

Fundamental Interactions with Atom & Ion Traps

December 2-6, 2012
Weizmann Institute of Science
Rehovot, Israel

PROGRAMME

Sunday, December 2

19:00 **Get together reception** –
Lobby of the Pelletron Accelerator

Monday, December 3

Weissman Auditorium

Monday Morning 1 (09:00-11:05)

- 09:00-09:15 **Opening remarks**
Prof. Daniel Zajfman, President,
Weizmann Institute of Science
- 09:15-10:00 **G. Ron**, Hebrew University of Jerusalem
Remembering Stuart Freedman
- 10:00-10:45 **M. Ramsey-Musolf**, University of
Wisconsin-Madison
Beta decay studies in perspective
- 10:45-11:05 **Oscar Versolato**, Max-Planck-Institut für
Kernphysik
*Investigating a Time Variation with Cold
Highly Charged Ion*
- 11:05-11:30 **Coffee Break**

Monday Morning 2 (11:30-13:20)

- 11:30-12:15 **Daniel Zajfman**, Weizmann Institute of
Science
Electrostatic Traps
- 12:15-13:00 **R. Continetti**, University of California,
San Diego
*Electrostatic Ion Beam Traps for the Study
of Molecular Reaction Dynamics*
- 13:00-13:20 **S. Vaintraub**, Weizmann Institute of
Science
*The WI electrostatic trap for β -v
Correlation measurements*
- 13:20-14:30 **Lunch Break**

Monday Afternoon 1 (15:15-16:20)

- 15:15-16:00 **R. Ringle**, NSCL
*"Penning Trap Mass Measurements at the
NSCL"*
- 16:00-16:20 **T. Hirsh**, Soreq NRC
*Two stage 8Li RIB production system at
SARAF*
- 16:20-16:50 **Coffee Break**

Monday Afternoon 2 (16:50-18:40)

- 16:50-17:35 **G. Savard**, Argonne National Laboratory
& Univ. of Chicago
Argonne Paul Trap
- 17:35-18:20 **R. Wolf**, Institut für Physik, Universität
Greifswald
*First on-line application of a multi-
reflection electrostatic ion trap for isobaric
purification of exotic beams*
- 18:20-18:40 **S. Novario**, Michigan State University
*Development of the Single-Ion-Penning-
Trap (SIPT)*

Tuesday, December 4

Weissman Auditorium

Tuesday Morning 1 (09:00-10:50)

- 09:00-09:45 **S. Nussinov**, Tel Aviv University
Elementary particle physics connected to beta decay studies
- 09:45-10:30 **N. Davidson**, Weizmann Institute of Science
Optical Traps
- 10:30-10:50 **L. Weissman**, Soreq
The first steps in in-trap conversion electron spectroscopy
- 10:50-11:20 **Coffee Break**

Tuesday Morning 2 (11:20-13:10)

- 11:20-12:05 **O. Naviliat-Cuncic**, Michigan State University
Present Status of beta decay studies
- 12:05-12:50 **D. Ashery**, Tel Aviv University
The TRINAT trap program
- 12:50-14:30 **Lunch Break**

Tuesday Afternoon 1 (14:30-16:20)

- 14:30-15:15 **K. Jungmann**, University of Groningen, KVI
EDM Searches
- 15:15-16:00 **E. Mariotti**, Università di Siena
Francium trapping
- 16:00-16:20 **J. Crespo López-Urrutia**, MPI für Kernphysik
Trapped ions and X-rays for fundamental studies
- 16:20-16:50 **Coffee Break**

Tuesday Afternoon 2 (16:50-18:40)

- 16:50-17:35 **G. Chubaryan**, Texas A&M University, Cyclotron Institute
Rare Isotope Beam Facility at the TAMU Cyclotron Institute (Project T-REX)
- 17:35-18:20 **K. Blaum**, Max Planck Institute for Nuclear Physics
"Precision mass measurements on radioactive ions for nuclear astrophysics and fundamental studies"
- 18:20-18:40 **G. Soti**, Instituut voor Kern-en Stralingsfysica, KU Leuven
Search for tensor type charged weak currents in precision beta-asymmetry measurements of oriented nuclei

Wednesday, December 5

Weissman Auditorium

Wednesday Morning 1 (09:00-10:50)

- 09:00-09:45 **S. Sturm**, Max-Planck Institut für Kernphysik
The g-factor of hydrogen-like $^{28}\text{Si}^{13+}$
- 09:45-10:30 **R. Ozeri**, Weizmann Institute of Science
What happens when you look at a spin?
- 10:30-10:50 **M. Breitenfeldt**, IKS, K.U. Leuven
Embarking on the next phase of WITCH
- 10:50-11:20 **Coffee Break**

Wednesday Morning 2 (11:20-13:10)

- 11:20-12:05 **D. Gazit**, Hebrew University of Jerusalem
Theoretical aspects of Fundamental Interaction Studies
- 12:05-12:50 **A. Jokinen**, University of Jyväskylä
Jyvaskyla experiments
- 12:50-13:10 **S. Van Gorp**, RIKEN
Towards the production of anti-hydrogen beams
- 13:10-14:30 **Lunch Break**

Wednesday Afternoon 1 (14:30-16:20)

- 14:30-15:15 **S. Ulmer**, RIKEN Advanced Science Institute
The g factor of the p and anti-p
- 15:15-16:00 **A. Olin**, TRIUMF/U of Victoria
The α anti-H experiment
- 16:00-16:20 **E. Sarid**, NRCN, Israel
Antihydrogen Trapping and Resonant Interactions
- 16:20-16:50 **Coffee Break**

Wednesday Afternoon 2 (16:50-18:20)

- 16:50-17:35 **M. Snow**, Indiana University
Ultra Cold Neutrons
- 17:35-18:20 **O. Zimmer**, Institut Laue Langevin
Neutron trap experiments
- 19:00 **Conference banquet, Jubilee Plaza (Dwek Campus Center)**

Thursday, December 6

- 08:00 **Conference Excursion to Dead Sea and Jerusalem**