

Physics Prospects at the ESR and HITRAP

Report of Contributions

Contribution ID: 0

Type: **not specified**

Status of the ESR and Future Options

Monday, 28 June 2010 09:00 (30 minutes)

Presenter: M. STECK

Contribution ID: 1

Type: **not specified**

The HITRAP Linear Decelerator - Concept and Commissioning Results

Monday, 28 June 2010 09:30 (30 minutes)

Presenter: L. DAHL

Contribution ID: 2

Type: **not specified**

Orbital electron capture decay of stored highly charged ions

Monday, 28 June 2010 10:00 (20 minutes)

Presenter: N. WINCKLER

Contribution ID: 3

Type: **not specified**

Precision spectroscopy through Dielectronic Recombination - the role of calculations

Monday, 28 June 2010 10:20 (30 minutes)

Presenter: E. LINDROTH

Contribution ID: 4

Type: **not specified**

Off-resonant dielectronic recombination in a collision of an electron with a heavy hydrogen-like ion

Monday, 28 June 2010 10:50 (20 minutes)

Presenter: V. YEROKHIN

Contribution ID: 5

Type: **not specified**

Electron collision-spectroscopy of highly charged ions

Monday, 28 June 2010 11:30 (30 minutes)

Presenter: S. SCHIPPERS

Contribution ID: 6

Type: **not specified**

Dielectronic Recombination of Highly-Charged Radioisotopes at the ESR

Monday, 28 June 2010 12:00 (20 minutes)

Presenter: C. BRANDAU

Contribution ID: 7

Type: **not specified**

Electron collisions studies with M-shell iron ions motivated by astrophysics

Monday, 28 June 2010 12:20 (20 minutes)

Presenter: M. LESTINSKY

Contribution ID: 8

Type: **not specified**

Relativistic dynamics of slow highly-charged ions

Monday, 28 June 2010 12:40 (30 minutes)

Presenter: S. FRITZSCHE

Contribution ID: 9

Type: **not specified**

Atomic physics at ESR

Monday, 28 June 2010 14:30 (30 minutes)

Presenter: S. TROTSENKO

Contribution ID: **10**

Type: **not specified**

Characterization of the microdroplet beam source at the ESR

Monday, 28 June 2010 15:00 (20 minutes)

Presenter: N. PETRIDIS

Contribution ID: 11

Type: **not specified**

All optical Laser Cooling and Beam Diagnostics for Relativistic C³⁺ Ion Beams at ESR

Monday, 28 June 2010 15:20 (20 minutes)

Presenter: M. BUSSMANN

Contribution ID: 12

Type: **not specified**

Development of pulsed XUV und X-ray sources for spectroscopy of highly charged ions

Monday, 28 June 2010 15:40 (20 minutes)

Presenter: C. SPIELMANN

Contribution ID: 13

Type: **not specified**

Wartburg castle (meeting point at the castle!)

Monday, 28 June 2010 16:50 (1h 10m)

Contribution ID: 14

Type: **not specified**

workshop dinner

Monday, 28 June 2010 19:00 (2 hours)

Contribution ID: 15

Type: **not specified**

An Overview on the Physics Program of the Storage Particle Atomic Research Collaboration (SPARC)

Tuesday, 29 June 2010 09:00 (30 minutes)

Presenter: R. SCHUCH

Contribution ID: 16

Type: **not specified**

Surface nanostructures induced by slow highly charged ions

Tuesday, 29 June 2010 09:30 (30 minutes)

Presenter: S. FACSKO

Contribution ID: 17

Type: **not specified**

Towards surface experiments at HITRAP

Tuesday, 29 June 2010 10:00 (20 minutes)

Presenter: E. BODEWITS

Contribution ID: **18**

Type: **not specified**

Ionization of atoms and molecules by ion impact

Tuesday, 29 June 2010 10:20 (20 minutes)

Presenter: D. FISCHER

Contribution ID: 19

Type: **not specified**

Investigation of multiple charged transfer using an ultracold target

Tuesday, 29 June 2010 10:40 (20 minutes)

Presenter: S. GÖTZ

Contribution ID: **20**

Type: **not specified**

A pulsed supersonic gas jet target for HITRAP

Tuesday, 29 June 2010 11:30 (20 minutes)

Presenter: K. STIEBING

Contribution ID: 21

Type: **not specified**

Trap-assisted precision spectroscopy of highly-charged ions

Tuesday, 29 June 2010 11:50 (20 minutes)

Presenter: M. VOGEL

Contribution ID: 22

Type: **not specified**

Characterization of LN2 cooled APDs for Single Photon Counting Applications

Tuesday, 29 June 2010 12:10 (20 minutes)

Presenter: R. JÖHREN

Contribution ID: 23

Type: **not specified**

Test of Time Dilation by Laser Spectroscopy

Tuesday, 29 June 2010 12:30 (30 minutes)

Presenter: W. NÖRTERSHÄUSER

Contribution ID: 25

Type: **not specified**

Accurate spectroscopy of excited levels in He-like uranium at the ESR

Tuesday, 29 June 2010 13:00 (20 minutes)

Presenter: M. TRASSINELLI

Contribution ID: 26

Type: **not specified**

Proton-induced reactions at the ESR

Tuesday, 29 June 2010 14:30 (20 minutes)

Presenter: R. REIFARTH

Contribution ID: 27

Type: **not specified**

Microcalorimeters for spectroscopy of highly-charged ions

Tuesday, 29 June 2010 14:50 (20 minutes)

Presenter: S. KRAFT-BERMUTH

Contribution ID: 28

Type: **not specified**

Fundamental Processes studied via Electron Spectroscopy in Heavy-Ion Storage Rings

Tuesday, 29 June 2010 15:10 (20 minutes)

Presenter: S. HAGMANN

Contribution ID: 29

Type: **not specified**

Towards exploration of overcritical fields in superheavy quasimolecules - inner shell vacancy transfer investigated in heavy ion-atom collisions

Tuesday, 29 June 2010 15:30 (20 minutes)

Presenter: P. VERMA

Contribution ID: **30**

Type: **not specified**

Upcoming Studies of Heavy Quasi-Molecular Systems at the ESR

Tuesday, 29 June 2010 15:50 (20 minutes)

Presenter: R. DUBOIS

Contribution ID: **31**

Type: **not specified**

Poster Session

Tuesday, 29 June 2010 16:30 (1h 30m)

Contribution ID: 32

Type: **not specified**

Exploring the age and history of our galaxy with the ESR: Are nuclear cosmic clocks trustworthy? Was the formation of our solar system escorted by the outbreak of a neighbouring supernova?

Tuesday, 29 June 2010 19:30 (1 hour)

Presenter: F. BOSCH

Contribution ID: 33

Type: **not specified**

The future is FAIR

Wednesday, 30 June 2010 09:00 (30 minutes)

Presenter: S. RICHTER

Contribution ID: 34

Type: **not specified**

Realisation of an RIB electron collider setup (ELISE)

Wednesday, 30 June 2010 09:30 (30 minutes)

Presenter: H. SIMON

Contribution ID: 35

Type: **not specified**

The EXL experiment at FAIR and the ESR plans

Wednesday, 30 June 2010 10:00 (30 minutes)

Presenter: N. KALANTAR

Contribution ID: 36

Type: **not specified**

Storage Ring Vacuum Solution for EXL-Silicon-Particle-Aray

Wednesday, 30 June 2010 10:30 (20 minutes)

Presenter: B. STREICHER

Contribution ID: 37

Type: **not specified**

Concluding remarks

Wednesday, 30 June 2010 10:50 (15 minutes)

Presenter: R. HOEKSTRA