







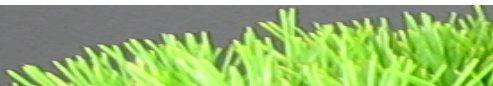


Program

	30th, Sunday	1st, Monday	2nd, Tuesday	3rd, Wednesday	4th, Thursday	5th, Friday		
8:00		COFFEE & REGISTRATION (International Conference Hall, Takamatsu Symbol Tower Tower Bldg. 6F)	COFFEE	COFFEE	COFFEE	COFFEE		
8:30			Litvinov	Cornell	Yao	Toyoda		
9:00			Wada		Zhang	Nakamura	Vogel	
9:30			En'yo	Yamaguchi	Drewson	Versolato	Glazov	
10:00			Yamazaki	Nörtershäuser		Fabian	Sternberg	
10:30			Hori	Wakasugi	Kuroda	Baumann	Lienard	
11:00			Comparat	COFFEE		Oreshkina	COFFEE	Melconian
11:30			LUNCH	Schmidt	Bollinger	Ali	Hasegawa	
12:00					Azuma	Willmann	Ito	
12:30			Andelkovic	Furukawa	Fujiwara	Brunner	Ringle	
13:00			Herfurth	Chen		Shabaev	Rosenbusch	
13:30			Redshaw	CONFERENCE PHOTO		Kawamura	LUNCH	
14:00			Eibach	LUNCH	Smorra	Nagy		
14:30			Mehlman		Ulmer	Chupp	Kwiatkowski	
15:00			COFFEE	Wollnik	EXCURSION (Garden, Food, Culture)	LUNCH	Clark	
15:30			Perez	Plaß		Leibfried	COFFEE	Eronen
16:00			Gutierrez	Wolf		Roos	Block	
16:30	Pusa	Simon	Kim	Summary				
17:00	Simon	Schury	Sturm	RECEPTION (CIERO Exhibition hall, JR Clement Hotel 21F)				
17:30	POSTER SESSION (International Conference Hall, Takamatsu Symbol Tower, Hall Bldg.1F)	Schweikhard	Eliseev					
18:00	REGISTRATION (CIERO Exhibition hall, JR Clement Hotel 21F)	Dickel	Dzuba					
18:30	RECEPTION (CIERO Exhibition hall, JR Clement Hotel 21F)	Saito	Fujita					
19:00	RECEPTION (CIERO Exhibition hall, JR Clement Hotel 21F)	LEAVE FOR BANQUET						
19:30		BANQUET (Hanajukai)						
20:00								
20:30								
21:00								

 Anti-Hydrogen	 Ion Traps for HCl	 Storage Rings
 Applications of Particle Trapping	 Fundamental Interactions and Symmetries	 Joint Session
 Quantum and QED Effects	 Precision Spectroscopy and Frequency Standard	



8:00	COFFEE & REGISTRATION			60
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Session 1A-1 Chair: Wada, Michiharu

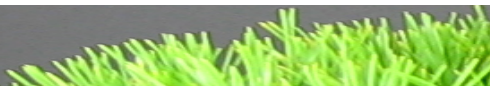
Opening				
9:00	Wada, Michiharu	Opening remarks		15
9:15	En'yo, Hideto	Welcome to TCP in Takamatsu		15
Anti-Hydrogen (1)				
9:30	Yamazaki, Yasunori	What (anti-)matters with antimatter?	P. 13	40+10
10:20	Hori, Masaki	Two-photon laser spectroscopy of antiprotonic Helium and antiproton-to-electron mass ratio	P. 14	20+5
10:45	Comparat, Daniel	Present status of the AEGIS Experiment and prospect for cooling antiprotons.	P. 15	20+5
11:10	LUNCH			80

Session 1P-1 Chair: Sakemi, Yasuhiro

Ion Traps for HCI (1)				
12:30	Andelkovic, Zoran	Experiments with highly charged ions at HITRAP	P. 16	20+5
12:55	Herfurth, Frank	Deceleration and storage of highly charged ions and antiprotons at GSI/FAIR	P. 17	20+5
13:20	Redshaw, Matthew	CHIP-TRAP: A high-precision double Penning trap mass spectrometer for stable and long-lived radioactive isotopes	P. 18	15+5
13:40	Eibach, Martin	Mass measurements of rare isotopes with a single ion	P. 19	15+5
14:00	Mehlman, Michael	Current status of the TAMUTRAP facility	P. 20	15+5
14:20	COFFEE			20

Session 1P-2 Chair: Fujiwara, Makoto

Anti-Hydrogen (2)				
14:40	Ulmer, Stefan	First direct high-precision measurement of the magnetic moment of the proton and status of BASE	P. 21	20+5
15:05	Perez, Patrice	The GBAR antimatter gravity experiment	P. 22	20+5
15:30	Gutierrez, Andrea	Antiproton cloud radial compression in the ALPHA apparatus at CERN	P. 23	15+5
15:50	Pusa, Petteri	Antihydrogen annihilation vertex detection in the ALPHA experiment	P. 24	15+5
16:10	Simon, Martin	A spectroscopy beamline for the hyperfine structure of antihydrogen and its characterization with a Hydrogen beam	P. 25	15+5
17:00	POSTER SESSION (Exhibition Hall, Hall Bldg. 1F)			120



8:00	COFFEE	10
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Session 2A-1 Chair: Schuch, Reinhold

Storage Rings				
8:10	Litvinov, Yuri	Beta-decay of highly-charged ions	P. 26	40+10
9:00	Zhang, Yu Hu	Precision mass measurements of short-lived nuclides at storage ring in Lanzhou	P. 27	20+5
9:25	Yamaguchi, Yoshitaka	Rare-RI ring at RIKEN RI Beam Factory	P. 28	20+5
9:50	Nörtershäuser, Wilfried	Laser-based tests of fundamental symmetries and interactions at the ESR	P. 29	20+5
10:15	Wakasugi, Masanori	The SCRIT electron scattering facility	P. 30	20+5

10:40	COFFEE	20
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Session 2A-2 Chair: Uesaka, Tomohiro*

11:00	Schmidt, Henning	Low energy storage rings for molecular physics	P. 31	40+10
11:50	Azuma, Toshiyuki	RIKEN's new cryogenic electrostatic ion storage ring for atomic and molecular physics: RICE	P. 32	20+5
12:15	Furukawa, Takeshi	Rapid cooling of isolated small carbon cluster anions	P. 33	15+5
12:35	Chen, Xiangcheng	A new approach to the particle position detection in a storage ring	P. 34	15+5

12:55	CONFERENCE PHOTO	15
13:10	LUNCH	80

Session 2P-1 Chair: Litvinov, Yuri

Applications of Particle Trapping (1)				
14:30	Wollnik, Hermann	High-resolving mass analyzers	P. 35	40+10
15:20	Plaß, Wolfgang	First direct mass measurements with the MR-TOF-MS at the FRS ion catcher	P. 36	20+5
15:45	Wolf, Robert	Multi-reflection time-of-flight mass separation and spectrometry at ISOLTRAP/ISOLDE	P. 37	20+5

16:10	COFFEE	20
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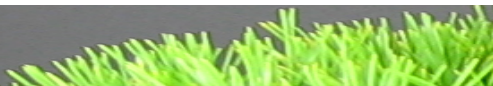
Session 2P-2 Chair: Schwarz, Stefan

16:30	Schury, Peter	High-precision mass measurements of trans-Uranium nuclei by MRTOF-MS: shifting the paradigm in SHE-identification	P. 38	20+5
16:55	Schweikhard, Lutz	Polyanion production in Penning and RFQ ion traps	P. 39	15+5
17:15	Dickel, Timo	The MR-TOF isobar separator for the TITAN facility at TRIUMF	P. 40	15+5

Fundamental Interactions and Symmetries (1)

17:35	Saito, Naohito	Muon's g-2 experiment at J-PARC	-	20+5
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18:00	LEAVE FOR BANQUET	60
19:00	BANQUET (Hanajukai)	120



8:00	COFFEE	30
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Session 3A-1 Chair: Schweikhard, Lutz

Joint Session				
8:30	Cornell, Eric	Measuring the electron's electric dipole moment in a trapped molecular ion.	P. 41	40+10
9:20	Drewson, Michael	Quantum state preparation of single molecular ions	P. 42	25+5
9:50	Kuroda, Naofumi	The ASACUSA CUSP experiment	P. 43	25+5

10:20	COFFEE & MINGLING	30
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Session 3P-1 Chair: Higaki, Hiroyuki

10:50	Bollinger, John	Sensitive detection of modes and quantum simulation with 2D arrays of trapped ions	P. 44	25+5
11:20	Fujiwara, Makoto	Fundamental physics with the ALPHA antihydrogen trap	P. 45	25+5
11:50	Storry, Cody	A new hydrogenic atom, e^+H^- / Positron systems for antihydrogen and other positronic atom physics	P. 46 P. 47	30+5

12:25	EXCURSION (Garden, Food, Culture)	-
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8:00	COFFEE	10
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Session 4A-1 Chair: Azuma, Toshiyuki

Ion Traps for HCI (2)				
8:10	Yao, Ke	The high precision mass spectrometer-SMILETRAP meets an EBIT in Shanghai	P. 48	20+5
8:35	Nakamura, Nobuyuki	Spectroscopic studies of highly charged ions at the Tokyo electron beam ion trap facility	P. 49	20+5
9:00	Versolato, Oscar	Coulomb-crystalized highly charged ions	P. 50	20+5
9:25	Fabian, Xavier	Using GPU parallelization to perform realistic simulations of the LPCTrap experiments : from a trapped ion cloud to a time-of-flight measurement	P. 51	15+5
9:45	Baumann, Thomas	Status of the ReA electron beam ion trap charge breeder at NSCL	P. 52	15+5
10:05	Oreshkina, Natalia	Dynamical effects in the X-ray transition strengths of astrophysically relevant Fe ¹⁶⁺ ions	P. 53	15+5
10:25	Safdar, Ali	High-resolution intensity ratio measurements in EUV spectral wavelength for ions of astrophysical interest	P. 54	15+5
10:45	COFFEE			20

Session 4A-2 Chair: Doser, Michael

Fundamental Interactions and Symmetries (2)				
11:05	Willmann, Lorenz	Parity violation measurements in trapped single radium ions	P. 55	20+5
11:30	Brunner, Thomas	Ba-ion extraction from high-pressure Xe gas for double-beta decay studies with nEXO	P. 56	20+5
11:55	Shabaev, Vladimir M.	Fundamental physics with highly charged ions at low energies	P. 57	20+5
12:20	Kawamura, Hirokazu	Magneto-optical trapping of radioactive atoms for test of the fundamental symmetries	P. 58	15+5
12:40	Smorra, Christian	BASE - High-precision tests of CPT invariance using antiprotons	P. 59	15+5
13:00	Chupp, Tim	Muon's g-2 experiment at Fermi-lab.	-	20+5
13:25	LUNCH			65

Session 4P-1 Chair: Sugiyama, Kazuhiko

Quantum and QED Effects (1)				
14:30	Leibfried, Dietrich	Scalable quantum information processing with trapped ions at NIST	P. 60	40+10
15:20	Roos, Christian	Engineering and observation of interacting quasiparticles in a trapped-ion many-body system	P. 61	20+5
15:45	Kim, Taehyun	Development of the quantum repeater based on trapped ions	P. 62	20+5
16:10	COFFEE			20

Session 4P-2 Chair: Nakamura, Nobuyuki

Precision Spectroscopy and Frequency Standard (1)				
16:30	Sturm, Sven	The g-factor of highly charged ions - Stress test for the Standard Model and access to the mass of the electron	P. 63	20+5
16:55	Eliseev, Sergey	PI-ICR technique for mass measurements on short-lived nuclides and the PENTATRAP project	P. 64	20+5
17:20	Dzuba, Vladimir	Highly charged ions for atomic clocks and search for variation of the fine structure constant	P. 65	20+5
17:45	Fujita, Tomomi	Laser spectroscopy of atoms in superfluid helium for the measurement of nuclear spins and electromagnetic moments of radioisotope atoms	P. 66	15+5



8:00	COFFEE	10
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Session 5A-1 Chair: Schmidt, Henning*

Quantum and QED Effects (2)				
8:10	Toyoda, Kenji	Quantum simulation of the Jaynes-Cummings-Hubbard Model using trapped ions	P. 67	20+5
8:35	Vogel, Manuel	Extreme field physics in Penning traps	P. 68	15+5
8:55	Glazov, Dmitry	Quadratic Zeeman effect in highly charged ions	P. 69	15+5
Applications of Particle Trapping (2)				
9:15	Sternberg, Matthew	Precision β -decay experiments with the β -decay Paul trap	P. 70	20+5
9:40	Lienard, Etienne	Precision measurements with LPCTrap at GANIL	P. 71	20+5

10:05	COFFEE	15
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Session 5A-2 Chair: Ban, Gilles

10:20	Melconian, Dan	A new correlation Penning trap for fundamental physics at Texas A&M	P. 72	20+5
10:45	Hasegawa, Shuichi	Ion trap and laser cooling spectroscopy for isotope analysis	P. 73	15+5
11:05	Ito, Yuta	Gas-cell beam cooler-buncher for low-energy experiments at SLOWRI	P. 74	15+5
Precision Spectroscopy and Frequency Standard (2)				
11:25	Ringle, Ryan	Penning trap mass spectrometry at the LEBIT facility	P. 75	20+5
11:50	Rosenbusch, Marco	Probing exotic nuclei through mass measurements from ISOLTRAP	P. 76	20+5

12:15	LUNCH	60
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Session 5P-1 Chair: Kluge, H.-Jürgen

13:15	Nagy, Szilard	High-precision Penning-trap mass measurements at TRIGA-TRAP	P. 77	20+5
13:40	Kwiatkowski, Ania	TITAN: The ion trapping program at TRIUMF	P. 78	20+5
14:05	Clark, Jason	The Canadian Penning trap mass spectrometer at CARIBU	P. 79	20+5

14:30	COFFEE	15
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Session 5P-2 Chair: Kluge, H.-Jürgen

14:45	Eronen, Tommi	On-going developments and measurements at JYFLTRAP	P. 80	20+5
15:10	Block, Michael	Recent developments for investigations of the heaviest elements with SHIPTRAP	P. 81	20+5
15:35	TBA	Summary		25

*: to be confirmed

1	Park, Young-ho	Sympathetic laser cooler for highly charged ions at RAON facility	IT	P. 82
2	Chaudhuri, Ankur	An overview of the high-precision mass measurement system for RAON facility	IT	P. 83
3	Singh, Prithvi	Effect of projectile charge on electron and positron impact single ionization cross section of water molecule	FI	P. 84
4	Im, Kang-bin	Simulation of the sympathetic cooling of highly charged ions using a GPU	IT	P. 85
5	Reponen, Mikael	Optical pumping and resonance ionization of trapped ions at IGISOL	IT, AP	P. 86
6	Fuke, Kiyokazu	Preparation of cold ions in magnetic field and its application to gas-phase NMR spectroscopy	AP	P. 87
7	Jordan, Elena	Towards Laser Doppler Cooling of Negative Ions in a Penning Trap	AP	P. 88
8	Takamine, Aiko	Precision Measurements of Hyperfine Structure Constants and 2s-2p Transition Frequencies for Laser-Cooled Radioactive Beryllium Isotopes	PS, IT	P. 89
9	Ito, Kiyokazu	Experimental study on dipole motion of an ion plasma confined in a linear Paul trap	PE, AP	P. 90
10	Belov, Nikolay A.	Pair creation and annihilation with atoms and channeling nuclei	FI, PS, QQ	P. 91
11	Fujisaki, Hiroto	Laser-diode-based light source for single-ion spectroscopy of the $^2S_{1/2} - ^2D_{5/2}$ clock transition in Ba^+ at $1.76 \mu m$	PS	P. 92
12	Harries, James R.	Compact EBITs with large fields-of-view using permanent magnets and optimized for use at synchrotron and FEL beamlines	IT	P. 93
13	Singh, Rohtash	Effect of an Axial Magnetic Field and Ion Space Charge on Trapped Charged Particle in LBWA	PE	P. 94
14	Okada, Kunihiko	Characterization of ion Coulomb crystals for fundamental sciences	PS, PE	P. 95
15	Sakaue, Hiroyuki A.	EUV spectra of highly charged tungsten ions studied with an Electron Beam Ion Traps	IT	P. 96
16	Delahaye, Pierre	The LPCTrap measurement trap: an open Paul trap for fundamental tests	FI, IT, AP	P. 97
17	Inoue, Takeshi	Development of the optical magnetometer toward the search for the electron electric dipole moment	FI	P. 98
18	Tarlton, James	High-fidelity operations with calcium ion qubits	AP	P. 99
19	Funayama, Chikako	Performance assessment of a new laser system for efficient spin exchange optical pumping in a spin maser measurement of ^{129}Xe EDM	FI	P. 100
20	Masuda, Takahiko	Rate amplification of the two photon emission from para-hydrogen toward the neutrino mass measurement	QQ	P. 101
21	Arai, Fumiya	An ion-surfing RF-carpet gas cell for transuranium nuclei study at GARIS-II	IT	P. 102
22	Numadate, Naoki	Development of a Kingdon ion trap for observation of the forbidden X-ray transitions in solar wind charge exchange	AP	P. 103
23	Hrmo, Pavel	Sideband Cooling to the Ground State of a Calcium-40+ Ion in a Penning Trap	QQ, AP	P. 104
24	Michan, Mario	Towards Laser Cooling of Antihydrogen	AH	P. 105
25	Sternberg, Matthew G.	Cyclotron radiation emission spectroscopy (CRES) with trapped electrons	PS, NNP	P. 106
26	Dupré, Pierre	High-resolution mass separation by phase splitting and fast centering of ion motion in a Penning trap	AP, NNP	P. 107
27	Gutierrez, Andrea	Antiproton cloud radial compression in the ALPHA apparatus at CERN	AH, TCP	P. 108
28	Ito, Yuta	Gas-cell beam cooler-buncher for low-energy experiments at SLOWRI	IT, AP, TCP	P. 109

AH: Anti-Hydrogen AP: Applications of Particle Trapping FI: Fundamental Interactions and Symmetries
 IT: Ion Traps for Radioactive Nuclei and Highly Charged Ions PE: Plasma Effects and Collective Behavior
 PS: Precision Spectroscopy and Frequency Standard QQ: Quantum and QED Effects
 NNP: speaker in NNP TCP: speaker in TCP