



QuantumFrontiers-Days 2024

at the Maritim Airport Hotel Hannover
Hannover Airport

May 27th and 28th, 2024



Start QF Day 1

Time	Title	Name
09:00	Welcome coffee	
09:25	Welcome by the Speakers	Speaker-Team
09:55	<i>Guest Speaker: The aluminium oxide photonic integrated platform to enable quantum applications</i>	Sonia Garcia Blanco
10:35	<i>Quantum reasoning tools</i>	Rainer Müller
10:50	Coffee break	
11:30	<i>1st Prize of the ZARM Award for "Fabrication and characterisation of NEG functionalised glass mems for the generation of UHV conditions in miniaturised atom interferometers"</i>	Leonard Diekmann
11:45	<i>New approaches to high precision hybrid integration for ion traps</i>	Florian Meierhofer
12:00	<i>Resonant light-matter coupling to chiral nematic phase of liquid crystals</i>	Silvia Müllner
12:15	<i>Squeezed Light for Gravitational Wave Detectors</i>	Henning Vahlbruch
12:30	Lunch + picture	
13:30	Poster Session "Exploring Light and Matter" + Coffee & Dessert	
16:00	<i>Integrated light for distributed sensing and metrology</i>	Daniel Prades
16:30	<i>Laser technologies for modern nanophotonics</i>	Boris Chichkov
16:45	<i>Dark energy search using atom interferometry in the Einstein-Elevator</i>	Magdalena Misslisch
17:00	<i>Science Outreach at ZARM</i>	Dennis Philipp/Christian Pfeifer
17:15	<i>QuantumVR – Virtual Reality Escape Room Game on Quantum Computing</i>	Tobias Voss
17:30	Community Building Event and Poster Prize Award of Day 1	
18:30	Dinner	

Start QF Day 2

Time	Title	Name
08:30	Welcome coffee	
09:00	Welcome to Day 2	Speaker-Team
09:10	<i>Guest Speaker: Time-Reversal-Based Quantum Metrology</i>	Vladan Vuletic
09:50	<i>A (nearly) universal quantum logic approach: Far-detuned Raman interaction with titanium and molecular ions</i>	Fabian Wolf
10:05	<i>An avenue for controlling quantum-dominated interactions between ions and molecules</i>	Leon Karpa
10:20	<i>Point defect diffusion in GaInN/GaN quantum well structures</i>	Rodrigo de Vasconcellos Lourenço
10:35	<i>Improving microgravity quality for highly sensitive quantum experiments in the Einstein-Elevator</i>	Christoph Lotz
10:50	Coffee break	
11:30	Theater Session on Structural Discrimination	Shaeema Zaman, Science Melting Pot
13:00	Lunch	
14:00	Poster Session "At the Quantum Frontier" + Coffee & Dessert	
16:30	<i>Probing new bosons and nuclear effects via precise isotope shifts</i>	Elina Fuchs
16:45	<i>Sensing the Pulse of the Earth with Quantum Technology</i>	Matthias Weigelt
17:00	<i>Prospects for testing the gravitomagnetic clock effect</i>	Eva Hackmann
17:15	<i>Report on the Quantum Frontiers vibration isolation workshop 2023</i>	David Wu
17:30	Close and Poster Prize Award of Day 2	



QuantumFrontiers-Days 2024 - Poster Program

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Day (1,2). Poster Number (1-110)	Poster Title	Authors	Topical Group
Day 1 Poster Program			
1.01	QuantumFrontiers MasterClass Workshops in Hannover	Stina Scheer, Gunnar Friege	Education and Outreach
1.02	QuantumFrontiers MasterClass Workshops in Braunschweig	Azadeh Ghanbari, Tim Overwin, Rainer Müller	Education and Outreach
1.03	Diversity, Equity and Inclusion in QuantumFrontiers	J. Steenblock, Equal Opportunities Office LUH, Equal Opportunity and Diversity Office TUBS	Equal Opportunity and Diversity
1.04	QuantumFrontiers International Research School	Fumiko Kawazoe	Education and Outreach
1.07	Evaluation of learning materials for Quantum Technology Courses for the Industry (QTIndu)	Ismet N. Dogan, Dagmar Hilfert-Rüppell, Franziska Greinert, Malte S. Ubben, Rainer Müller	Education and Outreach
1.08	Bayesian Optimization for State Engineering of Quantum Gases	Gabriel Müller, Victor Martinez Lahuerta, Naceur Gaaloul	Cold Atoms in Space
1.09	Overview about the CARIOQA Pathfinder Mission	Gina Kleinsteinberg, Christian Struckmann, Naceur Gaaloul	Cold Atoms in Space
1.10	Generalized Josephson effect in an asymmetric double-well potential at finite temperatures	Kateryna Korshynska, Sebastian Ulbricht	Cold Atoms in Space
1.15	Software for Real-world Quantum Sensors	J.-N. Kirsten-Siemß, S. Seckmeyer, G. Müller, C. Struckmann, G. Kleinsteinberg, and N. Gaaloul	Cold Atoms in Space
1.16	Principal Component Analysis for Spatial Phase Reconstruction in Atom Interferometry	Stefan Seckmeyer, Holger Ahlers, Jan-Niclas Kirsten-Siemß, Matthias Gersemann, Ernst M. Rasel, Sven Abend, Naceur Gaaloul	Cold Atoms in Space and Optical Simulations
1.17	Artificial Intelligence for Atom interferometers	Victor Martinez Lahuerta, Jan-Niclas Kirsten-Siemß, Rui Li, Klemens Hammerer, Naceur Gaaloul	Cold Atoms in Space
1.18	TG QOSMIG: Progress, results and perspectives	Jonas Böhm, Christoph Lotz	Quantum optics and sensing in microgravity
1.23	Microgravity research in the Einstein-Elevator (TG QOSMIG)	Jonas Böhm, Christoph Lotz	Quantum optics and sensing in microgravity
1.24	Einstein-Elevator: Progress and results (TG QOSMIG)	Jonas Böhm, Christoph Lotz	Quantum optics and sensing in microgravity
1.25	Dark energy search and EEP test in μg : From sounding rockets to the Einstein Elevator	D. Leopoldt, S. Gill, P. Guggilam, M. Misslisch, J. Böhm, C. Garcion, C. Lotz, E. M. Rasel	Quantum optics and sensing in microgravity
1.26	Scaling of laser power for future GWDs using specialty fibers	E. Brockmüller, K. Kruska, S. Hochheim, F. Kranert, P. Weßels, J. Neumann, B. Willke and D. Kracht	Laser Development and Stabilisation for Next-Generation GWDs
1.31	Spherical aberration compensation of the thermal lens in Nd:YVO4 laser amplifiers	M. Schneewind, S. Spiekermann, P. Weßels, J. Neumann, B. Willke and D. Kracht	Laser Development and Stabilisation for Next-Generation GWDs
1.32	Specialized optical fiber components as an enabling technology	F. Kranert, E. Brockmüller, N. Haverland, J. Neumann and D. Kracht	Laser Development and Stabilisation for Next-Generation GWDs
1.33	Laser power stabilization via radiation pressure	G. Pascale, M. T. Nery, B. Willke	Laser development and stabilisation for next-generation GWDs
1.34	Light sources at 1550nm wavelength for the Einstein Telescope	F. Meylahn, N. Knust, A. Lebkuecher, G. Pascale, H. Vahlbruch, B. Willke	Laser development and stabilisation for next-generation GWDs and Non-classical light
1.39	Room-temperature photoinduced effects in elasticity and mechanical loss of GaAs for applications in high-precision optical metrology	Nico Wagner and Stefanie Kroker	Novel micro-optomechanical mirrors

1.40	Simulation of multistage 100 W fiber amplifiers at 2050 nm for next-gen GWD	S. Unland, P. Booker, P. Weßels, J. Neumann and D. Kracht	Optical Simulations, Laser Development and Stabilisation for Next-Generation GWDs
1.41	Evaluation tools for quantum inertial navigation systems	B. Tennstedt, N. Weddig, S. Schön	Quantum Navigation
1.42	Advanced methods for atom interferometry with ultracold atoms	Mikhail Cheredinov, Ekim T. Hanimeli, Simon Kanthak, Matthias Gersemann, Sven Abend, Ernst M. Rasel and the QUANTUS Team	Quantum Navigation
1.47	Two-axis quantum gyroscope for inertial sensing	Ann Sabu, Mouine Abidi, Philipp Barbey, Xingrun Chen, Ashwin Rajagopalan, Polina Shelingovskaia, Christian Schubert, Matthias Gersemann, Dennis Schlippert, Ernst M. Rasel, and Sven Abend	Quantum Navigation
1.48	Six-axis inertial quantum sensor for navigation	Xingrun Chen, Mouine Abidi, Philipp Barbey, Ashwin Rajagopalan, Ann Sabu, Matthias Gersemann, Ernst M. Rasel, and Sven Abend	Quantum Navigation
1.51	Co-transmission of quantum and coherent signals on a single frequency channel via the serrodyne technique	Philip Rübeling, Jan Heine, Robert Johanning, Michael Kues	Single photons
1.52	Frequency-bin-encoded Entanglement-based Quantum Key Distribution in a Reconfigurable Frequency-multiplexed Network	Anahita Khodadad Kashi, Michael Kues	Single photons
1.53	Optical Preservation of Defects in hBN	Pablo Tieben, Andreas W. Schell	Single photons
1.54	Optical pumping of isolated zinc phthalocyanine molecules in an alkane matrix using GaN-Based LEDs	G. Harm, U. Schlickum, T. Voss	Single photons
1.55	New matrix for single photon emitters: Structure and optical characterization of molecules embedded in C60	Franziska Hirt, Andreas Reutter, Yannis Hilgers, Ilja Gerhardt, Uta Schlickum, Stefan Kück	Single photons
1.56	Noise investigations in frequency combs and quantum-optical coherence tomography	Alexandria Anderson, Angelina Jaros, Erik Benkler, Uwe Sterr	Single photons
1.57	Circular photonic crystal grating design towards telecom C-band quantum light sources	Chenxi Ma, Jingzhong Yang, Pengji Li, Eddy Patrick Rugeramigabo, Michael Zopf, Fei Ding	Single photons
1.58	Hidden dynamics in single semiconductor quantum dots	Kai Hühn, Lena Klar, Arne Ludwig, Andreas Wieck, Jens Hübner, Michael Oestreich	Single photons
1.59	High-rate intercity quantum key distribution with a semiconductor single-photon source	Jingzhong Yang, Zenghui Jiang, Frederik Benthin, Joscha Hanel, Tom Fandrich, Raphael Joos, Stephanie Bauer, Sascha Kolatschek, Ali Hreibi, Eddy Patrick Rugeramigabo, Michael Jetter, Simone Luca Portalupi, Michael Zopf, Peter Michler, Stefan Kück, and Fei Ding	Single photons
1.60	On-chip integrated photonics for high-performance quantum computing, atomic clocks and sensing applications	S. Sauer, A. Sorokina, C.-F. Grimpe, G. Du, F. Salahshoor, J. Mattil, E. Jordan, D. Schlippert, T. Mehlstäubler, and S. Kroker	Structured illumination at the nanoscale and TrapFab
1.61	Propagation of vector beams in magnetized atomic media	Riaan Schmidt, Anton Peshkov, Sonja Franke-Arnold, Andrey Surzhykov	Twisted Light
1.62	Topical Group „Twisted Light“: Recent Highlights	Andrey Surzhykov (on behalf of TG)	Twisted Light
1.63	Inelastic scattering using chiral and helical photon fields (vortex light) on topological systems	D. Ukolov, F. Predelli, S. Müllner, P. Lemmens	Topological systems and Twisted Light
1.64	Electronic Properties of Differently Sized Films of Transition Chalcogenides	L. Thole, C. Belke, D. Höllmann, A. Ben Kalefa, S. Locmelis, L. Bockhorn, P. Behrens, R. J. Haug	Topological systems
1.65	Einstein's basement: New dynamics from a quasi particle interpretation of relativistic particles	Fritz Riehle und Sebastian Ulbricht	Tests of fundamental physics
1.66	Electrical transport properties of graphene with a fold	Bei Zheng, Xu Song, Lina Bockhorn and Rolf J. Haug	Topological systems
1.67	Photonic cross noise spectroscopy of Majorana bound states	Lena Bittermann, Fernando Dominguez, Patrik Recher	Topological systems
1.X	Chiral Majorana network in the BHZ model	Lena Bittermann, Patrik Recher, Fernando Dominguez	Topological systems
1.Y	Influence of the shell filling of a quantum dot in the Kondo Regime	O. Dani, J. C. Bayer, T. Wagner, G. Zwicknagl, R. J. Haug	Quantum electrical standards

1.68	Hybrid Integration of GaN-based MicroLED Arrays with Metal Nanowires	M. Vergin, G. Schöttler, S. Higgins-Wood, J. Hartmann, F. Meierhofer, A. Waag	Structured illumination at the nanoscale
1.69	GaN-based DFB laser diodes for Quantum Technology	J. Kassmann, E. Raffalt, F. Dencker, A. Fernández Scarioni, R. Miranti-Augustin, J. Hartmann, T. Weimann, M. Wurz, A. Waag	Structured illumination at the nanoscale
1.70	Impact of electron beam irradiation on the surface of a μ LED	S. Wolter, V. Agluschewitsch, S. Wolter, J. Hartmann, A. Waag	Structured illumination at the nanoscale and Electron microscopy
1.71	Towards low-loss Aluminium Nitride integrated photonics: chip design and fabrication	D. Tonni, A. Bisianov, E. Goscheva-Uka, J. Breitfelder, D. Park, J. Hartmann, R. Miranti-Augustin, T. Weimann, A. Waag	Structured illumination at the nanoscale
1.72	3D Patterning of Nanoporous Gallium Nitride by Ion-Implantation	M. Hoormann, F. Lüßmann, C. Margenfeld, K. Paz, C. Ronning, J. Kaßmann, A. Sorokina, J. Bej, F. Meierhofer, S. Kroker, A. Waag	Structured illumination at the nanoscale
1.73	Porous GaN mirrors for blue VCSEL lasers	F. Lüßmann, M. Hoormann, J. Hartmann, F. Meierhofer, A. Waag	Structured illumination at the nanoscale and Novel Micro-optomechanical mirrors
1.74	μ LED-based Neuromorphic Computing	R. Kraneis, M. Müller, N. Kälin, C. Werner und A. Waag	Structured illumination at the nanoscale
1.77	Nonlinear absorption behavior of GaN and sapphire from the IR to the UV	S. Higgins-Wood, F. Meierhofer, A. Waag	Structured illumination at the nanoscale
1.78	Development of AlN-based ring resonators with MoS ₂ as the amplifying medium	B. Szafranski, J. Zhu, A. Sorokina, L. Müller, J. Hartmann, R. Miranti-Augustin, A. Waag, S. Kroker, T. Voss	Structured illumination at the nanoscale
1.75	TG Quantum Electrical Standards	F. Hohls, H. W. Schumacher	Quantum electrical standards
1.76	NV Magnetometry and Quantum Calibration Using NV Centers	R. Reuter, S. Sievers, H. W. Schumacher	Quantum electrical standards
1.79	Stability and robustness of graphene quantum Hall resistance standards for electrical metrology	Y. Yin, M. Kruskopf, P. Gournay, B. Rolland, M. Götz, T. Tschirner, D. Momeni, A. Chatterjee, F. Hohls, K. Pierz, R. J. Haug, and H. W. Schumacher	Quantum electrical standards
1.80	Status on a HTS Josephson junction voltage standard	D. Hanisch, M. Pröpper, B. Hampel and M. Schilling	Quantum electrical standards
Day 2 Poster Program			
2.05	A close-cycle-cooled ultra-stable optical cavity at 124 K with 1.5×10^{-17} fractional frequency stability	D. Nicolodi, S. Herbers, T. Legero, U. Sterr	Optical Clocks in Networks
2.06	Testing novel high-reflectivity mirror technologies from room-temperature to 4 K	M. Kempkes, T. Legero, U. Sterr, D. Nicolodi	Optical Clocks in Networks, Novel micro-optomechanical mirrors
2.14	Novel noise contributions in crystalline AlGaAs coatings for ultra-stable optical resonators	Chun Yu Ma , Jialiang Yu , Steffen Sauer , Sofia Herbers, Mona Kempkes, Thomas Legero, Daniele Nicolodi, Fritz Riehle, Dhruv Kedar, Jun Ye, Uwe Sterr	Optical Clocks in Networks
2.11	Recent progress towards a suspended Sub SQL Interferometer	Johannes Lehmann (on behalf of TG)	Sub Standard quantum limit in suspended interferometers
2.12	Test of Homodyne Quadrature Interferometers to improve multi-stage seismic isolation systems	Johannes Lehmann	Sub Standard quantum limit in suspended interferometers
2.13	Characterization and Simulation of Laserbeam deformations for Low-Noise Interferometry	K. Weber, G. Wanner, J. Rosario, D. A. Reyes, G. Heinzel	Optical Simulations and Space Laser Gravimetry
2.19	The Hannover Torsion Balance a test platform for novel inertial sensing concepts	C. Gentemann, K. Danzmann, G. Heinzel	Space Laser Gravimetry
2.20	Levenberg Marquardt fit vs Kalman Filter for DFM readout	S. Gozzo, M. Dovale, V. Huarcaya, G. Heinzel	Space Laser Gravimetry
2.21	Evaluation of Optical Accelerometry and Satellite Formation Flights for Future Gravimetry Missions	A. Kupriyanov, A. Reis, Y. Yan, M. Schilling, V. Müller, J. Müller	Space Laser Gravimetry

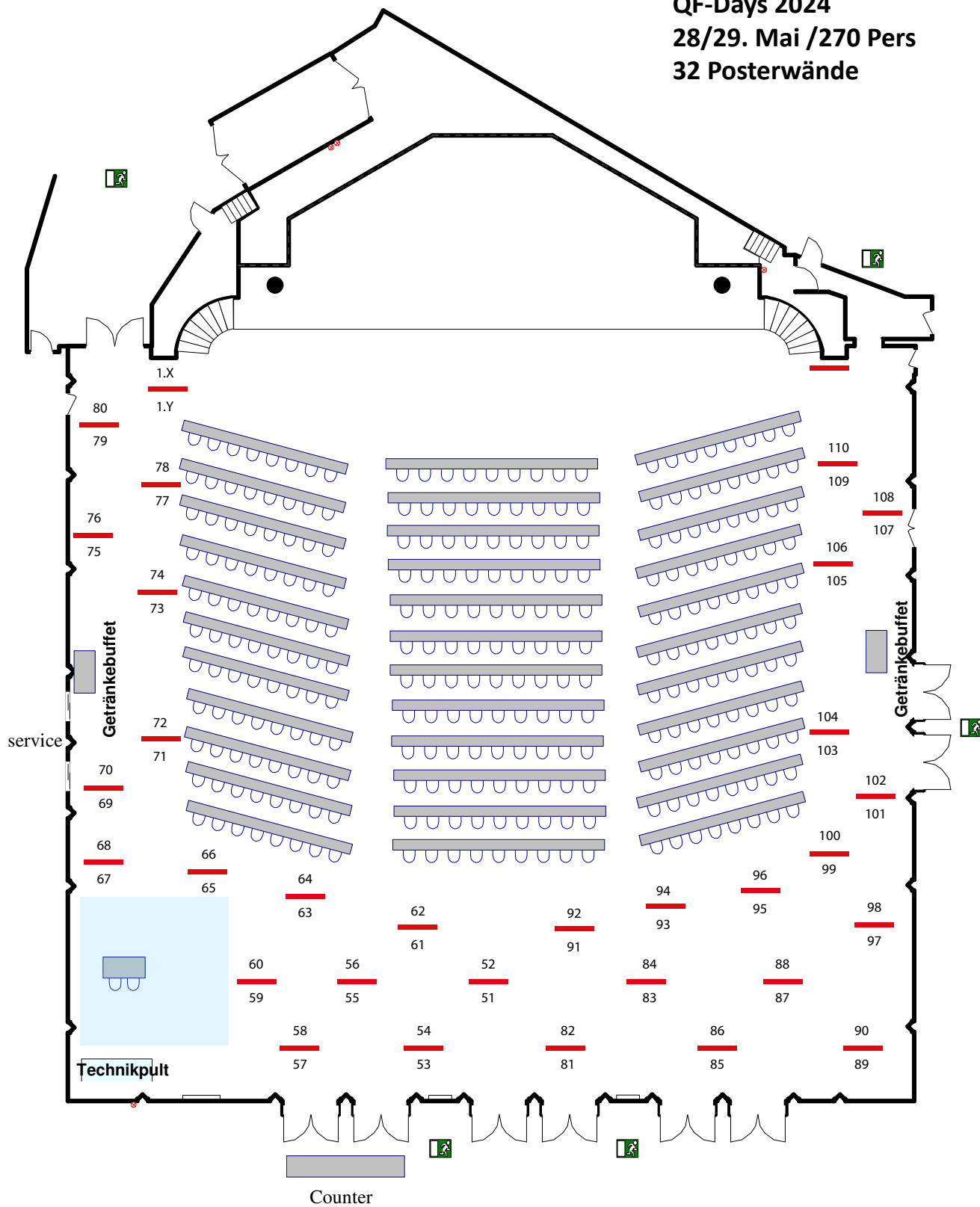
2.22	Beyond MAGIC: Quantum Accelerometers for Future Gravimetry Missions	A. Kupriyanov, A. Reis, M. Schilling, A. Knabe, N. Fletting, A. HosseiniArani, Y. Yan, M. Romeshkani, V. Müller, J. Müller	Space Laser Gravimetry
2.27	Using optomechanical systems to test gravitational theory	Dennis Rätzel	Tests of fundamental physics - gravity
2.28	Advancing inter-spacecraft Laser Interferometry	S.Sachit, T.Wegehaupt,...	Space Laser Gravimetry
2.29	Future Laser Ranging Interferometers for GRACE-C and NGGM	M. Misfeldt, L. Müller, V. Müller	Space Laser Gravimetry
2.30	Optical simulations for noise analyses in space-based interferometers	R. Garcia Alvarez, M. Dave, T. Kaune, G. Wanner, G. Heinzel	Space Laser Gravimetry
2.35	Chronometry for Relativistic Geodesy and Tests of Gravity	Dennis Philipp, Jan Hackstein, Jan Scheumann, Eva Hackmann, Claus Lämmerzahl	Tests of fundamental physics - gravity
2.36	Advanced Lunar Laser Ranging for Testing Relativity and Studying the Earth-Moon System	Mingyue Zhang, Liliane Biskupek, Jürgen Müller, Eva Hackmann, Claus Lämmerzahl	Tests of fundamental physics - gravity
2.37	An operational framework for long distance quantum communication	Emanuel Schlake, Dennis Rätzel, Claus Lämmerzahl	Tests of fundamental physics - gravity
2.38	Gravitationally induced entanglement dynamics of photon pairs and quantum memories	Roy Barzel, Mustafa Gündoğan, Markus Krutzik, Dennis Rätzel, Claus Lämmerzahl	Tests of fundamental physics - gravity
2.43	A quantum gravimeter utilizing BEC	Pablo Nuñez von Voigt, Nina Heine, Smit Kanawade, Najwa Al-Zaki, Tobias Bullwinkel, Christian Schubert, Waldemar Herr, Jürgen Müller, Ernst M. Rasel	Quantum sensors for geodetical observations and relativistic geodesy
2.44	Towards a 2-photon E1-M1 clock transition on a bosonic cold ytterbium cloud	M. Montero, A. Lezeik, K. Zipfel, C. Schubert, D. Schlippert	Tests of fundamental physics - gravity
2.45	Theory of Bloch-oscillation-enhanced atom interferometry	Ashkan Alibabaei, Florian Fitzek, Patrik Mönkeberg, Klemens Hammerer, Naceur Gaaloul	Tests of fundamental physics - gravity and Cold atoms in space
2.46	Quantum Imaging of Gravity	Marian Cepok, Dennis Rätzel, Claus Lämmerzahl	Tests of fundamental physics - gravity
2.49	First results on the 10 m baseline of the Very Long Baseline Atom Interferometry facility	D. Tell, V. Gupta, K. Grensemann, E.M. Rasel, D. Schlippert	Quantum Sensors for Geodetical Observations and Relativistic Geodesy
2.50	State-of-the-art suppression of seismic noise for Very Long Baseline Atom Interferometry	K.C. Grensemann, J. Klussmeyer, K. Zipfel, E.M. Rasel, D. Schlippert	Quantum Sensors for Geodetical Observations and Relativistic Geodesy
2.81	Current status of PTB's aluminium ion clock	F. Dawel, J. Kramer, K. Dietze, L. Pelzer, M. Hild, P.O. Schmidt	Optical Clocks in Networks
2.82	Artificial clock transitions with multiple trapped 40Ca^+ ions	K. Dietze, L. Pelzer, L. Krinner, F. Dawel, J. Kramer, P.O. Schmidt	Optical Clocks in Networks
2.83	Towards the redefinition of the second: high-accuracy clock comparisons at PTB	H.N. Hausser, J. Keller, S. Dörscher, K. Stahl, J. Klose, C. Lisdat, M. Filzinger, N. Huntemann, E. Peik, E. Benkler, T.E. Mehlstäubler	Optical Clocks in Networks
2.84	International comparisons of strontium clocks	Sören Dörscher, Ingo Noßke, Chetan Vishwakarma, Tim Lücke, Joshua Klose, Kilian Stahl, Alexander Kuhl, Shambo Mukherjee, Jochen Kronjäger, Christian Lisdat	Optical Clocks in Networks
2.85	Applications of optical clock networks in Geodesy	A. Shabanloui, A. Vincent, M. Zhang, J. Müller	Optical Clocks in Networks
2.86	A plug-and-play solution for optical frequency comparisons over free-space	J. Ji, S. Mukherjee, A. Kuhl, M. Leipe, M. Rothe, F. Steinlechner, J. Kronjäger	Optical Clocks in Networks
2.87	Atomic parity violation in 40Ca and 48Ca	A. V. Viatkina, C. Mertens, B. Ohayon, A. Surzhykov	Tests of fundamental physics - spectroscopy
2.88	Identification of highly-forbidden optical transitions in highly charged ions	Shuying Chen, Lukas J. Spieß, Alexander Wilzewski, Malte Wehrheim, Kai Dietze, Ivan Vybornyí, Klemens Hammerer, José R. Crespo López-Urrutia, and Piet O. Schmidt	Tests of fundamental physics - spectroscopy
2.89	Towards quantum metrology with trapped (anti-)protons	J. Schaper, J.-A. Coenders, N. Hashemi, N. Poljakov, J. M. Cornejo, S. Ulmer, C. Ospelkaus	Tests of fundamental physics - spectroscopy
2.90	Towards quantum logic spectroscopy of single molecular ions	T.Rehmert, M. J. Zawierucha, F. Wolf, P. O. Schmidt	Tests of fundamental physics - spectroscopy

2.91	New physics searches using optical clock experiments	Melina Filzinger, Martin Steinel, Jian Jiang, Nils Huntemann	Tests of fundamental physics - spectroscopy
2.92	PTB's transportable Al ⁺ ion clock	Benjamin Kraus, Constantin Nauk, Joost Hinrichs, Gayatri Sasidharan, Vanessa Galbierz and Piet O. Schmidt	Tests of fundamental physics - spectroscopy
2.94	Probing dark bosons and nuclear polarization with Ca isotope shifts	Malte Wehrheim, Alexander Wilzewski, Lukas J. Spieß, Shuying Chen, Peter Micke, Steven King, Melina Filzinger, Martin Steinel, Anna Viatkina, Agnese Mariotti, Jan Richter, Nils Huntemann, Elina Fuchs, Andrey Surzhykov and Piet O. Schmidt + external collaborators	Tests of fundamental physics - spectroscopy
2.95	Test of fundamental physics via precision spectroscopy with Yb ⁺ ions	J. Yu, C.-H. Yeh, F. Kirk, A. Singh, I. A. Biswas, L. S. Dreissen, K. C. Grensemann, H. A. Fürst, E. Fuchs, T. E. Mehlstäubler	Tests of fundamental physics - spectroscopy
2.96	Nonclassical photon statistics from strong field interaction	Philip Mosel, Sven Fröhlich, Kim Weber, Andrea Trabattoni, Uwe Morgner, Milutin Kovacev	Tests of fundamental physics - spectroscopy
2.97	Surface-electrode ion trap design	Florian Ungerechts, Rodrigo Munoz, Janina Bätge, Teresa Meiners, Brigitte Kaune, Christian Ospelkaus	Quantum computation concepts
2.98	Arbitrary quantum circuits on a fully integrated two-qubit computation register for a trapped-ion quantum processor	M. Duwe, H. Mendpara, N. Pulido, T. Dubielzig, G. Zarantonello, L. Krinner, C. Ospelkaus	Quantum computation concepts
2.99	Design of a cryogenic scalable trapped-ion quantum computer	Celeste Torkzaban, David Stuhmann, Lukas Kilzer, Marco Bonkowski, Radhika Goyal, Sebastian Halama, Tobias Pootz, Christian Ospelkaus	Quantum computation concepts
2.100	QVLS Q1 supporting experiment for development of techniques for ion transport and sympathetic cooling	A. Onkes, C. Joohs, M. Duwe, L. Krinner, C. Ospelkaus	Quantum computation concepts
2.101	Glass-Silicon Emitter Chip for Field Emission Applications	Buchta, A.; Kassner, A.; Dencker, F.; Wurz, M.C.	TrapFab
2.102	Integration of optical components in miniaturized quantum systems (MQS)	A. Kassner, C. Künzler, J. Petring, N. Droese, F. Kranert, L. Diekmann, F. Dencker, S. Abend, H. Heine, J. Neumann, D. Kracht, M. C. Wurz, E. M. Rasel	TrapFab
2.103	Microfabrication of surface-electrode ion traps - Current status and future approaches	F. Giebel, E. Iseke, N. Krishnakumar, N. Stahr, J. Stupp, K. Thronberens, C. Ospelkaus	TrapFab
2.104	Nanophotonic integrated ion traps	C-F. Grimpe, G. Du, F. Salahshoori, E. Jordan, A. Sorokina, S. Sauer, S. Kroker, T. E. Mehlstäubler	TrapFab and Structured Illumination at the Nanoscale
2.105	PNoQu: Programmable Nano-Optical Quantum Technology Platform for Neutral Atoms	S. Sauer, A. Sorokina, C.-F. Grimpe, G. Du, S. Wellmann, A. Herbst, E. Jordan, T. Mehlstäubler, D. Schlippert, and S. Kroker	TrapFab and Structured Illumination at the Nanoscale
2.106	Advanced materials and technologies for commercial production of 3D ion traps	K. Kurselis, L. Bauer, E. Jordan, E. Jansson, R. Kiyon, U. Hinze, T. E. Mehlstäubler, B. Chichkov	TrapFab
2.107	Patterning MOF Growth on Carbon Nanotubes by Electron-Beam Pretreatment	Marvin J. Dzinnik, Necmettin E. Akmaz, Adrian Hannebauer, Andreas Schaate, Peter Behrens, Rolf J. Haug	Electron Microscopy
2.108	High angular momentum vortex electron beams in crystals	C. Bick, D. Hüser	Electron Microscopy
2.109	Controlling Nanoparticle Distance by On-surface DNA-origami Folding	Z. Liu, Z. Wang, J. Guckel, Z. Akbarian, T. J. Seifert, D. Park, U. Schlickum, R. Stosch, M. Etzkorn	Electron Microscopy
2.110	Transmission Electron Microscope at the LNQE Research Building	Fritz Schulze-Wischeler	Electron Microscopy

Saal Maritim

Leibniz Universität Hannover
Bestuhlung für 284 Personen

QF-Days 2024
28/29. Mai /270 Pers
32 Posterwände

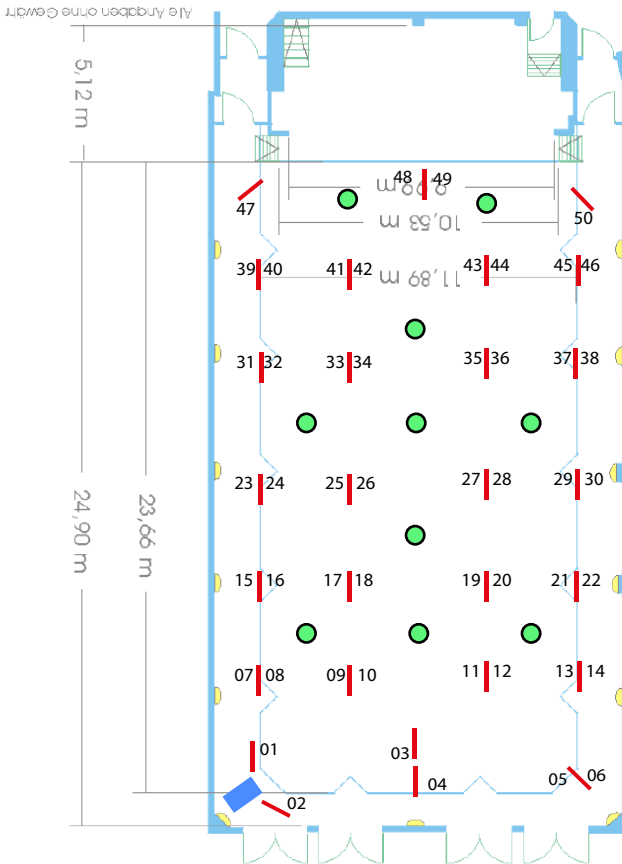


Stuhltreihen	Parlament.	U-Form außen	Block	Bankett runde Tische	Bankett lange Tische
500	280	70	---	300	72

Maximale Bestuhlung:

Lage: Erdgeschoss
 Nutzfläche: 440 qm inkl. Bühne
 Maße: Höhe außen: 3,20 m
 Höhe innen: 4,10 m
 Länge: 24,91 m
 Breite: 15,19 m
 Türbreite: 2,34 m
 Höhe: 10,24 m
 Türhöhe: 2,32 m
 Tiefe: 5,12 m
 Breite: 10,24 m
 Höhe: 0,90 m

Saal Hannover



DAY 1

DAY 2

Legende:

█ 28 Posterwände

Eingang

● 10 Stehtische

█ Exponate-Tisch min. 60x60