



# TCP2014

## Saturday, 29 November 2014

**session2: Optical lattice clock for fundamental physics (10:00 - 11:00)**

-Conveners: Hidetoshi Katori

**session2: Basics of fundamental physics with stored HCI (11:00 - 12:00)**

-Conveners: Vladimir Dzuba

# Monday, 1 December 2014

## session2: Anti-Hydrogen (2) (14:40 - 16:25)

-Conveners: Makoto Fujiwara

time	[id] title	presenter
14:40	[108] First direct high-precision measurement of the magnetic moment of the proton and status of BASE	Dr ULMER, Stefan
15:05	[109] The GBAR antimatter gravity experiment	Dr PEREZ, Patrice
15:30	[110] Antiproton cloud radial compression in the ALPHA apparatus at CERN	Ms GUTIERREZ, Andrea
15:50	[111] Antihydrogen annihilation vertex detection in the ALPHA experiment	Dr PUSA, Petteri
16:10	[112] A spectroscopy beamline for the hyperfine structure of antihydrogen and its characterization with a Hydrogen beam	Dr SIMON, Martin

# Tuesday, 2 December 2014

## session2: Applications of Particle Trapping (1) (14:30 - 17:30)

-Conveners: Yuri Litvinov; Stefan Schwarz

time	[id] title	presenter
14:30	[122] Overview on MRTOF mass spectrometry	Prof. WOLLNIK, Hermann
15:20	[123] First direct mass measurements with the MR-TOF-MS at the FRS ion catcher	Dr PLASS, Wolfgang
15:45	[124] Multi-reflection time-of-flight mass separation and spectrometry at ISOLTRAP/ISOLDE	Mr WOLF, Robert
16:10	Coffee	
16:30	[125] High-precision mass measurements of trans-Uranium nuclei by MRTOF-MS: shifting the paradigm in SHE-identification	Dr SCHURY, Peter
16:55	[126] Polyanion production in Penning and RFQ ion traps	Prof. SCHWEIKHARD, Lutz
17:15	[127] The MR-TOF isobar separator for the TITAN facility at TRIUMF	DICKEL, Timo

# Thursday, 4 December 2014

## session2: Fundamental interactions and symmetries (2) (11:05 - 13:20)

-Conveners: Michael Doser

time	[id] title	presenter
11:05	[142] Parity violation measurements in trapped single radium ions	Dr WILLMANN, Lorenz
11:30	[143] Ba-ion extraction from high-pressure Xe gas for double-beta decay studies with nEXO	Dr BRUNNER, Thomas
11:55	[144] Fundamental physics with highly charged ions at low energies	Prof. SHABAEV, Vladimir
12:20	[145] Magneto-optical trapping of radioactive atoms for test of the fundamental symmetries	KAWAMURA, Hirokazu
12:40	[146] BASE - High-precision tests of CPT invariance using antiprotons	Dr SMORRA, Christian
13:00	[147] muon's g-2 experiment at Fermi-lab.	Dr CHUPP, Tim