

HOHENRODA/ GERMANY

EURORIB¹⁵

7th – 12th JUNE, 2015

European Radioactive Ion Beam Conference 2015

PROGRAMME

Conference Programme

Sunday 7 June 2015

Registration (17:00-19:00) – Hotel reception desk

Welcome Reception and Dinner (19:30-21:30) – Dining Room

Monday 8 June 2015

Nuclear structure far from stability 1 (09:00-10:50)

09:00 *Welcome (10')* SCHEIDENBERGER, Christoph (GSI, Darmstadt)

09:10 Nuclear forces and their impact on matter at neutron-rich extremes (30') SCHWENK, Achim (TU Darmstadt)

09:40 Nuclear Structure far from Stability, latest results from MINOS at RIKEN (30') OBERTELLI, Alexandre (CEA Saclay)

10:10 Structure of low-lying states in ^{140}Sm studied by Coulomb excitation (20') KLINTEFJORD, Malin (University of Oslo)

10:30 Structure beyond the $N=50$ shell closure in neutron-rich nuclei in the vicinity of ^{78}Ni : The case of $N=51$ nuclei (20') DUCHENE, Gilbert (IPHC/CNRS - University of Strasbourg)

Coffee break (10:50-11:20)

Heavy and superheavy nuclei (11:20-13:00)

11:20 SHE synthesis experiments at Dubna (30') YEREMIN, Alexander (Joint Institute for Nuclear Research)

11:50 Mass spectrometry and laser spectroscopy of the heaviest elements (30') BLOCK, Michael (GSI, Darmstadt)

12:20 In gas laser ionization and spectroscopy of actinium isotopes (20') GRANADOS, Camilo (KU Leuven)

12:40 Experiments with ^{238}U projectile and fission fragments at the FRS Ion Catcher (20') EBERT, Jens (GSI, Darmstadt and Justus Liebig Universität, Giessen)

Lunch break (13:00-14:30) – Dining Room

Reactions with radioactive beams (14:30-16:00)

14:30 Recent Reaction Dynamics Studies with light RIBs at Coulomb Barrier Energies (30') MAZZOCCO, Marco (University of Padova and INFN - Sezione di Padova)

15:00 Study of neutron-proton pairing in $N=Z$ unstable nuclei through transfer reactions (20') LE CROM, Benjamin (Institut de Physique Nucléaire d'Orsay)

15:20 Analysis of reactions induced by the halo nucleus ^6He at energies around the Coulomb barrier (20') FERNÁNDEZ-GARCÍA, Juan Pablo (INFN - LNS)

15:40 Isospin influence on the decay modes of systems produced in the $^{78,86}\text{Kr}+^{40,48}\text{Ca}$ reactions at 10AMeV (20') GNOFFO, Brunilde (INFN sez Catania)

Coffee break (16:00-16:30)

At and beyond the dripline and new modes of radioactivity (16:30-18:10)

- 16:30 Proton emission - new results and future prospects (30') PAGE, Robert (University of Liverpool)
17:00 Future Perspectives with R3B (30') BORETZKY, Konstanze (GSI Darmstadt)
17:30 Two-proton Decays of the ^{17}Ne Low-lying States (20') SHAROV, Pavel (JINR)
17:50 Search for Two-Proton Radioactivity of ^{30}Ar by Tracking its Decay Products (20') XU, Xiaodong (GSI, Darmstadt and Justus-Liebig-Universität Gießen)

Exhibition of industrial partners (18:10-20:00)

Dinner (20:00-21:30) – Lecture Hall (“Partyscheune”)

Tuesday 9 June 2015

Nuclear structure far from stability 2 (09:00-10:50)

- 09:00 A Decade of Nuclear Structure studies with post-accelerated european RIB (30') CLEMENT, Emmanuel (CNRS/GANIL)
09:30 Identification of deformed intruder states in semi-magic $^{70,72}\text{Ni}$ (20') WALTERS, William (University of Maryland)
09:50 INVESTIGATION OF THE BETA-DECAY CHAIN $^{70}\text{Fe} \rightarrow ^{70}\text{Co} \rightarrow ^{70}\text{Ni}$ (20') MORALES LOPEZ, Ana Isabel (Università degli Studi di Milano - INFN Milano)
10:10 High-resolution CRIS and the secrets of ^{206}Fr (20') LYNCH, Kara (ISOLDE, CERN)
10:30 Magnetic moment in self-conjugate ^{24}Mg . Towards high-precision measurements of picosecond excited states with RIB. (20') GEORGIEV, Georgi (CSNSM Orsay)

Coffee break (10:50-11:20)

Application of nuclear physics to other fields (11:20-12:40)

- 11:20 Applications based on nuclear physics impacting our society (30') ENGERT, Tobias (GSI, Darmstadt)
11:50 ViTO experiment at ISOLDE-CERN (30') STACHURA, Monika (TRIUMF/CERN)
12:20 MR-TOF-MS for nuclear physics facilitate a new class of experiments in analytical mass spectrometry (20') DICKEL, Timo (GSI, Darmstadt)

Lunch break (12:40-14:30) – Dining Room

Future RIB facilities 1: Facility concert (part 1) (14:30-16:00)

- 14:30 GANIL/SPIRAL2 facility – Status and Future (30') SAVAJOLS, Hervé (GANIL)
15:00 EURISOL Distributed Facility: Paving the way towards the ultimate ISOL facility for EUROPE (30') BLUMENFELD, Yorick (IPN Orsay, IN2P3-CNRS, Université Paris-Sud)
15:30 Exploring the extremes with NUSTAR@FAIR (30') KALANTAR-NAYESTANAKI, Nasser (KVI-CART / Univ. Groningen)

Coffee break (16:00-16:30)

Future RIB facilities 2: Facility concert (part 2) (16:30-17:30)

16:30 News from ISOLDE and HIE-ISOLDE (30') KOWALSKA, Magdalena (ISOLDE-CERN)

17:00 The SPES project at the INFN- Laboratori Nazionali di Legnaro (30') PRETE, Gianfranco (INFN-LNL)

Future RIB facilities: Round table discussion (17:30-18:30)

Poster session (18:30-20:00)

Dinner (20:00-21:30) – Lecture Hall (“Partyscheune”)

Wednesday 10 June 2015

Future RIB facilities 3 (09:00-10:30)

09:00 Future Opportunities at RIB facilities in North America (30') DILLING, Jens (TRIUMF and UBC)

09:30 Overview of Rare Isotope Beam Facilities in Asia (30') JEONG, Sunchan (Rare Isotope Science Project, Institute for Basic Science)

10:00 RIIB facilities in Japan (30') MOTOBAYASHI, Tohru (RIKEN Nishina Center)

Coffee break (10:30-11:00)

Future RIB facilities 4 (11:00-12:00)

11:00 Photofission experiments at the ELI-NP facility (20') CONSTANTIN, Paul (ELI-NP, IFIN-HH)

11:20 Present and Planned Experiments with the FRS and Super-FRS (20') GEISSEL, Hans (GSI and Univ. Gießen)

11:40 The ISOL@MYRRHA Project in Belgium (20') SCHUURMANS, Paul (SCK-CEN)

Lunch (12:00-13:30) – Dining Room

Excursion (13:30-19:30)

Dinner (19:30-21:00) – Beer Garden

Thursday 11 June 2015

Dynamics and thermodynamics of exotic nuclear systems (09:00-09:50)

09:00 Recent theoretical and experimental advances on giant resonances in unstable nuclei (30') KHAN, Elias (IPN Orsay)

09:30 Pygmy resonances and radiative nucleon captures for stellar nucleosynthesis (20') TSONEVA, Nadia (Institut für Theoretische Physik, Univ. Gießen)

Nuclear astrophysics (09:50-10:40)

- 09:50 Nuclear Astrophysics and Stellar Explosions (30') JOSE, Jordi (UPC Barcelona)
10:20 Recent ISOLTRAP mass measurements of medium-mass, neutron-rich nuclides in the 50-ms-half-life range (20') MANEA, Vladimir (Max-Planck-Institute for Nuclear Physics, Heidelberg)

Coffee break (10:40-11:10)

Production and manipulation of RIB (11:10-12:10)

- 11:10 Manipulations of the high power targets and its infrastructure: preparations, operations and maintenances (30') FRÅNBERG-DELAHAYE, Hanna (GANIL)
11:40 Citius, altius, fortius - is the EBIS/T charge breeder up for the challenge? (30') WENANDER, Fredrik (CERN)

Nuclear structure far from stability 3 (12:10-13:00)

- 12:10 Progress and Recent Results from Collinear Laser Spectroscopy at ALTO and ISOLDE-CERN (30') YORDANOV, Deyan (IPN Orsay)
12:40 Spins and g-factors of Mn isotopes near N = 40: Significance of proton and neutron excitations in ground and isomeric states (20') HEYLEN, Hanne (KU Leuven)

Lunch break (13:00-14:30) - Lecture Hall ("Partyscheune")

Nuclear structure far from stability 4 (14:30-16:00)

- 14:30 The study of nuclear structure far from stability at the IGISOL-4 facility (30') MOORE, Iain (University of Jyväskylä)
15:00 ^{10}Be and ^{16}C structures investigated by means of break-up reactions at INFN-LNS (20') DELL'AQUILA, Daniele (Università degli Studi di Napoli "Federico II" and INFN – Sezione di Napoli)
15:20 Single particle structures of ^{19}C and ^{23}O (20') SATOU, Yoshiteru (Seoul National University)
15:40 Beta-delayed Neutron spectroscopy of Ga isotopes beyond the N=50 shell closure (20') MADURGA FLORES, Miguel (CERN)

Poster Prize Talks (16:00-16:30)

Coffee break (16:30-17:00)

Conference Dinner (19:00-21:30) – Dining Room

Friday 12 June 2015

Instrumentation (09:00-10:40)

- 09:00 Gamma-ray tracking with AGATA a new perspective for spectroscopy at RIB facilities (30') REITER, Peter (University of Cologne)
- 09:30 Active targets for research on exotic nuclei (30') RAABE, Riccardo (KU Leuven)
- 10:00 TRIGA-SPEC – recent developments and status (20') KAUFMANN, Simon (Institut für Kernchemie Uni-Mainz)
- 10:20 In-Trap Decay Spectroscopy for Electron Capture Branching Ratios using TITAN at TRIUMF (20') ANDREOIU, Corina (Simon Fraser University)

Coffee break (10:40-11:10)

Instrumentation and fundamental interactions (11:10-13:00)

- 11:10 The FAZIA telescope: from detectors to data flow (20') VALDRÉ, Simone (INFN - Sezione di Firenze)
- 11:30 In-Source Laser Spectroscopy with the Laser Ion Source and Trap for the Study of Neutron-Rich Polonium (20') FINK, Daniel (CERN)
- 11:50 Penning-trap mass spectrometry for neutrino physics (30') ELISEEV, Sergey (Max-Planck Institut für Kernphysik, Heidelberg)
- 12:20 High precision measurements in mirror beta decays at GANIL (30') LIÉNARD, Etienne (LPC Caen)
- 12:50 *Closing remarks (10') SCHEIDENBERGER, Christoph (GSI, Darmstadt)*

Lunch/Departure (13:00-14:30) – Dining Room