

**16th International Conference
on Electromagnetic Isotope
Separators and Techniques
Related to their Applications
(EMIS2012)**

Report of Contributions

Contribution ID: 7

Type: **Oral session**

Development of target ion sources systems for radioactive beams at GANIL

Tuesday, 4 December 2012 10:10 (20 minutes)

Primary author: Mr BAJEAT, Olivier (GANIL)

Co-authors: Mr OSMOND, Benoit (GANIL); Ms COURATIN, Claire (LPC); Mrs FRANBERG, Hanna (GANIL); Dr MAUNOURY, Laurent (GANIL); Mr DUBOIS, Mickael (GANIL); Mrs LECESNE, Nathalie (GANIL); Mr JARDIN, Pascal (GANIL); Mr LECOMTE, Patrice (GANIL); Mr DELAHAYE, Pierre (GANIL); Dr LEROY, Renan (GANIL); Mr HUGUET, Yves (GANIL); Dr SJODIN, marica (ganil)

Presenter: Mr BAJEAT, Olivier (GANIL)

Session Classification: Session III

Track Classification: Target techniques and ion sources

Contribution ID: 9

Type: **Oral session**

JYFLTRAP status report

*Friday, 7 December 2012 09:00 (20 minutes)***Primary author:** Dr KOLHINEN, Veli (University of Jyväskylä)**Co-authors:** Dr SAASTAMOINEN, Antti (Texas A&M University); Mrs KANKAINEN, Anu (University of Jyväskylä); Prof. JOKINEN, Ari (University of Jyväskylä); Mr GORELOV, Dmitry (University of Jyväskylä); Dr PENTTILÄ, Heikki (University of Jyväskylä); Mr KULMALA, Henri (University of Jyväskylä); Dr MOORE, Iain (University of Jyväskylä); Mr POHJALAINEN, Ilkka (University of Jyväskylä); Mr HAKALA, Jani (University of Jyväskylä); Prof. ÄYSTÖ, Juha (University of Helsinki); Dr RISSANEN, Juho (Lawrence Berkeley National Laboratory); Mr KOPONEN, Jukka (University of Jyväskylä); Ms JOKIRANTA, Kaisa (University of Jyväskylä); Mr RYTKÖNEN, Kari (University of Jyväskylä); Mr REPONEN, Mikael (University of Jyväskylä); Mr KOIKKALAINEN, Mikko (University of Jyväskylä); Dr RINTA-ANTILA, Sami (University of Jyväskylä); Dr ERONEN, Tommi (MPI für Kernphysik, Heidelberg); Mr PIKKARAINEN, Toni (University of Jyväskylä); Mr SONNENSCHEIN, Volker (University of Jyväskylä)**Presenter:** Dr KOLHINEN, Veli (University of Jyväskylä)**Session Classification:** Session VIII**Track Classification:** Traps and laser techniques

Contribution ID: 16

Type: **Oral session**

Recent developments and research projects at the low-energy RI beam facility CRIB

Wednesday, 5 December 2012 11:20 (20 minutes)

Primary author: Dr YAMAGUCHI, Hidetoshi (CNS, the University of Tokyo)

Co-authors: Mr KAHL, Daid (CNS, the University of Tokyo); Dr NAKAO, Taro (CNS, the University of Tokyo)

Presenter: Dr YAMAGUCHI, Hidetoshi (CNS, the University of Tokyo)

Session Classification: Session V

Track Classification: In-flight separators and storage rings

Contribution ID: 24

Type: **Oral session**

Status of the project TRAPSENSOR: Weighing Nuclei with Photons

Thursday, 6 December 2012 15:00 (20 minutes)

Primary author: Prof. RODRÍGUEZ, Daniel (Departamento de Física Atómica Molecular y Nuclear, Universidad de Granada, Spain)

Co-authors: Mr LORENZO, Antonio (Departamento de Física Atómica Molecular y Nuclear, Universidad de Granada, Spain); Mr CORNEJO, Juan Manuel (Departamento de Física Atómica Molecular y Nuclear, Universidad de Granada, Spain); Dr BLOCK, Michael (GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany); Dr SÁNCHEZ, Rodolfo (GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany)

Presenter: Prof. RODRÍGUEZ, Daniel (Departamento de Física Atómica Molecular y Nuclear, Universidad de Granada, Spain)

Session Classification: Session VII

Track Classification: Mass spectrometry

Contribution ID: 27

Type: **Invited**

Lasers in gas cells and jets for the production and spectroscopy of exotic nuclei

Wednesday, 5 December 2012 09:00 (30 minutes)

Primary author: Prof. HUYSE, Mark (KU Leuven)

Presenter: Prof. HUYSE, Mark (KU Leuven)

Session Classification: Session V

Contribution ID: 28

Type: **Invited**

High Intensity Beam Handling for Nuclear and Particle Physics

Thursday, 6 December 2012 09:50 (30 minutes)

Primary author: Prof. TANAKA, Kazuhiro (KEK)

Presenter: Prof. TANAKA, Kazuhiro (KEK)

Session Classification: Session VI

Track Classification: Techniques related to high-power beams

Contribution ID: 29

Type: **Oral session**

Commissioning Results of the EBIT Charge Breeder of ReA at NSCL: First Reacceleration of Stable Beams

Primary author: Dr LAPIERRE, Alain (National Superconducting Cyclotron Laboratory)

Presenter: Dr LAPIERRE, Alain (National Superconducting Cyclotron Laboratory)

Track Classification: Preparation of energetic radioactive beams

Contribution ID: 31

Type: **Invited**

Nuclear Radioactive Methods in Materials and Biophysics Research

Friday, 7 December 2012 11:50 (30 minutes)

Primary author: Dr MARTINS CORREIA, João Guilherme (IST/ITN, Instituto Superior Técnico, Universidade Técnica de Lisboa)

Co-author: Dr JOHNSTON, Karl (Technische Physik, Universität des Saarlandes, 66041 Saarbrücken, Germany)

Presenter: Dr MARTINS CORREIA, João Guilherme (IST/ITN, Instituto Superior Técnico, Universidade Técnica de Lisboa)

Session Classification: Session VIII

Track Classification: Applications

Contribution ID: 32

Type: **Oral session**

Precision Mass Measurements at TITAN with Radioactive Ions

*Thursday, 6 December 2012 15:20 (20 minutes)***Primary author:** Dr KWIATKOWSKI, Anna A. (TRIUMF)**Co-authors:** GALLANT, Aaron T. (University of British Columbia and TRIUMF); Dr GROSSHEIM, Alexander (TRIUMF); Dr CHAUDHURI, Ankur (TRIUMF); LENNARZ, Annika (Westfälische Wilhelms-Universität and TRIUMF); Dr SCHULTZ, Bradley E. (TRIUMF); Prof. ANDREOIU, Corina (Simon Fraser University); Dr MANE, Ernesto (TRIUMF); BALE, Jeffrey C. (Simon Fraser University); Prof. DILLING, Jens (TRIUMF and University of British Columbia); Dr SIMON, Martin C. (TRIUMF); Dr PEARSON, Matthew R. (TRIUMF); MACDONALD, Tegan (TRIUMF and University of British Columbia); Dr BRUNNER, Thomas (Stanford University); CHOWDHURY, Usman (University of Manitoba and TRIUMF); SIMON, Vanessa V. (Ruprecht-Karls-Universität and Max-Planck-Institut für Kernphysik and TRIUMF)**Presenter:** Dr KWIATKOWSKI, Anna A. (TRIUMF)**Session Classification:** Session VII**Track Classification:** Mass spectrometry

Contribution ID: 33

Type: **Oral session**

Superheavy element research at the gas-filled recoil separator TASCA

Monday, 3 December 2012 14:00 (20 minutes)

Primary author: Dr YAKUSHEV, Alexander (GSI Darmstadt, Germany)

Co-author: TASCA, collaboration (GSI Darmstadt)

Presenter: Dr YAKUSHEV, Alexander (GSI Darmstadt, Germany)

Session Classification: Session II

Track Classification: In-flight separators and storage rings

Contribution ID: 34

Type: **Oral session**

SPIRAL2/DESIR High Resolution Separator

Tuesday, 4 December 2012 17:00 (20 minutes)

Primary authors: Dr BLANK, Bertram (CENBG/CNRS/IN2P3-Université Bordeaux 1); Dr SERANI, Laurent (CENBG/CNRS/IN2P3-Université Bordeaux 1); Dr KURTUKIAN NIETO, Teresa (CENBG/CNRS/IN2P3-Université Bordeaux 1)

Co-authors: Mrs FOURNIER, A (CENBG/CNRS/IN2P3-Université Bordeaux 1); Dr DAVIDS, C. (ANL); Dr LUNNEY, D. (CSNSM Orsay); Dr MÉOT, F (BNL); Mr DELALEE, F. (CENBG/CNRS/IN2P3-Université Bordeaux 1); Dr VARENNE, Franck (GANIL); Dr WEICK, H. (GSI); Mr DUVAL, M. (GANIL); Mr STODEL, M.-H. (GANIL); Mr EL ABBEIR, S. (CENBG/CNRS/IN2P3-Université Bordeaux 1); Mr CHIRON, Thierry (CENBG/CNRS/IN2P3-Université Bordeaux 1)

Presenter: Dr KURTUKIAN NIETO, Teresa (CENBG/CNRS/IN2P3-Université Bordeaux 1)

Session Classification: Session IV

Track Classification: Ion optics and spectrometers

Contribution ID: 35

Type: **Oral session**

Commissioning of the new IGISOL-IV facility

Tuesday, 4 December 2012 15:00 (20 minutes)

Primary author: Dr MOORE, Iain (University of Jyväskylä)

Co-authors: Dr KANKAINEN, Anu (University of Jyväskylä); Prof. JOKINEN, Ari (University of Jyväskylä); Mr GORELOV, Dimitry (University of Jyväskylä); Dr PENTTILÄ, Heikki (University of Jyväskylä); Mr POHJALAINEN, Ilkka (University of Jyväskylä); Mr HAKALA, Jani (University of Jyväskylä); Prof. ÄYSTÖ, Juha (University of Helsinki); Mr REPONEN, Mikael (University of Jyväskylä); Dr RINTA-ANTILA, Sami (University of Jyväskylä); Mr SONNENSCHNEIN, Volker (University of Jyväskylä)

Presenter: Dr MOORE, Iain (University of Jyväskylä)

Session Classification: Session IV

Track Classification: Ion guides and gas jets

Contribution ID: 36

Type: **Oral session**

In-Gas Laser Ionization and Spectroscopy (IGLIS) of radioactive atoms at LISOL

Wednesday, 5 December 2012 09:30 (20 minutes)

Primary author: Dr KUDRYAVTSEV, Yuri (IKS, KU Leuven)

Co-authors: Mrs VAN BEVEREN, Celine (IKS, KU Leuven); Mr RADULOV, Deyan (IKS, KU Leuven); Dr PAUWELS, Dieter (IKS, KU Leuven); Mr GHYS, Lars (IKS, KU Leuven); Mrs RENS, Lieve (IKS, KU Leuven); Prof. HUYSE, Mark (KU Leuven); Mr VAN DEN BERGH, Paul (IKS, KU Leuven); Prof. VAN DUPPEN, Piet (IKS, KU Leuven); Dr FERRER, Rafael (Instituut voor Kern- en Stralingsfysica, KU Leuven)

Presenter: Dr KUDRYAVTSEV, Yuri (IKS, KU Leuven)

Session Classification: Session V

Track Classification: Traps and laser techniques

Contribution ID: 39

Type: **Oral session**

ISOLTRAP reaches a new era of mass spectrometry

*Thursday, 6 December 2012 14:20 (20 minutes)***Primary author:** Dr KREIM, Susanne (CERN)

Co-authors: Dr HERLERT, Alexander (FAIR GmbH, Darmstadt, Germany); Mrs BÖHM, Christine (Max-Planck-Institut für Kernphysik, Heidelberg, Germany); Mr BORGMANN, Christopher (Max-Planck-Institut für Kernphysik, Heidelberg, Germany); Dr LUNNEY, Dave (CSNSM-IN2P3-CNRS, Université de Paris Sud, Orsay, France); Dr NEIDHERR, Dennis (GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany); Dr BECK, Dietrich (GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany); Dr MINAYA-RAMIREZ, Enrique (GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany); Dr HERFURTH, Frank (GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany); Mr WIENHOLTZ, Frank (Ernst-Moritz-Arndt-Universität, Greifswald, Germany); Ms STANJA, Juliane (Technical University Dresden, Dresden, Germany); Prof. ZUBER, Kai (Technical University Dresden, Dresden, Germany); Prof. BLAUM, Klaus (Max-Planck-Institut für Kernphysik, Heidelberg, Germany); Prof. SCHWEIKHARD, Lutz (Ernst-Moritz-Arndt-Universität, Greifswald, Germany); Dr KOWALSKA, Magdalena (CERN, Geneva, Switzerland); Mr ROSENBUSCH, Marco (Ernst-Moritz-Arndt-Universität, Greifswald, Germany); Dr BREITENFELDT, Martin (Instituut voor Kern- en Stralingsfysica, Leuven, Belgium); Dr CAKIRLI, R. Burcu (Max-Planck-Institut für Kernphysik, Heidelberg, Germany); Mr WOLF, Robert Norbert (Ernst-Moritz-Arndt-Universität, Greifswald, Germany); Dr NAIMI, Sarah (RIKEN Research Facility, Japan); Dr GEORGE, Sebastian (Ernst-Moritz-Arndt-Universität, Greifswald, Germany); Dr ELISEEV, Sergey (Max-Planck-Institut für Kernphysik, Heidelberg, Germany); Dr SCHWARZ, Stefan (NSCL, Michigan State University, East Lansing, USA); Dr COCOLIOS, Thomas Elias (CERN, Geneva, Switzerland); Mr MANEA, Vladimir (CSNSM-IN2P3-CNRS, Université de Paris Sud, Orsay, France); Prof. LITVINOV, Yuri (GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany)

Presenter: Dr KREIM, Susanne (CERN)**Session Classification:** Session VII**Track Classification:** Mass spectrometry

Contribution ID: 41

Type: **Invited**

Recent highlights in Penning-trap mass spectrometry

Thursday, 6 December 2012 13:50 (30 minutes)

Primary author: Dr NAGY, Szilard (Max Planck Institute for Nuclear Physics)

Presenter: Dr NAGY, Szilard (Max Planck Institute for Nuclear Physics)

Session Classification: Session VII

Contribution ID: 44

Type: **Oral session**

The ANURIB project at VECC –Plans and Preparations

Friday, 7 December 2012 16:50 (20 minutes)

Primary author: Dr NAIK, VAISHALI (VECC)

Co-authors: Dr CHAKRABARTI, ALOK (VECC/DAE); Dr BANDYOPADHYAY, ARUP (VECC/DAE)

Presenter: Dr YALAGOUD, Nabhiraj (Variable Energy Cyclotron Centre)

Session Classification: Session IX

Track Classification: Facility initiatives

Contribution ID: 47

Type: **Invited**

Recoil Separators for Nuclear Astrophysics studies

Wednesday, 5 December 2012 10:50 (30 minutes)

Primary author: Dr COUDER, Manoel (University of Notre Dame - JINA)

Co-author: Dr BERG, Georg (University of Notre Dame)

Presenter: Dr COUDER, Manoel (University of Notre Dame - JINA)

Session Classification: Session V

Contribution ID: 48

Type: **Oral session**

New Experimental Perspectives with the Fragment Separator Super-FRS and Its Combination with High-Resolution Spectrometers

Monday, 3 December 2012 10:10 (20 minutes)

Primary author: Prof. GEISSEL, Hans (GSI)

Presenter: Prof. GEISSEL, Hans (GSI)

Session Classification: Session I

Track Classification: In-flight separators and storage rings

Contribution ID: 49

Type: **Oral session**

Traveling wave ion transport for the NSCL cyclotron gas stopper

Tuesday, 4 December 2012 16:00 (20 minutes)

Primary author: Dr BRODEUR, Maxime (NSCL/MSU)

Co-authors: Mrs GEHRING, Amanda (NSCL/MSU); Prof. MORRISSEY, David J. (NSCL/MSU); Prof. BOLLEN, Georg (NSCL/MSU); Dr JOSHI, Ninad (NSCL/MSU); Dr SCHWARZ, Stefan (NSCL / Michigan State University)

Presenter: Dr BRODEUR, Maxime (NSCL/MSU)

Session Classification: Session IV

Track Classification: Ion guides and gas jets

Contribution ID: 52

Type: **Oral session**

SHARQA spectrometer for high-resolution studies of RI-induced reactions

Tuesday, 4 December 2012 17:20 (20 minutes)

Primary author: Dr MICHIMASA, Shin'ichiro (Center for Nuclear Study, Univ. of Tokyo)

Presenter: Dr MICHIMASA, Shin'ichiro (Center for Nuclear Study, Univ. of Tokyo)

Session Classification: Session IV

Track Classification: Ion optics and spectrometers

Contribution ID: 55

Type: **Oral session**

A Novel Nuclear Laser Spectroscopy Method using Superfluid Helium for the Measurement of Spins and Moments of Exotic Nuclei

*Thursday, 6 December 2012 11:30 (20 minutes)***Primary author:** Dr FURUKAWA, Takeshi (Tokyo metropolitan University)**Co-authors:** Prof. HATAKEYAMA, Atsushi (Tokyo University of Agriculture and Technology); Ms SHIRAI, Hazuki (Tokyo Institute of Technology); Dr UENO, Hideki (RIKEN Nishina Center); Mr TETSUKA, Hiroki (Tokyo Gakugei University); Mr IMAMURA, Kei (Meiji University); Dr YONEDA, Ken-ichiro (RIKEN Nishina Center); Prof. ASAHI, Koichiro (Tokyo Institute of Technology); Dr WADA, Michiharu (RIKEN Nishina Center); Ms HAYASAKA, Miki (Tokyo Gakugei University); Dr NISHIMURA, Mizuki (RIKEN Nishina Center); Mr YOSHIDA, Naoki (Tokyo Institute of Technology); Prof. KUBONO, Shigeru (CNS, University of Tokyo); Ms ARAI, Shino (Meiji University); Dr NISHIMURA, Shunji (RIKEN Nishina Center); Mr MURAMOTO, Sosuke (Meiji University); Prof. SHIMODA, Tadashi (Osaka University); Prof. WAKUI, Takashi (CYRIC, Tohoku University); Dr SONODA, Tetsu (RIKEN Nishina Center); Dr KOBAYASHI, Tohru (RIKEN ASI); Ms FUJITA, Tomomi (Osaka University); Prof. SHINOZUKA, Tsutomu (CYRIC, Tohoku University); Ms YANG, Xiaofei (RIKEN Nishina Center); Mr YAMAGUCHI, Yasuhiro (Meiji University); Ms ISHIBASHI, Yoko (RIKEN Nishina Center); Mr TSUTSUI, Yoshiki (Tokyo Gakugei University); Prof. KONDO, Yosuke (Tokyo Institute of Technology); Mr MITSUYA, Yosuke (Meiji University); Prof. ICHIKAWA, Yuichi (Tokyo Institute of Technology); Dr MATSUO, Yukari (RIKEN Nishina Center); Dr OHSHIRO, Yukimitsu (CNS, University of Tokyo); Mr EBARA, Yuta (Tokyo Gakugei University); Mr ITO, Yuta (RIKEN Nishina Center)**Presenter:** Dr FURUKAWA, Takeshi (Tokyo metropolitan University)**Session Classification:** Session VI**Track Classification:** Traps and laser techniques

Contribution ID: 58

Type: **Invited**

ECRIS and EBIS charge state breeders: Present performances, future potentials

Tuesday, 4 December 2012 10:50 (30 minutes)

Primary author: Dr DELAHAYE, Pierre (GANIL)

Presenter: Dr DELAHAYE, Pierre (GANIL)

Session Classification: Session III

Contribution ID: 66

Type: **Oral session**

The FRS Ion Catcher - A Facility for High-Precision Experiments With Stopped Projectile and Fission Fragments

*Tuesday, 4 December 2012 15:20 (20 minutes)***Primary author:** Dr PLASS, Wolfgang (GSI Darmstadt)**Co-authors:** Dr ESTRADA, Alfredo (GSI Darmstadt); Dr PROCHAZKA, Andrej (GSI Darmstadt); Ms RINK, Ann-Kathrin (Justus-Liebig-Universität Gießen); Dr NOCIFORO, Chiara (GSI Darmstadt); Mr JESCH, Christian (Justus-Liebig-Universität Gießen); Prof. SCHEIDENBERGER, Christoph (GSI Darmstadt); Dr HAETTNER, Emma (Justus-Liebig-Universität Gießen); Dr FARINON, Fabio (GSI Darmstadt); Mr AMJAD, Faraz (GSI Darmstadt); Mr GREINER, Florian (Justus-Liebig-Universität Gießen); Prof. GEISSEL, Hans (GSI Darmstadt); Dr WEICK, Helmut (GSI Darmstadt); Dr MOORE, Iain (University of Jyväskylä); Dr KURCEWICZ, Jan (GSI Darmstadt); Mr EBERT, Jens (Justus-Liebig-Universität Gießen); Mr LANG, Johannes (Justus-Liebig-Universität Gießen); Dr WINFIELD, John (GSI Darmstadt); Dr RANJAN, Manisha (KVI, University of Groningen); Mr DIWISCH, Marcel (Justus-Liebig-Universität Gießen); Prof. PFUETZNER, Marek (GSI Darmstadt); Dr PETRICK, Martin (Justus-Liebig-Universität Gießen); Dr TAKECHI, Maya (GSI Darmstadt); Prof. YAVOR, Mikhail (Institute for Analytical Instrumentation, RAS, St. Petersburg); Mr REITER, Moritz Pascal (Justus-Liebig-Universität Gießen); Prof. KALANTAR-NAYESTANAKI, Nasser (KVI, University of Groningen); Dr DENDOOVEN, Peter (KVI, University of Groningen); Dr KNOEBEL, Ronja (Justus-Liebig-Universität Gießen); Dr RINTA-ANTILA, Sami (University of Jyväskylä); Mr AYET, Samuel (GSI Darmstadt); Dr PURUSHOTHAMAN, Sivaji (GSI Darmstadt); Dr PIETRI, Stephane (GSI Darmstadt); Dr DICKEL, Timo (GSI Darmstadt); Ms TANAKA, Yoshiki (GSI Darmstadt)**Presenter:** Dr PLASS, Wolfgang (GSI Darmstadt)**Session Classification:** Session IV**Track Classification:** Ion guides and gas jets

Contribution ID: 69

Type: **Oral session**

Automatic tuning of complex beam-lines

Tuesday, 4 December 2012 11:50 (20 minutes)

Primary author: Dr GILES, Tim (CERN)

Co-author: Mr PISELLI, Emiliano (CERN)

Presenter: Dr GILES, Tim (CERN)

Session Classification: Session III

Track Classification: Ion optics and spectrometers

Contribution ID: 70

Type: **Oral session**

The NSCL Cyclotron Gas Stopper - Under Construction

Tuesday, 4 December 2012 15:40 (20 minutes)

Primary author: Dr SCHWARZ, Stefan (NSCL / Michigan State University)

Co-authors: Dr ZELLER, Al (NSCL / MSU); Ms GEHRING, Amanda (NSCL / MSU); Prof. MORRISSEY, David (NSCL / MSU); Prof. BOLLEN, Georg (NSCL / MSU); Mr OTTARSON, Jack (NSCL / MSU); Mr DEKAMP, Jon (NSCL / MSU); Dr BRODEUR, Maxime (NSCL/MSU); Dr JOSHI, Ninad (NSCL / MSU); Dr RINGLE, Ryan (NSCL / MSU); Dr CHOUHAN, Shailendra (NSCL / MSU)

Presenter: Dr SCHWARZ, Stefan (NSCL / Michigan State University)

Session Classification: Session IV

Track Classification: Ion guides and gas jets

Contribution ID: 73

Type: **Oral session**

Coupling of the gas-filled recoil separator TASCAs to chemistry and spectroscopy devices with a gas-jet

Monday, 3 December 2012 14:20 (20 minutes)

Primary author: Dr EVEN, Julia (Helmholtz-Institut Mainz)

Presenter: Dr EVEN, Julia (Helmholtz-Institut Mainz)

Session Classification: Session II

Track Classification: Equipment for radioactive beam experiments

Contribution ID: 82

Type: **Oral session**

Construction of Rare-RI Ring at RIKEN RI Beam Factory

Monday, 3 December 2012 16:40 (20 minutes)

Primary author: Dr YAMAGUCHI, Yoshitaka (RIKEN Nishina Center)

Presenter: Dr YAMAGUCHI, Yoshitaka (RIKEN Nishina Center)

Session Classification: Session II

Track Classification: In-flight separators and storage rings

Contribution ID: 83

Type: **Oral session**

Development of WINDS for (p,n) measurements in inverse kinematics

Wednesday, 5 December 2012 11:40 (20 minutes)

Primary authors: Dr YAKO, Kentaro (CNS, University of Tokyo); Mr KOBAYASHI, Motoki (CNS, University of Tokyo); Prof. SHIMOURA, Susumu (CNS, University of Tokyo)

Presenter: Dr YAKO, Kentaro (CNS, University of Tokyo)

Session Classification: Session V

Track Classification: Equipment for radioactive beam experiments

Contribution ID: 84

Type: **Oral session**

FRIB Fragment Separator Design

Monday, 3 December 2012 09:50 (20 minutes)

Primary author: Dr HAUSMANN, Marc (Facility for Rare Isotope Beams / Michigan State University)

Co-authors: Dr ZELLER, Al (Facility for Rare Isotope Beams / Michigan State University); Prof. SHERRILL, Bradley M. (National Superconducting Cyclotron Laboratory and Facility for Rare Isotope Beams / Michigan State University); Prof. MORRISSEY, David J. (National Superconducting Cyclotron Laboratory / Michigan State University); Dr PELLEMOINE, Frederique (MSU-NSCL-FRIB); Prof. BOLLEN, Georg (Facility for Rare Isotope Beams / Michigan State University); Dr BANDURA, Laura (Facility for Rare Isotope Beams / Michigan State University); Prof. AMTHOR, Matt (Bucknell University); Dr PORTILLO, Mauricio (Facility for Rare Isotope Beams / Michigan State University); Mr SCHEIN, Mike (Facility for Rare Isotope Beams / Michigan State University); Dr RONNINGEN, Reginald M. (Facility for Rare Isotope Beams / Michigan State University); Mr BENNETT, Richard (Facility for Rare Isotope Beams / Michigan State University); Prof. MITTIG, Wolfgang (National Superconducting Cyclotron Laboratory / Michigan State University)

Presenter: Dr HAUSMANN, Marc (Facility for Rare Isotope Beams / Michigan State University)

Session Classification: Session I

Track Classification: In-flight separators and storage rings

Contribution ID: 87

Type: **Invited**

SAMURAI Spectrometer for RI Beam Experiments

Tuesday, 4 December 2012 17:40 (30 minutes)

Primary author: Dr KOBAYASHI, Toshio (Tohoku University)

Presenter: Dr KOBAYASHI, Toshio (Tohoku University)

Session Classification: Session IV

Contribution ID: 88

Type: **Oral session**

Multi-Reflection Time-of-Flight Mass Spectrograph for Short-Lived and Super-Heavy Nuclei

Friday, 7 December 2012 09:40 (20 minutes)

Primary author: Dr SCHURY, Peter (Tsukuba University)

Co-authors: Dr TAKAMINE, Aiko (Aoyama Gakuin University); Prof. OZAWA, Akira (Tsukuba University); Prof. WOLLNIK, Hermann (Geissen University); Mr MITA, Hiroki (Tsukuba University); Dr KOURA, Hiroyuki (JAEA); Dr MORITA, Kousuke (RIKEN); Dr OKADA, Kunihiro (Sophia University); Dr WADA, Michiharu (RIKEN); Dr NAIMI, Sara (RIKEN); Dr SONODA, Tetsu (SLOWRI Team, RIKEN Nishina Center for Accelerator-Based Science); Mr ITO, Yuta (University of Tsukuba)

Presenter: Dr SCHURY, Peter (Tsukuba University)

Session Classification: Session VIII

Track Classification: Mass spectrometry

Contribution ID: 91

Type: **Oral session**

Study of collisions of $^{136}\text{Xe}+^{198}\text{Pt}$ for the KEK isotope separation system

Friday, 7 December 2012 14:50 (20 minutes)

Primary author: Dr WATANABE, Yutaka (High Energy Accelerator Research Organization)

Co-authors: Dr SCHMITT, Christelle (GANIL); Dr SUZUKI, Daisuke (IPN); Dr MONTANARI, Daniele (University of Padova); Dr CLEMENT, Emmanuel (GANIL); Dr FIORETTO, Enrico (LNL); Prof. DE FRANCE, Gilles (GANIL); Prof. POLLAROLO, Giovanni (University of Trino); Dr ISHIYAMA, HIRONOBU (KEK); Mr NISHIBATA, Hiroki (Osaka University); Mr TAKATSU, Jun (Osaka University); Prof. CORRADI, Lorenzo (LNL); Dr REJMUND, Maurycy (GANIL); Dr NIIKURA, Megumi (IPN); Prof. ALAHARI, Navin (GANIL); Dr IMAI, Nobuaki (High Energy Accelerator Research Organization); Prof. CHOI, Seon-Ho (Seoul National University); Mr JEONG-SEOG, Song (Seoul National University); Prof. JEONG, Sun-Chan (High Energy Accelerator Research Organization); Mr KIM, Yoong-Hee (Seoul National University); Dr HIRAYAMA, Yoshikazu (IPNS, KEK); Dr MIYATAKE, Hiroari (IPNS, KEK)

Presenter: Dr WATANABE, Yutaka (High Energy Accelerator Research Organization)

Session Classification: Session IX

Track Classification: Reactions for radioactive isotope productions

Contribution ID: 94

Type: **Oral session**

Construction of the SCRIT electron scattering facility at RIKEN RI beam factory

Monday, 3 December 2012 17:00 (20 minutes)

Primary author: Dr WAKASUGI, Masanori (RIKEN Nushina Center)

Presenter: Dr WAKASUGI, Masanori (RIKEN Nushina Center)

Session Classification: Session II

Track Classification: Equipment for radioactive beam experiments

Contribution ID: 95

Type: **Oral session**

Production cross section measurements of radioactive isotopes by BigRIPS separator at RIKEN RI Beam Factory

Friday, 7 December 2012 15:10 (20 minutes)

Primary author: Dr SUZUKI, Hiroshi (RIKEN Nishina Center, RIKEN)

Co-authors: Dr KAMEDA, Daisuke (RIKEN Nishina Center); Dr SATO, Hiromi (RIKEN Nishina Center); Dr TAKEDA, Hiroyuki (RIKEN Nishina Center); Mr INABE, Naohito (RIKEN Nishina Center); Dr FUKUDA, Naoki (RIKEN Nishina Center); Dr OHNISHI, Tetsuya (RIKEN Nishina Center); Dr KUBO, Toshiyuki (RIKEN Nishina Center); Dr SHIMIZU, Yohei (RIKEN Nishina Center)

Presenter: Dr SUZUKI, Hiroshi (RIKEN Nishina Center, RIKEN)

Session Classification: Session IX

Track Classification: Reactions for radioactive isotope productions

Contribution ID: 97

Type: **Oral session**

Systematic Study on Individual Charge-Changing Cross-Sections of Intermediate-Energy Secondary Beams

Friday, 7 December 2012 15:30 (20 minutes)

Primary author: Dr YAMAGUCHI, Takayuki (Saitama Univ.)

Presenter: Dr YAMAGUCHI, Takayuki (Saitama Univ.)

Session Classification: Session IX

Track Classification: Reactions for radioactive isotope productions

Contribution ID: 98

Type: **Oral session**

Spin-aligned RI beams via two-step fragmentation reactions

Friday, 7 December 2012 16:10 (20 minutes)

Primary author: Dr UENO, Hideki (RIKEN Nishina Center)

Presenter: Dr UENO, Hideki (RIKEN Nishina Center)

Session Classification: Session IX

Track Classification: Reactions for radioactive isotope productions

Contribution ID: 99

Type: **Oral session**

Ion optical calculation with realistic three-dimensional field mapping for the BigRIPS fragment separator

Tuesday, 4 December 2012 16:40 (20 minutes)

Primary author: Dr TAKEDA, Hiroyuki (RIKEN Nishina Center, RIKEN)

Co-authors: Dr KAMEDA, Daisuke (RIKEN Nishina Center, RIKEN); Dr SUZUKI, Hiroshi (RIKEN Nishina Center, RIKEN); Dr KUSAKA, Kensuke (RIKEN Nishina Center, RIKEN); Dr INABE, Naohito (RIKEN Nishina Center, RIKEN); Dr FUKUDA, Naoki (RIKEN Nishina Center, RIKEN); Dr OHNISHI, Tetsuya (RIKEN Nishina Center, RIKEN); Dr KUBO, Toshiyuki (RIKEN Nishina Center, RIKEN)

Presenter: Dr TAKEDA, Hiroyuki (RIKEN Nishina Center, RIKEN)

Session Classification: Session IV

Track Classification: Ion optics and spectrometers

Contribution ID: 104

Type: **Oral session**

High power target and beam dump system for BigRIPS fragment separator

Thursday, 6 December 2012 09:30 (20 minutes)

Primary author: Dr YOSHIDA, Koichi (RIKEN Nishina Center)

Co-authors: Dr KUBO, Toshiyuki (RIKEN Nishina Center); Dr YANAGISAWA, Yoshiyuki (RIKEN Nishina Center)

Presenter: Dr YOSHIDA, Koichi (RIKEN Nishina Center)

Session Classification: Session VI

Track Classification: Techniques related to high-power beams

Contribution ID: 111

Type: **Oral session**

Recent developments for high-precision mass measurements of the heaviest elements with SHIPTRAP

Thursday, 6 December 2012 14:40 (20 minutes)

Primary author: Dr BLOCK, Michael (GSI Helmholtzzentrum für Schwerionenforschung GmbH)

Presenter: Dr BLOCK, Michael (GSI Helmholtzzentrum für Schwerionenforschung GmbH)

Session Classification: Session VII

Track Classification: Mass spectrometry

Contribution ID: 112

Type: **Oral session**

Status of the HIE-ISOLDE Project at ISOLDE

Friday, 7 December 2012 17:10 (20 minutes)

Primary author: Mr CATHERALL, Richard (CERN)

Co-authors: Mr MASI, Alessandro (CERN); Mrs BERNARDES, Ana-Paula (CERN); Dr WENANDER, Fredrik John Carl (CERN); Mrs VANDONI, Giovana (CERN); Mr DELEVAL, Serge (CERN); Mr MARZARI, Stefano (CERN); Dr STORA, Thierry (CERN); Dr GILES, Tim (CERN); Mr FOWLER, Tony (Engineer); Dr VLACHOUDIS, Vasilis (CERN); Prof. KADI, Yacine (CERN)

Presenter: Mr CATHERALL, Richard (CERN)

Session Classification: Session IX

Track Classification: Facility initiatives

Contribution ID: 116

Type: **Oral session**

Identification and separation of RI beams by BigRIPS separator at RIKEN RI Beam Factory

Monday, 3 December 2012 10:30 (20 minutes)

Primary author: Dr FUKUDA, Naoki (RIKEN Nishina Center)

Co-authors: Dr KAMEDA, Daisuke (RIKEN Nishina Center); Dr SUZUKI, Hiroshi (RIKEN Nishina Center, RIKEN); Dr TAKEDA, Hiroyuki (RIKEN Nishina Center); Mr INABE, Naohito (RIKEN Nishina Center); Dr OHNISHI, Tetsuya (RIKEN Nishina Center); Dr KUBO, Toshiyuki (RIKEN Nishina Center)

Presenter: Dr FUKUDA, Naoki (RIKEN Nishina Center)

Session Classification: Session I

Track Classification: In-flight separators and storage rings

Contribution ID: 117

Type: **Oral session**

Proton polarization in photo-excited aromatic molecule at room temperature

Friday, 7 December 2012 15:50 (20 minutes)

Primary author: Dr SAKAGUCHI, Satoshi (Kyushu University)

Co-authors: Ms SHIBUSAWA, Anna (Toho University); Mr TANG, Ryan (CNS, University of Tokyo); Dr WAKUI, Takashi (CYRIC, Tohoku University); Dr UESAKA, Tomohiro (RIKEN Nishina Center); Ms KAWAHARA, Tomomi (Toho University)

Presenter: Dr SAKAGUCHI, Satoshi (Kyushu University)

Session Classification: Session IX

Track Classification: Equipment for radioactive beam experiments

Contribution ID: 118

Type: **Oral session**

The Collinear Resonant Ionization Spectroscopy (CRIS) experimental setup at CERN-ISOLDE

Thursday, 6 December 2012 11:10 (20 minutes)

Primary author: Dr COCOLIOS, Thomas Elias (ISOLDE, CERN)

Presenter: Dr COCOLIOS, Thomas Elias (ISOLDE, CERN)

Session Classification: Session VI

Track Classification: Traps and laser techniques

Contribution ID: 122

Type: **Oral session**

New Applications of a Multiple Reflection Time-of-Flight Mass Spectrometer in Environment Sciences and in Medicine

Friday, 7 December 2012 10:00 (20 minutes)

Primary author: Dr DICKEL, Timo (GSI Helmholtzzentrum für Schwerionenforschung)

Co-authors: Prof. SCHEIDENBERGER, Christoph (GSI); Dr HAETTNER, Emma (Justus-Liebig-University, Gießen, Germany); Prof. GEISSEL, Hans (GSI); Mr EBERT, Jens (Justus-Liebig-University, Gießen, Germany); Mr LANG, Johannes (Justus-Liebig-University, Gießen, Germany); Prof. YAVOR, Mikhail (Institute for Analytical Instrumentation, St. Petersburg, Russia); Mr LIPPERT, Wayne (Justus-Liebig-University, Gießen, Germany); Dr PLASS, Wolfgang (GSI)

Presenter: Dr DICKEL, Timo (GSI Helmholtzzentrum für Schwerionenforschung)

Session Classification: Session VIII

Track Classification: Applications

Contribution ID: 123

Type: **Oral session**

New developments of the in-source spectroscopy method at RILIS/ISOLDE

Wednesday, 5 December 2012 10:10 (20 minutes)

Primary author: Dr MARSH, Bruce (ISOLE, CERN, Switzerland)

Co-authors: Mr FINK, Daniel (ISOLDE, CERN, Switzerland); Dr FEDOROV, Dmitri (PNPI, Gatchina, Russian Federation); Dr SELIVERSTOV, Maxim (The University of the West of Scotland, UK); Mr ROSSEL, Ralf (The University of Mainz, Germany); Mr ROTHE, Sebastian (ISOLDE, CERN, Switzerland); Dr FEDOSSEEV, Valentin (ISOLDE, CERN, Switzerland)

Presenter: Dr MARSH, Bruce (ISOLE, CERN, Switzerland)

Session Classification: Session V

Track Classification: Traps and laser techniques

Contribution ID: 126

Type: **Oral session**

FIPPS - Fission Product Prompt gamma-ray Spectrometer: development of gas-filled magnetic spectrometer at the ILL

Monday, 3 December 2012 14:40 (20 minutes)

Primary author: Dr BLANC, Aurelien (Institut Laue-Langevin)

Co-authors: Mr CHEBOUBBI, Abdel (Institut Laue-Langevin, LPSC CNRS/IN2P3, UJF Grenoble 1, INPG); Dr SAGE, Christophe (LPSC CNRS/IN2P3, UJF Grenoble 1, INPG); Dr KESSEDJIAN, Gregoire (LPSC CNRS/IN2P3, UJF Grenoble 1, INPG); Dr FAUST, Herbert (Institut Laue-Langevin); Dr JENTSCHHEL, Michael (Institut Laue-Langevin); Dr MATERNA, Thomas (DSM/IRFU/SPhN CEA Saclay); Dr KOSTER, Ulli (Institut Laue Langevin); Dr URBAN, Waldemar (Institut Laue-Langevin)

Presenter: Dr BLANC, Aurelien (Institut Laue-Langevin)

Session Classification: Session II

Track Classification: Equipment for radioactive beam experiments

Contribution ID: 127

Type: **Invited**

Very High Power Density Targets

Thursday, 6 December 2012 09:00 (30 minutes)

Primary author: Dr PELLEMOINE, Frederique (MSU-NSCL-FRIB)

Presenter: Dr PELLEMOINE, Frederique (MSU-NSCL-FRIB)

Session Classification: Session VI

Contribution ID: 128

Type: **Oral session**

The Laser Ion Source and Trap (LIST) at ISOLDE, CERN: Isobar Free Ion Beams

*Tuesday, 4 December 2012 09:50 (20 minutes)***Primary author:** Mr FINK, Daniel (CERN, University of Heidelberg)**Co-authors:** Dr GOTTBURG, Alexander (CERN); Mr CREPIEUX, Bernard (CERN); Dr MARSH, Bruce (CERN); Prof. BLAUM, Klaus (Max-Planck-Institut für Kernphysik Heidelberg, University of Heidelberg); Prof. WENDT, Klaus (University of Mainz); Dr MATTHIAS, Kronberger (CERN); Dr SELLVERSTOV, Maxim (CERN); Mr OWEN, Michael (CERN); Dr IMAI, Nobuaki (CERN); Mr ROSSEL, Ralf Erik (CERN, University of Mainz); Dr CATHERALL, Richard (CERN); Dr ROTHE, Sebastian (CERN, University of Mainz); Mr RICHTER, Sven (University of Mainz); Dr STORA, Thierry (CERN); Mr KRON, Tobias (University of Mainz); Dr FEDOSSEEV, Valentin (CERN)**Presenter:** Mr FINK, Daniel (CERN, University of Heidelberg)**Session Classification:** Session III**Track Classification:** Target techniques and ion sources

Contribution ID: 130

Type: **Oral session**

New Generation Of ISOL Target Station For The Production of Intense RIB

Tuesday, 4 December 2012 09:30 (20 minutes)

Primary author: Dr BRICAULT, Pierre (TRIUMF)

Co-authors: Dr AMES, Friedhelm (TRIUMF); Mr MINOR, Grant (TRIUMF); Dr LASSEN, Jens (TRIUMF); Dr DOMBSKY, Marik (TRIUMF)

Presenter: Dr LASSEN, Jens (TRIUMF)

Session Classification: Session III

Track Classification: Target techniques and ion sources

Contribution ID: 133

Type: **Invited**

Ion Optical Modeling of Large Acceptance, In-Flight Separators

Primary author: Prof. AMTHOR, Matt (Bucknell University)

Presenter: Prof. AMTHOR, Matt (Bucknell University)

Contribution ID: 134

Type: **Invited**

European RIB facilities - status and future

Thursday, 6 December 2012 16:00 (30 minutes)

Primary author: Prof. NILSSON, Thomas (Chalmers University of Technology)

Presenter: Prof. NILSSON, Thomas (Chalmers University of Technology)

Session Classification: Session VII

Contribution ID: 136

Type: **Oral session**

Development of multi-turn time-of-flight mass spectrometers

Friday, 7 December 2012 10:20 (20 minutes)

Primary author: Prof. TOYODA, Michisato (Project Research Center for Fundamental Sciences, Graduate School of Science, Osaka University)

Co-authors: Dr AOKI, Jun (Project Research Center for Fundamental Sciences, Graduate School of Science, Osaka University); Dr ISHIHARA, Morio (Department of Physics, Graduate School of Science, Osaka University)

Presenter: Dr AOKI, Jun (Osaka University)

Session Classification: Session VIII

Track Classification: Mass spectrometry

Contribution ID: 137

Type: **Oral session**

LEBIT II: Upgrades and Developments for High Precision Penning Trap Mass Measurements with Rare Isotopes

Friday, 7 December 2012 09:20 (20 minutes)

Primary author: Prof. REDSHAW, Matthew (Central Michigan University)

Co-authors: Dr KWIATKOWSKI, Ania (TRIUMF); Mr LINCOLN, David (Michigan State University); Prof. BOLLEN, Georg (National Superconducting Cyclotron Laboratory); Dr RINGLE, Ryan (National Superconducting Cyclotron Laboratory); Mr NOVARIO, Samuel (Michigan State University); Mr BUSTABAD, Scott (Michigan State University); Dr SCHWARZ, Stefan (National Superconducting Cyclotron Laboratory)

Presenter: Prof. REDSHAW, Matthew (Central Michigan University)

Session Classification: Session VIII

Track Classification: Mass spectrometry

Contribution ID: 138

Type: **Oral session**

MARA and RITU, in-flight separators for nuclear structure studies at JYFL

Primary author: Dr UUSITALO, Juha (University of Jyväskylä)

Presenter: Dr UUSITALO, Juha (University of Jyväskylä)

Track Classification: In-flight separators and storage rings

Contribution ID: 139

Type: **Invited**

Possible Evolution of RIB Production Methods and of the Associated Instrumentation: a Personal View

Monday, 3 December 2012 09:20 (30 minutes)

Primary author: Prof. MITTIG, Wolfgang (NSCL-MSU)

Presenter: Prof. MITTIG, Wolfgang (NSCL-MSU)

Session Classification: Opening

Contribution ID: 142

Type: **Oral session**

Wear diagnostics of industrial material using RI beams of ^7Be and ^{22}Na

Friday, 7 December 2012 11:30 (20 minutes)

Primary author: Dr YOSHIDA, Atsushi (Industrial Cooperation Team, RNC)

Presenter: Dr YOSHIDA, Atsushi (Industrial Cooperation Team, RNC)

Session Classification: Session VIII

Track Classification: Applications

Contribution ID: 145

Type: **Oral session**

The Gas-Filled Recoil Separator in Lanzhou

Monday, 3 December 2012 11:40 (20 minutes)

Primary author: Prof. GAN, Zaiguo (Institute of Modern Physics, Chinese Academy of Science)

Presenter: Prof. GAN, Zaiguo (Institute of Modern Physics, Chinese Academy of Science)

Session Classification: Session I

Track Classification: In-flight separators and storage rings

Contribution ID: 146

Type: **Oral session**

BigRIPS as a high resolution spectrometer for pionic atoms

Wednesday, 5 December 2012 12:00 (20 minutes)

Primary author: Mr NISHI, Takahiro (University of Tokyo)

Presenter: Mr NISHI, Takahiro (University of Tokyo)

Session Classification: Session V

Track Classification: Ion optics and spectrometers

Contribution ID: 157

Type: **Oral session**

Laser Resonance Ionization at TRIUMF - spectroscopy tool and ion source for rare isotopes

Wednesday, 5 December 2012 09:50 (20 minutes)

Primary author: Dr LASSEN, Jens (TRIUMF - Canada's National Laboratory for Nuclear and Particle Physics)

Co-authors: Ms TEIGELHOEFER, Andrea (TRIUMF - Canada's National Laboratory for Nuclear and Particle Physics); Dr AMES, Friedhelm (TRIUMF - Canada's National Laboratory for Nuclear and Particle Physics); Mr HEGGEN, Henning (TRIUMF - Canada's National Laboratory for Nuclear and Particle Physics); Prof. WENDT, Klaus (Institut fuer Physik, Johannes Gutenberg-Universitaet Mainz, 55099 Mainz, Germany); Dr DOMBSKY, Marik (TRIUMF - Canada's National Laboratory for Nuclear and Particle Physics); Dr KUNZ, Peter (TRIUMF - Canada's National Laboratory for Nuclear and Particle Physics); Dr LEVY, Phil (TRIUMF - Canada's National Laboratory for Nuclear and Particle Physics); Dr BRICAULT, Pierre (TRIUMF - Canada's National Laboratory for Nuclear and Particle Physics); Dr LI, Ruohong (TRIUMF - Canada's National Laboratory for Nuclear and Particle Physics); Dr RAEDER, Sebastian (TRIUMF - Canada's National Laboratory for Nuclear and Particle Physics); Mr MENKE, Tobias (TRIUMF - Canada's National Laboratory for Nuclear and Particle Physics); Ms ABBOUD, Zeinab (TRIUMF - Canada's National Laboratory for Nuclear and Particle Physics)

Presenter: Dr LASSEN, Jens (TRIUMF - Canada's National Laboratory for Nuclear and Particle Physics)

Session Classification: Session V

Track Classification: Traps and laser techniques

Contribution ID: 163

Type: **Oral session**

HIRFL-CSR cluster internal target

Monday, 3 December 2012 16:20 (20 minutes)

Primary authors: Mr SHAO, Caojie (Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou 730000, China); Mr YU, Deyang (Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou 730000, China); Mr LU, Rongchun (Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou 730000, China); Prof. CAI, Xiaohong (Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou 730000, China)

Presenter: Mr LU, Rongchun (Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou 730000, China)

Session Classification: Session II

Track Classification: In-flight separators and storage rings

Contribution ID: 171

Type: **Invited**

Status and trends of on-line resonant laser ionization sources

Thursday, 6 December 2012 10:40 (30 minutes)

Primary author: Prof. WENDT, Klaus (University of Mainz)

Presenter: Prof. WENDT, Klaus (University of Mainz)

Session Classification: Session VI

Contribution ID: 172

Type: **Oral session**

Current status of the Rare Isotope Science Project

Friday, 7 December 2012 17:50 (20 minutes)

Primary author: Prof. KIM, Yong-Kyun (Institute for Basic Science)

Presenter: Prof. KIM, Yong-Kyun (Institute for Basic Science)

Session Classification: Session IX

Track Classification: Facility initiatives

Contribution ID: 174

Type: **Invited**

Multinucleon transfer reactions : present status and perspectives

Friday, 7 December 2012 14:20 (30 minutes)

Primary author: Dr CORRADI, Lorenzo (INFN - Laboratori Nazionali di Legnaro)

Presenter: Dr CORRADI, Lorenzo (INFN - Laboratori Nazionali di Legnaro)

Session Classification: Session IX

Contribution ID: 178

Type: **Oral session**

Status and plans for recoil separators for experiments with intense stable beams from ATLAS

Tuesday, 4 December 2012 12:10 (20 minutes)

Presenter: Dr SEWERYNIAK, Dariusz (Argonne National Laboratory)

Session Classification: Session III

Track Classification: In-flight separators and storage rings

Contribution ID: 179

Type: **Oral session**

Status and plans for radioactive beams at ATLAS

Friday, 7 December 2012 17:30 (20 minutes)

Presenter: Dr PARDO, R.C (Argonne National Laboratory)

Session Classification: Session IX

Track Classification: Facility initiatives

Contribution ID: **199**

Type: **Invited**

Research on Superheavy Elements at RIKEN

Monday, 3 December 2012 11:10 (30 minutes)

Presenter: Dr MORITA, Kosuke (RIKEN Nishina Center)

Session Classification: Session I

Contribution ID: **205**

Type: **Invited**

TBA

Presenter: Prof. JOKINEN, Ari (University of Jyväskylä)

Contribution ID: 206

Type: **Invited**

Review of ADS projects in the world and perspective for implementation of MYRRHA as a test-case

Presenter: Prof. ABDERRAHIM, Hamid Ait (SCK CEN)

Contribution ID: **210**

Type: **Invited**

Summary talks

Friday, 7 December 2012 18:10 (30 minutes)

Presenter: Prof. BRACCO, Angela (INFN)

Session Classification: Closing

Contribution ID: 212

Type: **not specified**

Nuclei and Universe, and Progress of research technique

Sunday, 2 December 2012 13:10 (40 minutes)

Presenter: Prof. SHINOZUKA, Tsutomu (CYRIC, Tohoku University)

Session Classification: Public Lectures

Contribution ID: 213

Type: **not specified**

Perspectives of the light ion cancer therapy

Sunday, 2 December 2012 13:50 (40 minutes)

Presenter: Prof. KANAZAWA, Mitsutaka (SAGA HIMAT)

Session Classification: Public Lectures

Contribution ID: 214

Type: **not specified**

The universe proved by elements

Sunday, 2 December 2012 15:00 (40 minutes)

Presenter: Prof. OTSUKI, Kaori (Fukuoka Univ.)

Session Classification: Public Lectures

Contribution ID: 215

Type: **not specified**

New element search - Alchemy in modern style -

Sunday, 2 December 2012 15:40 (40 minutes)

Presenter: Dr MORITA, Kousuke (RIKEN Nishina Center)

Session Classification: Public Lectures

Contribution ID: **217**

Type: **not specified**

Opening

Sunday, 2 December 2012 13:00 (10 minutes)

Session Classification: Public Lectures

Contribution ID: **218**

Type: **not specified**

Closing

Sunday, 2 December 2012 16:20 (10 minutes)

Session Classification: Public Lectures

Contribution ID: 219

Type: **Invited**

RIB Physics with Heavy-Ion Storage Rings

Monday, 3 December 2012 15:50 (30 minutes)

Primary author: Prof. LITVINOV, Yuri (GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany)

Presenter: Prof. LITVINOV, Yuri (GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany)

Session Classification: Session II

Track Classification: Ion optics and spectrometers

Contribution ID: 220

Type: **Invited**

Ion beam mutagenesis and mutagenomics

Friday, 7 December 2012 11:00 (30 minutes)

Primary author: Dr ABE, Tomoko (RIKEN Nishina Center)

Presenter: Dr ABE, Tomoko (RIKEN Nishina Center)

Session Classification: Session VIII

Track Classification: Applications

Contribution ID: 222

Type: **Invited**

Large gamma-ray detector arrays and electromagnetic separators

Monday, 3 December 2012 15:00 (30 minutes)

Primary author: Prof. LEE, I-Yang (LBNL)

Presenter: Prof. LEE, I-Yang (LBNL)

Session Classification: Session II

Track Classification: Ion optics and spectrometers

Contribution ID: 223

Type: **Invited**

Development of RIB facilities in Asia

Thursday, 6 December 2012 16:30 (30 minutes)

Primary author: Prof. YE, Yanlin (Peking University)

Presenter: Prof. YE, Yanlin (Peking University)

Session Classification: Session VII

Track Classification: Facility initiatives

Contribution ID: 224

Type: **Invited**

State-of-the-art post accelerators for radioactive beams

Tuesday, 4 December 2012 11:20 (30 minutes)

Primary author: Prof. LEITNER, Daniela (NSCL)

Presenter: Prof. LEITNER, Daniela (NSCL)

Session Classification: Session III

Track Classification: Facility initiatives

Contribution ID: 225

Type: **Invited**

Recent developments of target and ion sources to produce ISOL beams

Tuesday, 4 December 2012 09:00 (30 minutes)

Primary author: Dr STORA, Thierry (CERN)

Presenter: Dr STORA, Thierry (CERN)

Session Classification: Session III

Track Classification: Target techniques and ion sources

Contribution ID: 226

Type: **Invited**

Genealogy of gas cells for low-energy radioactive ion beams

Tuesday, 4 December 2012 14:30 (30 minutes)

Primary author: Dr WADA, Michiharu (RIKEN Nishina Center)

Presenter: Dr WADA, Michiharu (RIKEN Nishina Center)

Session Classification: Session IV

Track Classification: Ion guides and gas jets

Contribution ID: 227

Type: **Invited**

Rare Isotope Beams in the Americas - Present and Next Generation Facilities

Thursday, 6 December 2012 17:00 (30 minutes)

Primary author: Dr BOLLEN, Georg (FRIB/MSU)

Presenter: Dr BOLLEN, Georg (FRIB/MSU)

Session Classification: Session VII

Track Classification: Facility initiatives