



Monday, 24 August 2026		
08:45 - 09:00	Welcome	
09:00 - 09:45	Jacinda Ginges	Nuclear magnetic structure and why it matters in new physics searches
09:45 - 10:30	Fiona Kirk	Estimating the New Physics Sensitivity of the Th-229 Nuclear Clock
10:30 - 11:00	Coffee Break	
11:00 - 11:30	Lukas Pasteka	Search for the variation of fundamental constants
11:30 - 12:00	Jack Easton	The enhancement of fundamental symmetry violations in atomic systems with deformed nuclei
12:00 - 12:30	Steven Jones	Testing Matter/Antimatter Symmetries using Cold Molecules and Antihydrogen
12:30 - 14:00	Lunch Break	
14:00 - 14:45	Ekkehard Peik	From nuclear laser spectroscopy to the nuclear clock with Th-229
14:45 - 15:30	Thorsten Schumm	The solid-state approach to the nuclear clock
15:30 - 16:00	Coffee Break	
16:00 - 16:30	Ira Morawetz	Realization of a Thorium-229 Nuclear Clock based on Absorption Spectroscopy
16:30 - 17:00	Sebastian Lahs	Thorium-229 Nuclear Clock for Dark Matter Searches
17:00 - 18:00	Poster Session 1	

Invited Lecture - 45 min	Selected Talk - 30 min
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Tuesday, 25 August 2026		
09:30 - 10:30	Lab tour: BMSR-2 facility	
10:30 - 11:00	Coffee Break	
11:00 - 11:30	Martin Plávala	Existing experiments suffice to indirectly verify the quantum essence of gravity
11:30 - 12:00	Sebastian Ulbricht	Hybrid van Hove approach to classically mediated quantum entanglement and its implications for quantum tests of gravity
12:00 - 12:30	Presentation of Heraeus Foundation (Dr. Jorda)	
12:30 - 14:00	Lunch Break	
14:00 - 16:30	Helmholtz Prize Ceremony <i>Ceremonial Lecture at 14:20: Dmitry Budker - Precision and sensitive measurements with quantum sensors: probing the standard model and beyond</i>	
16:30 - 17:30	Champagne reception	
17:30 - 20:00	Dinner	

Wednesday, 26 August 2026		
09:00 - 09:45	Christoph Schweiger	High-precision Q-value measurements for neutrino physics
09:45 - 10:30	Jason Arakawa	Transient Signals of New Physics with Quantum Sensors
10:30 - 11:00	Coffee Break	
11:00 - 11:30	Nils Huntemann	Optical clocks for new physics searches
11:30 - 12:00	Steven Worm	Quantum Sensing in Particle Physics and the TIQTOC Experiment
12:00 - 12:30	Chunhai Lyu	Testing time-dilation effect at the quantum level with trapped ions
12:30 - 14:00	Lunch Break	
14:00 - 14:45	Vladimir Yerokhin	Next-to-leading effects in isotope shifts
14:45 - 15:30	Igor Valuev	Nuclear polarization beyond Coulomb approximation
15:30 - 16:00	Coffee Break	
16:00 - 19:00	Social programme: Excursion "100 Years of Science in the 'German Oxford'"	



Thursday, 27 August 2026		
09:00 - 09:45	Gonalo Baptista	Precision Spectroscopy of Antiprotonic Systems
09:45 - 10:30	Konstantin Beyer	Self-consistent bounds on Beyond the Standard Model bosons from spectroscopy of muonic atoms with magic nuclei
10:30 - 11:00	Coffee Break	
11:00 - 11:30	Janko Nauta	A new era of fundamental physics tests with antihydrogen
11:30 - 12:00	Jonas Sommerfeldt	All-Order Vacuum Polarization Correction in Heavy Atomic Systems
12:00 - 12:30	Giovanni Gallucci	The MuEDM Experiment for the Search of the Muon Electric Dipole Moment: Status and Prospects
12:30 - 14:00	Lunch Break	
14:00 - 14:45	Diana Aude Craik (online)	An entanglement scheme to measure atomic parity violation at sub 0.1% precision
14:45 - 15:30	Fabian Wolf	Quantum Logic Control of Molecular and Transition-Metal Ions
15:30 - 16:00	Coffee Break	
16:00 - 16:30	Laura Dreissen	Precision quantum metrology with trapped Ba ⁺ ions for tests of fundamental physics
16:30 - 17:00	Anna Viatkina	Atomic parity violation in highly charged 40,48Ca and 208Pb ions
17:00 - 18:00	Poster Session 2	
18:00 - 19:00	Dinner	
19:00 - 20:00	Evening lecture: Natalia S. Oreshkina	

Friday, 28 August 2026		
09:00 - 09:45	Vera Schfer	Searching for a variation of α with highly charged ions
09:45 - 10:15	Lei Cong	Precision Searches for Spin-Dependent Exotic Interactions
10:15 - 10:45	Coffee Break	
10:45 - 11:30	Naceur Gaaloul	Atom Interferometry for New Physics searches
11:30 - 12:00	John Carlton	Ultra-light dark matter phenomenology with atom interferometers
12:00 - 12:30	Kateryna Korshynska	Ultralight dark matter: astrophysical and cosmological implications
12:30 - 12:45	Closing	