detection of squeezed light |
| 19.10. | 47 | Nina Amelie Lange | Cryogenic Degenerate Spontaneous Parametric Down-Conversion |
| 19.10. | 48 | Deepesh Singh | Proof-of-work consensus by quantum sampling |
| 19.10. | 49 | Mehrzad Firoozi | Stochastic Analysis of a Simple Interferometric Detection of Phase Diffusion in a Laser Diode for Quantum Random Number Generation |
| 19.10. | 50 | Segolene OLIVIER | Waveguide-integrated superconducting nanowire single photon detectors on a 200 mm silicon photonics platform for quantum communications and computing |

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| 19.10. | 51 | Justus Christinck | Radiometric application of a single-photon source based on a germanium-vacancy center in diamond |
| 19.10. | 52 | Sten Wenzel | Monolithic Integration of Extended Cavity Diode Lasers at 778 nm and 1064 nm |
| 19.10. | 53 | Johannes Dickmann | Advancing Microstructured Mirrors for Next-Generation Ultrastable Lasers |
| 19.10. | 54 | Steffen Sauer | On-chip integrated photonics for high-performance quantum computing, atomic clocks and quantum sensing applications |
| 19.10. | 55 | Saskia Bondza | Quantum Technologies for Optical Coherence Tomography |
| 19.10. | 56 | Christoph Tyborski | Micro-integrated Diode Laser Modules for Operation in Quantum Technology Applications |
| 19.10. | 57 | Wiktor Krasnicki | Resolving spectrally separated pulses beyond the Fourier limit using heterodyne detection |
| 19.10. | 58 | Axel Schönbeck | Sensing beyond the shot-noise limit with Squeeze Lasers |
| 19.10. | 59 | Muhammad Talal Ali Khan | Grating-based waveguides for quantum applications |
| 19.10. | 60 | Mandip Singh | Quantum ghost imaging of transparent phase patterns with hyper-entangled photons |
| 19.10. | 61 | Alain Lioret | Quantum Computing for Generative Art & Design |
| 19.10. | 62 | Marco Bonkowski | The QuMIC project - Towards a scalable ion trap with integrated high-frequency control |
| 19.10. | 63 | Nicolás Pulido-Mateo | Calculating an error budget for an ion-trap based quantum processor |
| 19.10. | 64 | Ihar Babushkin | Manipulation of photons with refractive index steps flying with a speed of light for novel ultrafast photon processing |
| 19.10. | 65 | Joseph Cannon | Polarisation study of single colour centres in aluminium nitride |
| 19.10. | 66 | Alexey Kupriyanov | Performance evaluation of novel accelerometers for future gravimetry missions |
| 19.10. | 67 | Christoph Tyborski | Extensive study of magneto-optical and optical properties of Cd _{1-x} MnxTe between 675 nm and 1025 nm |
| 19.10. | 68 | Ashwin Rajagopalan | High performance vibrational noise mitigation for atom interferometry with an accelerometer integrated reference mirror |
| 19.10. | 69 | Hendrik Heine | Towards a high-flux single-beam BEC source for Quantum Technologies |

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| Day | Poster # | Presenting | Title |
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| 19.10. | 70 | Naceur Gaaloul for the CARIOQA-PMP consortium | CARIOQA-PMP: A Space Gravimetry Quantum Pathfinder Mission |
| 19.10. | 71 | Mouine Abidi | Quantum inertial accelerometer for mobile application |
| 19.10. | 72 | Alexander Herbst | Applications of tunable interactions and time-averaged potentials in atom interferometry sources |
| 19.10. | 73 | Ali Lezeik | Gravimetry with the Very Long Baseline Atom Interferometry Facility |
| 19.10. | 74 | Benjamin Tennstedt | Chances and Challenges of Quantum Inertial Navigation Systems |
| 19.10. | 75 | Joseph Muchovo | Two-dimensional grating magneto-optical trap |
| 19.10. | 76 | Dorthe Leopoldt | QUANTUS-2: Atom interferometry in microgravity |
| 19.10. | 77 | Christian Struckmann | Quantum Sensors in Space for Fundamental Physics and Applications |
| 19.10. | 78 | Daniel Emanuel Kohl | Towards a Spaceborne Two-Photon Rubidium Frequency Reference |
| 19.10. | 79 | Waldemar Herr | AeroQGrav - Absolute airborne gravimetry using quantum sensors |
| 19.10. | 80 | Vishu Gupta | Gravimetry with Very Long Baseline Atom Interferometer |
| 19.10. | 81 | Ann Sabu | Multi-axis quantum gyroscope with multi-loop atomic Sagnac interferometry |
| 19.10. | 82 | Matthias Gersemann | Experimental platform for multi-axis quantum inertial sensing |
| 19.10. | 83 | Knut Stolzenberg | Inertial sensing utilising painted optical potentials |
| 19.10. | 84 | Mikhail Cheredinov | Advanced methods for atom interferometry with ultracold atoms. |
| 19.10. | 85 | Kilian Stahl | Measurement of the frequency ratio between neutral ^{87}Sr and $^{115}\text{In}^+$ at the 10-18 level |
| 19.10. | 86 | Maximilian J. Zawierucha | Towards high precision quantum logic spectroscopy of single molecular ions |
| 19.10. | 87 | Chetan Vishwakarma | The upgraded transportable optical lattice clock at PTB |
| 19.10. | 88 | Elena Jordan | PIC-based clocks as quantum sensors |
| 19.10. | 89 | Gabriel Müller | Optical and Magnetic Simulations for Quantum Sensors in Space |
| 19.10. | 90 | Nilakantha Meher | Sensing of nonlinear quantum noise correlations |
| 19.10. | 91 | Sören Dörscher | Reduction of the blackbody radiation and lattice light shift uncertainty of strontium lattice clocks |

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| 19.10. | 92 | Moritz von Boehn | Towards (anti-)proton g-factor measurements using quantum logic spectroscopy |
| 19.10. | 93 | Dongliang Cong | A transportable accurate optical lattice clock for geodesy and fundamental physics studies |