

TCP2014

Friday 28 November 2014 - Friday 05 December 2014

Scientific Programme

List of invited speakers [tentative]*<u>Topical Overviews</u>*

Yuri Litvinov	Storage ring physics for RIB and fundamental physics
Henning Schmidt	Low-energy storage rings for molecular physics
Hermann Wollnik	MRTOF mass spectrometry
Yasunori Yamazaki	Experiments with antiprotons
Dietrich Leibfried	Ion quantum information processing

<u>Facilities</u>

Susanne Kreim	ISOLTRAP
Ania Kwiatkowski	TITAN
Ryan Ringle	LEBIT
Jason Clark	CPT
Tommi Eronen	JYFLTrap
Michael Block	SHIPTRAP
Zoran Andelkovic	SPECTRAP
Frank Herfurth	HITRAP
Szilard Nagy	TRIGATRAP
Sergey Eliseev	PENTATRAP
YuHu Zhang	CSRe
Yoshitaka Yamaguchi	Rare-RI Ring at RIKEN/RIBF
M. Wakasugi	Self Confining RI ion Target (SCRIT)
Wolfgang Plaß	MRTOF at FRS
Robert Wolf	MRTOF at ISOLDE
Peter Schury	MRTOF at RIKEN
Makoto Fujiwara	ALPHA
Naofumi Kuroda	ASACUSA

Patrice Perez	GBAR
Daniel Comparat	AEgIS
Yao Ke	Shanghai EBIT
Nobuyuki Nakamura	Tokyo EBIT
D. Melconian	New correlation Penning trap for fundamental physics at TAMU
Thomas Brunner	Paul trap for Ba tagging in double beta decay for EXO
Etienne Lienard	Status of LPC-Trap

Experiments

Sven Sturm	Electron Mass
Wilfried Nörtershäuser	QED tests at ESR
T. Azuma	Molecular physics with electrostatic storage ring
Masaki Hori	Two-photon laser spectroscopy of antiprotonic Helium and antiproton-to-electron mass ratio
Stefan Ulmer	g-factor of p/pbar in a Penning trap
Oscar Versolato	Coulomb crystals in a cryogenic Paul trap for sympathetic cooling of molecular ions and highly charged ions
M. Sternberg	New correlation and beta-delayed neutron in a Paul trap
Lorenz Willman	Parity violation measurements in trapped single radium ions
Eric Cornell	EDM searches with charged molecules.
T. Chupp ⁺	Muon g-2 experiment at Fermi-lab
Naohito Saito	Muon's g-2 experiment at J-PARC
Vladimir M. Shabaev	QED calculations in perturbative methods and numerical non perturbative approaches valid for strong fields
Christian Roos	A quantum information processor with trapped ions
Kenji Toyoda	Experimental realization of a quantum phase transition of polaritonic excitations
Taehyun Kim	Quantum information processing and quantum optics,

Application of Particle Trapping : Quantum Teleportation

⁺Not yet confirmed

Anti-Hydrogen

Applications of Particle Trapping

Fundamental Interactions and Symmetries

Ion Traps for Radioactive Nuclei and Highly Charged Ions

Precision Spectroscopy and Frequency Standards

Plasma Effects and Collective Behavior

Quantum and QED Effects

Storage Ring Physics

Other

Please explain in comments section