



Monday, 18th July 2022

Time	Title	Presenter	Duration
08h00	Registration		60'
09h00	Session 1: ESR, HITRAP facility, LEPT, EBITs		1h40
09h00	Introduction	Wolfgang Quint	10'
09h10	ESR as a Decelerator of Heavy Ions for HITRAP – Status and Recent Developments	Markus Steck	25'
09h35	ITRAP Decelerator Status	Zoran Andelkovic	25'
10h00	Simultaneous storage of ions and electrons in the HITRAP cooling trap	Max Horst	20'
10h20	Commissioning of the HITRAP cooling trap with offline ions	Simon Rausch	20'
10h40	Coffee Break		30'
11h10	Session 2: Surface Physics 1		1h35
11h10	S-EBIT II, a local ion source for HITRAP	Tino Morgenroth	25'
11h35	Surface modification using slow highly charged ions	Anna Niggas	25'
12h00	Perforation of 2D-structures by impact of highly charged ions	Alexander Grosseck	25'
12h25	Lunch		1h35
14h00	Session 3: Collisions, Fragmentation, X-ray 1		2h05
14h00	Interaction of slow highly charged xenon ions with metallic surfaces	Dariusz Banas	25'
14h25	Interaction of Highly Charged Ions with Surfaces - Two Decades of Research at the HZDR Ion Beam Center	René Heller	25'
14h50	X-ray Spectroscopy of Charge Exchange at Ultra-Low Collision Energies	Sonja Bernitt	25'
15h15	Photon counting detectors for laser spectroscopy experiments at SPECTRAP	Volker Hannen	25'
15h40	CRYRIMS - The COLTRIMS-Reaction-microscope for CRYRING	Markus Schöffler	25'
16h05	Coffee Break		30'
16h35	Session 4: Poster Session		1h25
19h00	Dinner		3h00



Tuesday, 19th July 2022

Time	Title	Presenter	Duration
09h00	Session 5: Collisions, Fragmentation, X-ray 2		1h45
09h00	Relativistic effects in highly charged heavy ions	Zhimin Hu	30'
09h30	Studying quantum-dynamics in collision involving highly charged ions	Daniel Fischer	25'
09h55	Precision X-Ray Spectroscopy of He-like Uranium using Metallic Magnetic Calorimeters	Philip Pfäfflein	25'
10h20	Theoretical predictions of the structure of heavy muonic atoms and searching for an elephant in the room	Natalia Oreshkina	25'
10h45	Coffee Break		25'
11h10	Session 6: Laser spectroscopy, clocks 1		
11h10	Total binding energies and prediction of very long-lived metastable states for ion trap experiments	Paul Indelicato	25'
11h35	Open-source Laser System for the Spectroscopy of Highly Charged Ions	Patrick Baus	25'
12h00	Clocks based on highly charged ions for tests of fundamental physics	Peter Micke	25'
12h25	Lunch		1h35
14h00	Session 7: Laser spectroscopy, clocks 2		40'
14h00	Stringent test of QED in hydrogenlike $^{118}\text{Sn}^{49+}$	Jonathan Morgner	40'
15h00	Workshop Event – Wartburg Excursion		4h00
19h00	Dinner		3h00



Wednesday, 20th July 2022

Time	Title	Presenter	Duration
09h00	Session 8: QED, Precision traps		1h40
09h00	Theory of bound-electron g-factors	Andrzej Czarnecki	45'
09h45	Strong-field QED and beyond in highly charged ions	Zoltan Harman	25'
10h10	ARTEMIS: Toward Measurement of Magnetic Moments in Heavy, Highly Charged Ions	Kanika Jeffrey Klimes	30'
10h40	Coffee Break		30'
11h10	Session 9: QED, Precision traps		1h10
11h10	SpecTrap	Manuel Vogel	15'
11h25	Atomic processes and cascades: News from the JAC toolbox	Stephan Fritzsche	25'
11h50	Nonlinear isotope-shift effects in highly-charged ions	Andrey Surzhykov	25'
12h15	Final Discussion	Paul Indelicato	15'
12h30	Lunch		1h30
14h00	Trip to Jena		