

# **11th International Conference on HEAVY ION ACCELERATOR TECHNOLOGY**



## **Report of Contributions**

Contribution ID: 8

Type: **Poster presentation**

## **Research on Measurement of the fission product nuclide $^{126}\text{Sn}$ by AM**

**Primary author:** Mr SHEN, Hong tao (china institute of atomic energy)

**Co-authors:** Mr HE, Ming (china institute of atomic energy); Mr JIANG, Shan (china institute of atomic energy)

**Presenter:** Mr SHEN, Hong tao (china institute of atomic energy)

Contribution ID: 9

Type: **Poster presentation**

## **Current status report of RAPID, The University of Tokyo**

**Primary author:** Mr ITO, Seiji (Department of Nuclear Engineering and Management, School of Engineering, The university of Tokyo)

**Co-authors:** Mr MORITA, Akira (Department of Nuclear Engineering and Management, School of Engineering, The university of Tokyo); Prof. MATSUZAKI, Hiroyuki (Department of Nuclear Engineering and Management, School of Engineering, The university of Tokyo)

**Presenter:** Mr ITO, Seiji (Department of Nuclear Engineering and Management, School of Engineering, The university of Tokyo)

Contribution ID: 10

Type: **Oral presentation**

## **Design study of the medical cyclotron SCENT300**

*Tuesday, June 9, 2009 3:00 PM (20 minutes)*

**Primary author:** Dr CALABRETTA, Luciano (INFN - LNS)

**Co-authors:** CAMPO, Daniela (INFN - LNS); PIAZZA, Leandro (INFN - LNS); Dr MAGGIORE, Mario (INFN - LNS)

**Presenter:** Dr MAGGIORE, Mario (INFN - LNS)

**Session Classification:** CIRCULAR ACCELERATORS

**Track Classification:** Circular Machines

Contribution ID: 11

Type: **Poster presentation**

## **Design of the central region of the new multi-purpose cyclotron U400R**

**Primary author:** Mr IVANENKO, Ivan (JINR, Dubna)

**Presenter:** Mr IVANENKO, Ivan (JINR, Dubna)

Contribution ID: 13

Type: **Oral presentation**

## **RCNP cyclotron facility**

*Tuesday, June 9, 2009 12:30 PM (20 minutes)*

**Primary author:** Prof. HATANAKA, Kichiji (Research Center for Nuclear Physica, Osaka University)

**Co-authors:** TAMURA, Hitoshi (Research Center for Nuclear Physica, Osaka University); FUKUDA, Mitsuhiro (Research Center for Nuclear Physica, Osaka University); KIBAYASHI, Mitsuru (Research Center for Nuclear Physica, Osaka University); MORINOBU, Shunpei (Research Center for Nuclear Physica, Osaka University); SAITO, Takane (Research Center for Nuclear Physica, Osaka University); YORITA, Tetsuhiko (Research Center for Nuclear Physica, Osaka University); NAGAYAMA, keiichi (Research Center for Nuclear Physica, Osaka University)

**Presenter:** Prof. HATANAKA, Kichiji (Research Center for Nuclear Physica, Osaka University)

**Session Classification:** CIRCULAR ACCELERATORS

**Track Classification:** Circular Machines

Contribution ID: 15

Type: **Poster presentation**

## **Status of the caviar detector at LISE-GANIL**

**Primary author:** Mr PERROT, Luc (IPN-IN2P3-CNRS)

**Co-authors:** Mr HOUARNER, Charles (GANIL-IN2P3-CNRS); Mr MARRY, Claude (GANIL-IN2P3-CNRS); Mr ASTABATYAN, R. (JINR-Dubna); Mr HUE, Robert (GANIL-IN2P3-CNRS); Mr LUKYANOV, S.M. (JINR-Dubna); Mr GRÉVY, Stéphane (GANIL-IN2P3-CNRS)

**Presenter:** Mr PERROT, Luc (IPN-IN2P3-CNRS)

Contribution ID: 16

Type: **Poster presentation**

## **HEBT lines for the SPIRAL2 facility**

**Primary author:** Mr PERROT, Luc (IPN-IN2P3-CNRS)

**Co-authors:** Mr URIOT, Didier (SACM/IRFU/DSM/CEA); Mr BIARROTTE, Jean-Luc (IPN-IN2P3-CNRS); Mr BERTRAND, Patrick (GANIL-IN2P3-CNRS)

**Presenter:** Mr PERROT, Luc (IPN-IN2P3-CNRS)



Contribution ID: 17

Type: **Poster presentation**

## Simulation and design of the compact superconducting cyclotron C400 for hadron therapy

**Primary author:** Prof. SYRESIN, Evgeny (Joint Institute for Nuclear Research)

**Co-authors:** Dr BLONDIN, Albert (Ion Beam Application); Mr SAMARTSEV, Alexander (Joint Institute for Nuclear Research); Mr TUSIKOV, Alexey (Joint Institute for Nuclear Research); Dr VAN-DEPLASSCHE, Dirk (Ion Beam Application); Dr SAMSONOV, Evgeny (Joint Institute for Nuclear Research); Dr KARAMYSHEVA, Galina (Joint Institute for Nuclear Research); Prof. SHIRKOV, Grigory (Joint Institute for Nuclear Research); Dr ABS, Michel (Ion Beam Application); Dr KAZARINOV, Nikolaj (Joint Institute for Nuclear Research); Dr MOROZOV, Nikolay (Joint Institute for Nuclear Research); Mr RYBAKOV, Nikolay (Joint Institute for Nuclear Research); Mr GYRSKY, Semen (Joint Institute for Nuclear Research); Dr KOSTROMIN, Sergej (Joint Institute for Nuclear Research); Dr ZAREMBA, Simon (Ion Beam Application); Mr ROMANOV, Victor (Joint Institute for Nuclear Research); Dr ALEXANDROV, Vladimir (Joint Institute for Nuclear Research); Dr SHVETSOV, Vladimir (Joint Institute for Nuclear Research); Dr KLEEVEN, Willem (Ion Beam Application); Dr JONGEN, Yves (Ion Beam Application)

**Presenter:** Prof. SYRESIN, Evgeny (Joint Institute for Nuclear Research)

Contribution ID: 18

Type: **Poster presentation**

## **Formation of high intensive radioactive carbon ion beams in the electron string ion source**

**Primary author:** Prof. SYRESIN, Evgeny (Joint Institute for Nuclear Research)

**Co-authors:** Mr DONETS, Denis (Joint Institute for Nuclear Research); Dr DONETS, Evgeny Evgenjevich (Joint Institute for Nuclear Research); Mr SHUTOV, Vitaly (Joint Institute for Nuclear Research); Mr SALNIKOV, Vladimir (Joint Institute for Nuclear Research)

**Presenter:** Prof. SYRESIN, Evgeny (Joint Institute for Nuclear Research)

Contribution ID: 19

Type: **Poster presentation**

## **Simulation and design of tubular electron string ion source**

**Primary author:** Prof. SYRESIN, Evgeny (Joint Institute for Nuclear Research)

**Co-authors:** Prof. DUBINOV, Alexander (All-Russian Institute of Experimental Physics); Mr SHABUNOV, Alexey (Joint Institute for Nuclear Research); Mr DONETS, Denis (Joint Institute for Nuclear Research); Prof. DONETS, Evgeny Evgenjevich (Joint Institute for Nuclear Research); Dr MAKAROV, Igor (All-Russian Institute of Experimental Physics); Mr GARIPOV, Renat (All-Russian Institute of Experimental Physics); Dr DROBIN, Valery (Joint Institute for Nuclear Research); Dr SHISHOV, Yury (Joint Institute for Nuclear Research)

**Presenter:** Prof. SYRESIN, Evgeny (Joint Institute for Nuclear Research)

Contribution ID: 20

Type: **Poster presentation**

## **Electron Cooling of Pb54+ Ions in LEIR**

**Primary author:** Mr TRANQUILLE, Gerard (Beams Department (BE), CERN, CH1211 Geneva, Switzerland)

**Presenter:** Mr TRANQUILLE, Gerard (Beams Department (BE), CERN, CH1211 Geneva, Switzerland)

Contribution ID: 21

Type: **Poster presentation**

## **Preparation of the irradiation test at cave CAVE HHD of GSI Darmstadt**

**Primary author:** Dr PLOTNIKOV, Andrey (GSI)

**Co-authors:** Mr SMOLYAKOV, Andrey (ITEP); Dr MUSTAFIN, Edil (GSI); Dr SCHUBERT, Elko (GSI); Dr FLOCH, Eric (GSI); Mr STRASIK, Ivan (GSI); Mr SEIDL, Tim (GSI)

**Presenter:** Dr MUSTAFIN, Edil (GSI)

Contribution ID: 22

Type: **Oral presentation**

## **Building design for high beam-power facilities, the example of SPIRAL 2**

*Monday, June 8, 2009 4:10 PM (20 minutes)*

**Primary author:** Dr LAGNIEL, Jean-Michel (GANIL)

**Presenter:** Dr LAGNIEL, Jean-Michel (GANIL)

**Session Classification:** RADIOACTIVE ION BEAM FACILITIES

**Track Classification:** Radioactive Ion Beam Facilities

Contribution ID: 23

Type: **Oral presentation**

## **Upgrade of the HIT Injector LINAC-Frontend**

*Thursday, June 11, 2009 12:20 PM (20 minutes)*

**Primary author:** Dr YARAMYSHEV, Stepan (GSI Darmstadt)

**Co-authors:** Dr PETERS, Andreas (HIT Heidelberg); Dr ORZHEKHOVSKAYA, Anna (GSI Darmstadt); Dr SCHLITT, Bernhard (GSI Darmstadt); Dr VORMANN, Hartmut (GSI Darmstadt); Dr MAIER, Michael (GSI Darmstadt); Dr CEE, Rainer (HIT Heidelberg); Dr BARTH, Winfried (GSI Darmstadt)

**Presenter:** Dr YARAMYSHEV, Stepan (GSI Darmstadt)

**Session Classification:** LINACS

**Track Classification:** Linacs

Contribution ID: 24

Type: **Invited**

## HIRFL-CSR Commissioning Status

*Tuesday, June 9, 2009 3:20 PM (30 minutes)*

**Primary author:** Dr LIU, Yong (Institute Modern Physics, Chinese Academy of Sciences)

**Co-authors:** Dr YANG, Jiancheng (Institute Modern Physics, Chinese Academy of Sciences); Prof. XIA, Jiawen (Institute Modern Physics, Chinese Academy of Sciences); Dr MAO, Lijun (Institute Modern Physics, Chinese Academy of Sciences); Mr CHENG, X. (Institute Modern Physics, Chinese Academy of Sciences); Dr YANG, Xiaodong (Institute Modern Physics, Chinese Academy of Sciences); Dr YUAN, Youjin (Institute Modern Physics, Chinese Academy of Sciences)

**Presenter:** Dr LIU, Yong (Institute Modern Physics, Chinese Academy of Sciences)

**Session Classification:** CIRCULAR ACCELERATORS

**Track Classification:** Circular Machines



Contribution ID: 25

Type: **Oral presentation**

## **Maier-Leibnitz-Laboratorium - Tandem operation and experiments**

*Tuesday, June 9, 2009 10:10 AM (20 minutes)*

**Primary author:** Dr BECK, Ludwig (Maier-Leibnitz-Laboratorium / Beschleunigerlabor)

**Presenter:** Dr BECK, Ludwig (Maier-Leibnitz-Laboratorium / Beschleunigerlabor)

**Session Classification:** ELECTROSTATIC ACCELERATORS

**Track Classification:** Electrostatic Accelerators

Contribution ID: 26

Type: **Poster presentation**

## **Irradiation of superconducting magnet components for FAIR**

**Primary author:** Dr MUSTAFIN, Edil (GSI Darmstadt)

**Co-authors:** Dr PLOTNIKOV, Andrei (GSI Darmstadt); Mr SMOLYAKOV, Andrei (ITEP Moscow); Dr SCHUBERT, Elko (GSI Darmstadt); Dr FLOCH, Eric (GSI Darmstadt); Mr STRASIK, Ivan (STU Bratislava); Mrs LATYSHEVA, Ludmila (INR RAS Moscow); Mr SEIDL, Tim (GSI Darmstadt)

**Presenter:** Dr MUSTAFIN, Edil (GSI Darmstadt)

Contribution ID: 27

Type: **Poster presentation**

## **Decelerating heavy ion beams using the ISAC DTL**

**Primary author:** Mr MARCHETTO, Marco (TRIUMF)

**Co-authors:** Ms YAN, Fang (TRIUMF); Mr LAXDAL, Robert (TRIUMF)

**Presenter:** Mr MARCHETTO, Marco (TRIUMF)

Contribution ID: 28

Type: **Poster presentation**

## **A secondary radioactive beam line section for the SPIRAL 2 project: first step, the design study**

**Primary author:** Mr OSSWALD, Francis (CNRS/IN2P3, Uni. Strasbourg)

**Co-author:** Dr KHOUAJA, Abdenbi (CNRS/IN2P3, Uni. Strasbourg)

**Presenter:** Mr OSSWALD, Francis (CNRS/IN2P3, Uni. Strasbourg)

Contribution ID: 29

Type: **Oral presentation**

## **Ion beam cocktail development and ECR ion source plasma physics experiments at JYFL**

*Wednesday, June 10, 2009 12:30 PM (20 minutes)*

**Primary author:** Dr TARVAINEN, Olli (University of Jyvaskyla, Department of Physics, Accelerator Laboratory)

**Co-authors:** Dr KOIVISTO, Hannu (University of Jyvaskyla, Department of Physics, Accelerator Laboratory); Mr KALVAS, Taneli (University of Jyvaskyla, Department of Physics, Accelerator Laboratory); Mr ROPPONEN, Tommi (University of Jyvaskyla, Department of Physics, Accelerator Laboratory); Mr TOIVANEN, Ville (University of Jyvaskyla, Department of Physics, Accelerator Laboratory)

**Presenter:** Dr TARVAINEN, Olli (University of Jyvaskyla, Department of Physics, Accelerator Laboratory)

**Session Classification:** ION SOURCES

**Track Classification:** Ion Sources and Ion Traps

Contribution ID: 31

Type: **Oral presentation**

## **Operational experience of the superconducting LINAC booster at Mumbai**

*Thursday, June 11, 2009 11:40 AM (20 minutes)*

**Primary author:** Prof. PILLAY, Ronald G. (Tata Institute of Fundamental Research)

**Co-authors:** Ms ROZARIO, Catarina (Tata Institute of Fundamental Research); Mr KARANDE, J.N. (Tata Institute of Fundamental Research); Mr POSE, M.S. (Tata Institute of Fundamental Research); Ms DHUMAL, Prajakta (Tata Institute of Fundamental Research); Mr DESHPANDE, R.D. (Tata Institute of Fundamental Research); Mr SARKAR, S.K. (Tata Institute of Fundamental Research); Mr SINGH, S.K. (Bhabha Atomic Research center); Mr SINHA, S.R. (Tata Institute of Fundamental Research); Mr JANGAM, S.S. (Tata Institute of Fundamental Research); Mr B., Srinivasan (Bhabha Atomic Research center); Prof. NANAL, Vandana (Tata Institute of Fundamental Research)

**Presenter:** Prof. NANAL, Vandana (Tata Institute of Fundamental Research)

**Session Classification:** LINACS

**Track Classification:** Linacs

Contribution ID: 32

Type: **Poster presentation**

## **Extraction of the Heavy Ion Beam from the cyclotrons by stripping**

**Primary author:** Dr BORISOV, Oleg (JINR)

**Presenter:** Dr BORISOV, Oleg (JINR)

Contribution ID: 33

Type: **Oral presentation**

## Intensity-upgrade plans of RIKEN RI-beam factory

*Monday, June 8, 2009 3:30 PM (20 minutes)***Primary author:** Dr KAMIGAITO, Osamu (RIKEN Nishina Center)**Co-authors:** Dr GOTO, Akira (RIKEN Nishina Center); Mr IKEZAWA, Eiji (RIKEN Nishina Center); Dr OKUNO, Hiroki (RIKEN Nishina Center); Dr KUBOKI, Hironori (RIKEN Nishina Center); Mr OHNISHI, Jun-ichi (RIKEN Nishina Center); Dr YAMADA, Kazunari (RIKEN Nishina Center); Ms KUMAGAI, Keiko (RIKEN Nishina Center); Dr SUDA, Kenji (RIKEN Nishina Center); Mr NAGASE, Makoto (RIKEN Nishina Center); Mr FUJIMAKI, Masaki (RIKEN Nishina Center); Dr KIDERA, Masanori (RIKEN Nishina Center); Mr KASE, Masayuki (RIKEN Nishina Center); Ms KOMIYAMA, Misaki (RIKEN Nishina Center); Dr SAKAMOTO, Naruhiko (RIKEN Nishina Center); Dr FUKUNISHI, Nobuhisa (RIKEN Nishina Center); Mr YOKOUCHI, Shigeru (RIKEN Nishina Center); Mr FUJINAWA, Tadashi (RIKEN Nishina Center); Mr KAGEYAMA, Tadashi (RIKEN Nishina Center); Dr NAKAGAWA, Takahide (RIKEN Nishina Center); Mr MAIE, Takeshi (RIKEN Nishina Center); Dr WATANABE, Tamaki (RIKEN Nishina Center); Dr YANO, Yasushige (RIKEN Nishina Center); Dr SATO, Yoichi (RIKEN Nishina Center); Dr HIGURASHI, Yoshihide (RIKEN Nishina Center); Dr WATANABE, Yutaka (RIKEN Nishina Center)**Presenter:** Dr KAMIGAITO, Osamu (RIKEN Nishina Center)**Session Classification:** RADIOACTIVE ION BEAM FACILITIES**Track Classification:** Radioactive Ion Beam Facilities



Contribution ID: 34

Type: **Poster presentation**

## **Depth-profiling of the residual activity induced by high-energy uranium ions in thin stainless steel target**

**Primary author:** Mr STRASIK, Ivan (GSI Darmstadt, Germany on leave from FEI STU Bratislava, Slovakia)

**Co-authors:** Dr PLOTNIKOV, Andrey (GSI Darmstadt, Germany); Mr SMOLYAKOV, Andrey (GSI Darmstadt, Germany); Dr MUSTAFIN, Edil (GSI Darmstadt, Germany); Mr SCHUBERT, Elko (GSI Darmstadt, Germany); Dr FLOCH, Eric (GSI Darmstadt, Germany); Mr SEIDL, Tim (GSI Darmstadt, Germany)

**Presenter:** Dr MUSTAFIN, Edil (GSI Darmstadt, Germany)

Contribution ID: 35

Type: **Poster presentation**

## Overview of Ar beam induced desorption from different materials at TSL

**Primary author:** Dr MALYSHEV, Oleg (ASTeC, STFC Daresbury Laboratory)

**Co-authors:** Dr KRASNOV, Alexander (BINP, Novosibirsk); Dr KRAEMER, Andreas (GSI, Darmstadt); Dr ZAJEC, Bojan ("Jozef Stefan" Institute, Ljubljana); Dr HEDLUND, Emma (Uppsala University, Uppsala); Dr REICH-SPRENGER, Hartmut (GSI, Darmstadt); Dr KOLLMUS, Holger (GSI, Darmstadt); Prof. WESTERBERG, Lars (Uppsala University, Uppsala); Dr BELLACHIOMA, Maria Cristina (GSI, Darmstadt); Dr BENDER, Markus (Ludwig-Maximilians-Universität München); Dr LEANDERSON, Mats (KTH Physics, Stockholm)

**Presenter:** Dr MALYSHEV, Oleg (ASTeC, STFC Daresbury Laboratory)

Contribution ID: 36

Type: **Oral presentation**

## **The SPES project: an ISOL facility for exotic beams**

*Monday, June 8, 2009 12:30 PM (20 minutes)*

**Primary author:** PRETE, G. (INFN-LNL)

**Co-authors:** ANDRIGHETTO, A. (INFN-LNL); COVELLO, A. (INFN-Napoli e Università Federico II); DAINELLI, A. (INFN-LNL); GALATÁ, A. (INFN-LNL); LOMBARDI, A. (INFN-LNL); PISENT, A. (INFN-LNL); ZAFIROPOULOS, D. (INFN-LNL); FAGOTTI, E. (INFN-LNL); GRAMEGNA, F. (INFN-LNL); BAS-SATO, G. (INFN-LNL); BISOFFI, G. (INFN-LNL); ESPOSITO, J. (INFN-LNL); BIASETTO, L. (INFN-LNL); CAL-ABRETTA, L. (INFN-LNS); SARCHIAPONE, L. (INFN-LNL); CINAUSERO, M. (INFN-LNL); MANZO-LARO, M. (INFN-LNL); POGGI, M. (INFN-LNL); BENETTI, P. (INFN-Pavia e Università Pavia); FAVARON, P. (INFN-LNL); MASTINU, P. (INFN-LNL); POSOCCO, P. (INFN-LNL); SPES COLLABORATION ([www.lnl.infn.it/~spes/spesCollaboration](http://www.lnl.infn.it/~spes/spesCollaboration))

**Presenter:** PRETE, G. (INFN-LNL)

**Session Classification:** RADIOACTIVE ION BEAM FACILITIES

**Track Classification:** Radioactive Ion Beam Facilities

Contribution ID: 37

Type: **Poster presentation**

## **Fabrication of superconducting niobiu, resonators at IUAC**

**Primary author:** Mr POTUKUCHI, Prakash N. (Inter-University Accelerator Centre)

**Co-authors:** Mr RAI, Abhishek (Inter-University Accelerator Centre); Dr ROY, Amit (Inter-University Accelerator Centre); Dr KANJILAL, Dinakar (Inter-University Accelerator Centre); Mr ZACHARIAS, Jimson (Inter-University Accelerator Centre); Mr MISTRI, Kishore Kumar (Inter-University Accelerator Centre); Mr SONTI, Soma Sunder Kumar (Inter-University Accelerator Centre)

**Presenter:** Dr ROY, Amit (Inter-University Accelerator Centre)

Contribution ID: 38

Type: **Oral presentation**

## **Metal ion beam and beam transmission development at JYFL**

*Wednesday, June 10, 2009 12:50 PM (20 minutes)*

**Primary author:** Dr KOIVISTO, Hannu (University of Jyväskylä, Department of Physics)

**Co-authors:** Mr SAVONEN, Markus (University of Jyväskylä, Department of Physics); Dr TARVAINEN, Olli (University of Jyväskylä, Department of Physics); Mr ROPPONEN, Tommi (University of Jyväskylä, Department of Physics); Mr TOIVANEN, Ville (University of Jyväskylä, Department of Physics)

**Presenter:** Dr KOIVISTO, Hannu (University of Jyväskylä, Department of Physics)

**Session Classification:** ION SOURCES

**Track Classification:** Ion Sources and Ion Traps

Contribution ID: 39

Type: **Oral presentation**

## **Operational experience with the EXCYT facility**

*Monday, June 8, 2009 12:10 PM (20 minutes)*

**Primary author:** Dr RIFUGGIATO, Danilo (INFN-LNS)

**Co-authors:** Dr ROVELLI, Alberto (INFN-LNS); Dr PAPPALARDO, Alfio (INFN-LNS); Mr CHINES, Francesco (INFN-LNS); Dr CUTTONE, Giacomo (INFN-LNS); Dr CALABRETTA, Luciano (INFN-LNS); Dr CELONA, Luigi (INFN-LNS); Dr COSENTINO, Luigi (INFN-LNS); Dr RE, Maurizio (INFN-LNS); Dr FINOCCHIARO, Paolo (INFN-LNS)

**Presenter:** Dr RIFUGGIATO, Danilo (INFN-LNS)

**Session Classification:** RADIOACTIVE ION BEAM FACILITIES

**Track Classification:** Radioactive Ion Beam Facilities

Contribution ID: 40

Type: **Oral presentation**

## **A novel design of a cyclotron based accelerator system for multi-ion-therapy**

*Tuesday, June 9, 2009 2:40 PM (20 minutes)*

**Primary author:** Prof. SCHIPPERS, Jacobus Maarten (Paul Scherrer Institute)

**Co-authors:** Dr ADELMANN, Andreas (Paul Scherrer Institute); Dr HOMEYER, Heinrich (HMI, Berlin); Dr NEGRAZUS, Marco (Paul Scherrer Institute); Dr SEIDEL, Mike (Paul Scherrer Institute); Dr JOHO, Werner (Paul Scherrer Institute)

**Presenter:** Prof. SCHIPPERS, Jacobus Maarten (Paul Scherrer Institute)

**Session Classification:** CIRCULAR ACCELERATORS

**Track Classification:** Circular Machines

Contribution ID: 41

Type: **Poster presentation**

## **Reference Signal Generation with Direct Digital Synthesis for FAIR**

**Primary author:** Mr BOUSONVILLE, Michael (GSI)

**Presenter:** Mr BOUSONVILLE, Michael (GSI)



Contribution ID: 42

Type: **Oral presentation**

## **Superconducting ECR ion source development at LBNL**

*Wednesday, June 10, 2009 2:40 PM (20 minutes)*

**Primary author:** Dr LEITNER, Daniela (Lawrence Berkeley National Laboratory)

**Co-authors:** Dr LYNEIS, Claude (Lawrence Berkeley National Laboratory); Dr SABBI, GianLuca (Lawrence Berkeley National Laboratory); Dr FERRACIN, Paolo (Lawrence Berkeley National Laboratory); Dr CASPI, Shlomo (Lawrence Berkeley National Laboratory); Dr PRESTEMON, Soren (Lawrence Berkeley National Laboratory)

**Presenter:** Dr LEITNER, Daniela (Lawrence Berkeley National Laboratory)

**Session Classification:** ION SOURCES

**Track Classification:** Ion Sources and Ion Traps

Contribution ID: 43

Type: **Poster presentation**

## **Beam stability in synchrotrons with digital filters in the feedback loop of a transverse dumper**

**Primary author:** Dr ZHABITSKY, Vyacheslav (Joint Institute for Nuclear Research)

**Presenter:** Dr ZHABITSKY, Vyacheslav (Joint Institute for Nuclear Research)

Contribution ID: 44

Type: **Oral presentation**

## **HIE-ISOLDE LINAC: Status of the R&D activities**

*Thursday, June 11, 2009 11:00 AM (20 minutes)*

**Primary author:** PASINI, Matteo (CERN)

**Co-authors:** D'ELIA, Alessandro (Cockcroft Institute and Manchester University); MAGLIONI, Cesare (CERN and Manchester University); LINDROOS, Mats (CERN); FRASER, Matthew (CERN and Manchester University); TRILHE, Philippe (CERN); CALATRONI, Sergio (CERN); PARMA, Vittorio (CERN)

**Presenter:** PASINI, Matteo (CERN)

**Session Classification:** LINACS

**Track Classification:** Linacs

Contribution ID: 46

Type: **Oral presentation**

## **Progress on the commissioning of Radioactive Isotope Beam Factory at RIKEN Nishina Center**

*Monday, June 8, 2009 3:10 PM (20 minutes)*

**Primary author:** Dr YAMADA, Kazunari (RIKEN Nishina Center)

**Co-authors:** GOTO, Akira (RIKEN Nishina Center); IKEZAWA, Eiji (RIKEN Nishina Center); OKUNO, Hiroki (RIKEN Nishina Center); KUBOKI, Hironori (RIKEN Nishina Center); HASEBE, Hiroo (RIKEN Nishina Center); WATANABE, Hiroshi (RIKEN Nishina Center); OHNISHI, Junichi (RIKEN Nishina Center); KUMAGAI, Keiko (RIKEN Nishina Center); SUDA, Kenji (RIKEN Nishina Center); NAGASE, Makoto (RIKEN Nishina Center); FUJIMAKI, Masaki (RIKEN Nishina Center); WAKASUGI, Masanori (RIKEN Nishina Center); KASE, Masayuki (RIKEN Nishina Center); KOMIYAMA, Misaki (RIKEN Nishina Center); SAKAMOTO, Naruhiko (RIKEN Nishina Center); FUKUNISHI, Nobuhisa (RIKEN Nishina Center); KAMIGAITO, Osamu (RIKEN Nishina Center); YOKOUCHI, Shigeru (RIKEN Nishina Center); FUJINAWA, Tadashi (RIKEN Nishina Center); NAKAGAWA, Takahide (RIKEN Nishina Center); MAIE, Takeshi (RIKEN Nishina Center); WATANABE, Tamaki (RIKEN Nishina Center); YANO, Yasushige (RIKEN Nishina Center); HIGURASHI, Yoshihide (RIKEN Nishina Center); SATOU, Youichi (RIKEN Nishina Center); WATANABE, Yutaka (RIKEN Nishina Center)

**Presenter:** Dr YAMADA, Kazunari (RIKEN Nishina Center)

**Session Classification:** RADIOACTIVE ION BEAM FACILITIES

**Track Classification:** Radioactive Ion Beam Facilities

Contribution ID: 48

Type: **Oral presentation**

## Upgrade of the Bucharest FN Tandem Accelerator

*Tuesday, June 9, 2009 9:30 AM (20 minutes)*

**Primary author:** Dr DOBRESCU, Serban (National Institute for Physics and Nuclear Engineering (IFIN-HH))

**Co-authors:** Mr MOSU, Daniel Vasile (National Institute for Physics and Nuclear Engineering (IFIN-HH)); Mr MOISA, Dorin (National Institute for Physics and Nuclear Engineering (IFIN-HH)); Dr PAPUREANU, Sorin (National Institute for Physics and Nuclear Engineering (IFIN-HH)); Mr SAVA, Tiberiu (National Institute for Physics and Nuclear Engineering (IFIN-HH))

**Presenter:** Dr DOBRESCU, Serban (National Institute for Physics and Nuclear Engineering (IFIN-HH))

**Session Classification:** ELECTROSTATIC ACCELERATORS

**Track Classification:** Electrostatic Accelerators

Contribution ID: 51

Type: **Poster presentation**

## **Hollow cathode e-gun for EBIS in charge breeding experiment**

**Primary author:** Dr VARIALE, Vincenzo (BA-INFN)

**Co-authors:** Prof. RAINÒ, Antonio (Bari University, Physics Department); Dr KUSNETSOV, Genady (BINP-Novosibirsk); Dr BATASOVA, Marina (BINP-Novosibirsk); Prof. CLAUSER, Tarcisio (Bari University, Physics Department); Mr VALENTINO, Vincenzo (BA-INFN)

**Presenter:** Dr VARIALE, Vincenzo (BA-INFN)

Contribution ID: 52

Type: **Poster presentation**

## **Large bore ECR ion source with cylindrically comb-shaped magnetic fields configuration**

**Primary author:** Dr KATO, Yushi (Osaka Univ.)

**Co-authors:** Dr SATO, Fuminobu (Osaka Univ.); Prof. IIDA, Toshiyuki (Osaka Univ.)

**Presenter:** Dr KATO, Yushi (Osaka Univ.)

Contribution ID: 53

Type: **Oral presentation**

## **Dresden electron beam ion sources: latest developments**

*Wednesday, June 10, 2009 3:50 PM (20 minutes)*

**Primary author:** Dr ZSCHORNACK, Günter (Technische Universitaet Dresden, Institute of Applied Physics)

**Co-authors:** Mr SCHWAN, Andreas (DREEBIT GmbH Dresden); Dr ULLMANN, Falk (DREEBIT GmbH Dresden); Dr GROSSMANN, Frank (DREEBIT GmbH Dresden); Mr KRELLER, Martin (Technische Universitaet Dresden, Institute of Applied Physics); Mr SCHMIDT, Mike (DREEBIT GmbH Dresden); Mr HELLER, Rene (Forschungszentrum Dresden-Rossendorf, Institute of Ion Beam Physics and Materials Research); Mr KENTSCH, Ullrich (DREEBIT GmbH Dresden); Dr OVSYANNIKOV, Vladimir P. (DREEBIT GmbH Dresden)

**Presenter:** Dr ZSCHORNACK, Günter (Technische Universitaet Dresden, Institute of Applied Physics)

**Session Classification:** ION SOURCES

**Track Classification:** Ion Sources and Ion Traps



Contribution ID: 54

Type: **Poster presentation**

## **Status of electron beam ion sources for particle therapy**

**Primary author:** Dr ZSCHORNACK, Günter (Technische Universitaet Dresden, Institute of Applied Physics)

**Co-authors:** Mr SCHWAN, Andreas (DREEBIT GmbH Dresden); Mr TANKE, Eugene (Siemens AG Erlangen); Dr ULLMANN, Falk (DREEBIT GmbH Dresden); Dr GROSSMANN, Frank (DREEBIT GmbH Dresden); Dr URSCHUETZ, Peter (Siemens AG Erlangen); Dr OVSYANNIKOV, Vladimir P. (DREEBIT GmbH Dresden)

**Presenter:** Dr ZSCHORNACK, Günter (Technische Universitaet Dresden, Institute of Applied Physics)

Contribution ID: 55

Type: **Oral presentation**

## **“DIANA” - a new, deep-underground accelerator facility for astrophysics experiments**

*Tuesday, June 9, 2009 11:00 AM (20 minutes)*

**Primary author:** LEITNER, Matthaeus (Lawrence Berkeley National Laboratory)

**Co-authors:** CHAMPAGNE, Art (University of North Carolina); ILIADIS, Christian (University of North Carolina); TODD, Damon (Lawrence Berkeley National Laboratory); LEITNER, Daniela (Lawrence Berkeley National Laboratory); FAMIANO, Michael (Western Michigan University); WIESCHER, Michael (University of Notre Dame); VETTER, Paul (Lawrence Berkeley National Laboratory)

**Presenter:** LEITNER, Matthaeus (Lawrence Berkeley National Laboratory)

**Session Classification:** ELECTROSTATIC ACCELERATORS

**Track Classification:** Electrostatic Accelerators

Contribution ID: 56

Type: **Poster presentation**

## **Development of Treatment Planning Software for Carbon-ion Scanning at HIMAC**

**Primary author:** Dr INANIWA, Taku (National Institute of Radiological Sciences)

**Co-authors:** Dr NODA, Koji (National Institute of Radiological Sciences); Dr KANEMATSU, Nobuyuki (National Institute of Radiological Sciences); Dr MORI, Shinichiro (National Institute of Radiological Sciences); Mr SATO, Shinji (National Institute of Radiological Sciences); Dr FURUKAWA, Takuji (National Institute of Radiological Sciences); Dr KANAI, Tatsuaki (National Institute of Radiological Sciences)

**Presenter:** Dr INANIWA, Taku (National Institute of Radiological Sciences)

Contribution ID: 57

Type: **Poster presentation**

## **Development of raster scanning system at NIRS-HIMAC**

**Primary author:** Dr FURUKAWA, Takuji (National Institute of Radiological Sciences)

**Co-authors:** Dr NAGANO, Ai (National Institute of Radiological Sciences); Dr NODA, Koji (National Institute of Radiological Sciences); Mr SAOTOME, Naoya (National Institute of Radiological Sciences); Dr FUKUDA, Shigekazu (National Institute of Radiological Sciences); Dr MINOHARA, Shinichi (National Institute of Radiological Sciences); Dr MORI, Shinichiro (National Institute of Radiological Sciences); Mr SATO, Shinji (National Institute of Radiological Sciences); Dr INANIWA, Taku (National Institute of Radiological Sciences); Dr SHIRAI, Toshiyuki (National Institute of Radiological Sciences); Dr IWATA, Yoshiyuki (National Institute of Radiological Sciences); Mrs TAKEI, Yuka (National Institute of Radiological Sciences)

**Presenter:** Dr FURUKAWA, Takuji (National Institute of Radiological Sciences)

Contribution ID: 58

Type: **Poster presentation**

## **Lattice study of a compact synchrotron for carbon therapy**

**Primary author:** Mr YIM, Heejoong (Korea Institute of RAdiological and Medical Science)

**Presenter:** Mr YIM, Heejoong (Korea Institute of RAdiological and Medical Science)

Contribution ID: 59

Type: **Poster presentation**

## **Conceptual design of a radio frequency quadrupole for the heavy-ion medical facility**

**Primary author:** Mr HAHN, Garam (Korea Institute of Radiological and Medical Sciences)

**Co-author:** Dr AN, Dong Hyun (Korea Institute of Radiological and Medical Sciences)

**Presenter:** Mr HAHN, Garam (Korea Institute of Radiological and Medical Sciences)

Contribution ID: 60

Type: **Poster presentation**

## **Design study of the injection system of K120 Superconducting Cyclotron**

**Primary author:** Dr AN, Dong Hyun (Korea Institute of Radiological & Medical Sciences)

**Co-authors:** Mr KANG, Joonsun (Korea Institute of Radiological & Medical Sciences); Dr KIM, Yu-Seok (Korea Institute of Radiological & Medical Sciences)

**Presenter:** Dr AN, Dong Hyun (Korea Institute of Radiological & Medical Sciences)

Contribution ID: 61

Type: **Invited**

## The RI beams from the Tokai Radioactive Ion Accelerator Complex (TRIAC)

*Monday, June 8, 2009 11:00 AM (30 minutes)*

**Primary author:** Dr OSA, Akihiko (Japan Atomic Energy Agency)

**Co-authors:** Mr TAYAMA, Hidekazu (Japan Atomic Energy Agency); Prof. MIYATAKE, Hiroari (High Energy Accelerator Research Organization); Dr ISHIYAMA, Hironobu (High Energy Accelerator Research Organization); Mr KABUMOTO, Hiroshi (Japan Atomic Energy Agency); Dr NIKI, Kazuaki (High Energy Accelerator Research Organization); Mr KUTSUKAKE, Kenichi (Japan Atomic Energy Agency); Mr MATSUDA, Makoto (Japan Atomic Energy Agency); Mr NAKAMURA, Masahiko (Japan Atomic Energy Agency); Mr OKADA, Masashi (High Energy Accelerator Research Organization); Mr OYAIZU, Michihiro (High Energy Accelerator Research Organization); Dr IMAI, Nobuaki (High Energy Accelerator Research Organization); Mr ISHIZAKI, Nobuhiro (Japan Atomic Energy Agency); Prof. ARAI, Shigeaki (High Energy Accelerator Research Organization); Mr ABE, Shinichi (Japan Atomic Energy Agency); Dr JEONG, Sun-Chan (High Energy Accelerator Research Organization); Mr HANASHIMA, Susumu (Japan Atomic Energy Agency); Mr NAKANNOYA, Takamitsu (Japan Atomic Energy Agency); Mr ASOZU, Takuhiro (Japan Atomic Energy Agency); Dr ISHII, Tetsuro (Japan Atomic Energy Agency); Mr FUCHI, Yoshihide (High Energy Accelerator Research Organization); Mr TSUKIHASHI, Yoshihiro (Japan Atomic Energy Agency); Dr HIRAYAMA, Yoshikazu (High Energy Accelerator Research Organization); Mr OTOKAWA, Yoshinori (Japan Atomic Energy Agency); Dr WATANABE, Yutaka-X (High Energy Accelerator Research Organization)

**Presenter:** Dr OSA, Akihiko (Japan Atomic Energy Agency)

**Session Classification:** RADIOACTIVE ION BEAM FACILITIES

**Track Classification:** Radioactive Ion Beam Facilities



Contribution ID: 62

Type: **Oral presentation**

## Status of Construction and Commissioning of the GSI HITRAP Decelerator

*Friday, June 12, 2009 9:30 AM (20 minutes)*

**Primary author:** Prof. KESTER, Oliver (NSCL, Michigan State University, East Lansing, MI 48824, USA)

**Co-authors:** Dr SOKOLOV, Alexey (Gesellschaft für Schwerionenforschung, D-64291 Darmstadt, Germany); Prof. SCHEMPP, Alwin (Goethe Universität, D-60054 Frankfurt, Germany); Dr HOFMANN, Benjamin (Goethe Universität, D-60054 Frankfurt, Germany); Dr KOZHUHAROV, Christophor (Gesellschaft für Schwerionenforschung, D-64291 Darmstadt, Germany); Dr WINTERS, Danyal (Gesellschaft für Schwerionenforschung, D-64291 Darmstadt, Germany); Dr HERFURTH, Frank (Gesellschaft für Schwerionenforschung, D-64291 Darmstadt, Germany); Dr MAERO, Giancarlo (Gesellschaft für Schwerionenforschung, D-64291 Darmstadt, Germany); Dr VOROBYEV, Gleb (Gesellschaft für Schwerionenforschung, D-64291 Darmstadt, Germany); Prof. KLUGE, Hans-Jürgen (Gesellschaft für Schwerionenforschung, D-64291 Darmstadt, Germany); Mr PFISTER, Jochen (Goethe Universität, D-60054 Frankfurt, Germany); Mr DAHL, Ludwig (Gesellschaft für Schwerionenforschung, D-64291 Darmstadt, Germany); Mr KAISER, Michael (Gesellschaft für Schwerionenforschung, D-64291 Darmstadt, Germany); Dr GERHARD, Peter (Gesellschaft für Schwerionenforschung, D-64291 Darmstadt, Germany); Dr KOSZUDOWSKI, Stephen (Gesellschaft für Schwerionenforschung, D-64291 Darmstadt, Germany); Prof. STÖHLKER, Thomas (Gesellschaft für Schwerionenforschung, D-64291 Darmstadt, Germany); Prof. RATZINGER, Ulrich (Goethe Universität, D-60054 Frankfurt, Germany); Dr BARTH, Winfried (Gesellschaft für Schwerionenforschung, D-64291 Darmstadt, Germany); Prof. QUINT, Wolfgang (Gesellschaft für Schwerionenforschung, D-64291 Darmstadt, Germany); Mr VINZENZ, Wolfgang (Gesellschaft für Schwerionenforschung, D-64291 Darmstadt, Germany)

**Presenter:** Prof. KESTER, Oliver (NSCL, Michigan State University, East Lansing, MI 48824, USA)

**Session Classification:** LINACS

**Track Classification:** Linacs

Contribution ID: 63

Type: **Invited**

## **The GSI UNILAC Upgrade Program to Meet FAIR Requirements**

*Friday, June 12, 2009 9:00 AM (30 minutes)*

**Primary author:** Mr DAHL, Ludwig (GSI Darmstadt, Germany)

**Presenter:** Mr DAHL, Ludwig (GSI Darmstadt, Germany)

**Session Classification:** LINACS

**Track Classification:** Linacs

Contribution ID: 64

Type: **Oral presentation**

## **The SPES Project: research and development for the multi-foil direct target**

*Monday, June 8, 2009 12:50 PM (20 minutes)*

**Primary authors:** ANDRIGHETTO, Alberto (LNL); MENEGHETTI, Giovanni (University of Padua); BIASETTO, Lisa (LNL); MANZOLARO, Mattia (LNL)

**Co-authors:** SCARPA, Daniele (LNL); PRETE, Gianfranco (LNL); COLOMBO, Paolo (University of Padua); CARTURAN, Sara (LNL)

**Presenter:** MANZOLARO, Mattia (LNL)

**Session Classification:** RADIOACTIVE ION BEAM FACILITIES

**Track Classification:** Radioactive Ion Beam Facilities

Contribution ID: 65

Type: **Oral presentation**

## **RF system for heavy ion cyclotrons at RIKEN RIBF**

*Tuesday, June 9, 2009 12:50 PM (20 minutes)*

**Primary author:** Dr SAKAMOTO, NARUHIKO (Nishina Center, RIKEN)

**Co-authors:** Dr GOTO, AKIRA (Nishina Center, RIKEN); Dr OKUNO, HIROKI (Nishina Center, RIKEN); Dr YAMADA, KAZUNARI (Nishina Center, RIKEN); Dr SUDA, KENJI (Nishina Center, RIKEN); Dr KASE, MASAYUKI (Nishina Center, RIKEN); Dr KAMIGAITO, OSAMU (Nishina Center, RIKEN); Dr YASUSHIGE, YANO (Nishina Center, RIKEN)

**Presenter:** Dr SAKAMOTO, NARUHIKO (Nishina Center, RIKEN)

**Session Classification:** CIRCULAR ACCELERATORS

Contribution ID: 66

Type: **Oral presentation**

## **Status report and future development at FLNR JINR heavy ions accelerator complex**

*Tuesday, June 9, 2009 12:10 PM (20 minutes)*

**Primary author:** Dr GULBEKIAN, Georgij (JINR, Russia, Dubna)

**Co-authors:** Dr GIKAL, Boris (JINR, Russia, Dubna); Dr KALAGIN, Igor (JINR, Russia, Dubna); Dr KAZARINOV, Nikolay (JINR, Russia, Dubna)

**Presenter:** Dr GULBEKIAN, Georgij (JINR, Russia, Dubna)

**Session Classification:** CIRCULAR ACCELERATORS

**Track Classification:** Circular Machines

Contribution ID: 67

Type: **Oral presentation**

## **Development of beam current monitor with HTS SQUID and HTS current sensor**

*Wednesday, June 10, 2009 11:20 AM (20 minutes)*

**Primary author:** Dr WATANABE, Tamaki (RIKEN (The Institute of Physical and Chemical Research))

**Co-authors:** Mr KASE, Masayuki (RIKEN (The Institute of Physical and Chemical Research)); Dr FUKUNISHI, Nobuhisa (RIKEN (The Institute of Physical and Chemical Research)); Mr SASAKI, Yuichiro (RIKEN (The Institute of Physical and Chemical Research))

**Presenter:** Dr WATANABE, Tamaki (RIKEN (The Institute of Physical and Chemical Research))

**Session Classification:** APPLICATIONS AND ANCILLARY SYSTEMS

**Track Classification:** Applications

Contribution ID: 68

Type: **Oral presentation**

## **Development Activities at BARC-TIFR Pelletron Accelerator Facility**

*Tuesday, June 9, 2009 9:50 AM (20 minutes)*

**Primary author:** GUPTA ANIT K.

**Presenter:** GUPTA ANIT K.

**Session Classification:** ELECTROSTATIC ACCELERATORS

**Track Classification:** Electrostatic Accelerators

Contribution ID: 69

Type: **Invited**

## **Review on HI Accelerator for Hadrontherapy**

*Wednesday, June 10, 2009 9:30 AM (30 minutes)*

**Primary author:** Dr NODA, Koji (National Institute of Radiological Sciences)

**Presenter:** Dr NODA, Koji (National Institute of Radiological Sciences)

**Session Classification:** APPLICATIONS AND ANCILLARY SYSTEMS

**Track Classification:** Applications



Contribution ID: 70

Type: **Oral presentation**

## **Acceleration, Deceleration and Bunching of Stored and Cooled Ion Beams at the TSR, Heidelberg**

*Tuesday, June 9, 2009 3:50 PM (20 minutes)*

**Primary author:** Dr GRIESER, Manfred (Max Planck Institut für Kernphysik)

**Co-authors:** Prof. WOLF, Andreas (Max Planck Institut für Kernphysik); Prof. BLAUM, Klaus (Max Planck Institut für Kernphysik); Mr HORN, Kurt (Max Planck Institut für Kernphysik); Mr KOSCHORRECK, Oliver (Max Planck Institut für Kernphysik); Mr WERLE, Peter (Max Planck Institut für Kernphysik); Dr VON HAHN, Robert (Max Planck Institut für Kernphysik); Mr BASTERT, Robin (Max Planck Institut für Kernphysik); Dr REPNOW, Roland (Max Planck Institut für Kernphysik); Mr EPKING, Rolf (Max Planck Institut für Kernphysik)

**Presenter:** Dr GRIESER, Manfred (Max Planck Institut für Kernphysik)

**Session Classification:** CIRCULAR ACCELERATORS

**Track Classification:** Circular Machines

Contribution ID: 71

Type: **Oral presentation**

## Status of the Cryogenic Storage Ring

*Tuesday, June 9, 2009 4:10 PM (20 minutes)***Primary author:** Dr VON HAHN, Robert (Max-Planck-Institut für Kernphysik)**Co-authors:** Prof. WOLF, Andreas (Max-Planck-Institut für Kernphysik); Dr SCHROETER, Claus-Dieter (Max-Planck-Institut für Kernphysik); Prof. ZAJFMAN, Daniel (Weizmann Institute of Science); Prof. SCHWALM, Dirk (Max-Planck-Institut für Kernphysik); Dr ORLOV, Dmitry (Max-Planck-Institut für Kernphysik); Mr LAUX, Felix (Max-Planck-Institut für Kernphysik); Mr FELLENERBERGER, Florian (Max-Planck-Institut für Kernphysik); Prof. QUACK, Hans (Technical University Dresden); Prof. ULLRICH, Joachim (Max-Planck-Institut für Kernphysik); Dr CRESPO LOPEZ-URRUTIA, Jose R. (Max-Planck-Institut für Kernphysik); Prof. BLAUM, Klaus (Max-Planck-Institut für Kernphysik); Dr GRIESER, Manfred (Max-Planck-Institut für Kernphysik); Dr LANGE, Michael (Max-Planck-Institut für Kernphysik); Dr RAPPAPORT, Michael (Weizmann Institute of Science); Mr FROESE, Mike (Max-Planck-Institut für Kernphysik); Dr REPNOW, Roland (Max-Planck-Institut für Kernphysik); Mr MENK, Sebastian (Max-Planck-Institut für Kernphysik); Dr SIEBER, Thomas (Max-Planck-Institut für Kernphysik); Prof. URBAIN, Xavier (Université Catholique de Louvain)**Presenter:** Dr VON HAHN, Robert (Max-Planck-Institut für Kernphysik)**Session Classification:** CIRCULAR ACCELERATORS**Track Classification:** Circular Machines

Contribution ID: 72

Type: **Oral presentation**

## **Acceleration of heavy ions generated by ECR and EBIS**

*Wednesday, June 10, 2009 3:30 PM (20 minutes)*

**Primary author:** Prof. BECKER, Reinard (IAP, Universität Frankfurt, Germany)

**Co-author:** Prof. KESTER, Oliver (NSCL,MSU,USA)

**Presenter:** Prof. BECKER, Reinard (IAP, Universität Frankfurt, Germany)

**Session Classification:** ION SOURCES

**Track Classification:** Radioactive Ion Beam Facilities

Contribution ID: 73

Type: **Oral presentation**

## **The radiation assurance test facility at INFN-LNS Catania**

*Wednesday, June 10, 2009 11:00 AM (20 minutes)*

**Primary author:** ALPAT, Ali Behcet (INFN Sezione di Perugia)

**Co-authors:** RIFUGGIATO, Danilo (Laboratori Nazionali del Sud dell'INFN); CARAFFINI, Diego (MAPRAD srl, Perugia, Italy); BIZZARRI, Fabrizio (MAPRAD srl, Perugia, Italy); RENZI, Francesca (MAPRAD srl, Perugia, Italy); FERRERA, Francesco (Laboratori Nazionali del Sud dell'INFN); DENIZLI, Haluk (Abant İzzet Baysal Universitesi, Bolu, Turkey); LATTUADA, Marcello (Laboratori Nazionali del Sud dell'INFN); MENICHELLI, Mauro (INFN Sezione di Perugia); AMUTKAN, Ozge (Ortadogu Teknik Universitesi, Ankara, Turkey); CIRRONE, Pablo (Laboratori Nazionali del Sud dell'INFN); FINOCCHIARO, Paolo (Laboratori Nazionali del Sud dell'INFN); FIGUERA, Pierpaolo (Laboratori Nazionali del Sud dell'INFN); HARBOE-SORENSEN, Reno (ESTEC/ESA)

**Presenter:** ALPAT, Ali Behcet (INFN Sezione di Perugia)

**Session Classification:** APPLICATIONS AND ANCILLARY SYSTEMS

**Track Classification:** Applications

Contribution ID: 74

Type: **Oral presentation**

## **Ion Sources at the Michigan Ion Beam Laboratory: Capabilities and Performance**

*Wednesday, June 10, 2009 4:10 PM (20 minutes)*

**Primary author:** Dr TOADER, Ovidiu (University of Michigan)

**Co-author:** Dr NAAB, Fabian (University of Michigan)

**Presenter:** Dr NAAB, Fabian (University of Michigan)

**Session Classification:** ION SOURCES

**Track Classification:** Ion Sources and Ion Traps

Contribution ID: 75

Type: **Poster presentation**

## **Beam Diagnostics in the CNAO Injection Lines commissioning**

**Primary author:** Dr BALBINOT, giovanni (cnao)

**Co-authors:** Dr PARRAVICINI, anna (cnao); Dr BISCARI, caterina (ifn); Dr BRESSI, erminia (cnao); Dr BOSSER, jacques (cern); Mr LANZAVECCHIA, lorenzo (cnao); Dr PULLIA, marco (cnao); Mr SPAIRANI, massimo (cnao); Dr CALDARA, michele (cnao)

**Presenter:** Dr PARRAVICINI, anna (cnao)

Contribution ID: 76

Type: **Oral presentation**

## **ReA3, the new reaccelerated beam facility at MSU/NSCL**

*Monday, June 8, 2009 11:30 AM (20 minutes)*

**Primary author:** DOLEANS, Marc (National Superconducting Cyclotron Laboratory)

**Co-authors:** MARTI, Felix (National Superconducting Cyclotron Laboratory); KESTER, Oliver (National Superconducting Cyclotron Laboratory); ZHAO, Qiang (National Superconducting Cyclotron Laboratory); YORK, Richard (National Superconducting Cyclotron Laboratory); HARTUNG, Walter (National Superconducting Cyclotron Laboratory); WU, Xiaoyu (National Superconducting Cyclotron Laboratory)

**Presenter:** DOLEANS, Marc (National Superconducting Cyclotron Laboratory)

**Session Classification:** RADIOACTIVE ION BEAM FACILITIES

**Track Classification:** Radioactive Ion Beam Facilities

Contribution ID: 77

Type: **Poster presentation**

## **Approach to 2 dimensional laser cooling and its optical observation system**

**Primary author:** NODA, Akira (Institute for CHemical Research, Kyoto University)

**Co-authors:** Dr SMIRNOV, Alexander (JINR); Mr SOUDA, Hikaru (ICR, Kyoto University); TONGU, Hiromu (ICR, Kyoto University); Dr JINBO, Kouichi (Institute for Advanced Energy, Kyoto University); Dr GRIESER, Manfred (Max-Planck-Institute fuer Kernphysik); Mr NAKAO, Masao (ICR, Kyoto University); Dr SHIRAI, Toshiyuki (National Institute of Radiological Sciences)

**Presenter:** NODA, Akira (Institute for CHemical Research, Kyoto University)



Contribution ID: 78

Type: **Oral presentation**

## **Multiple charge state ion beam acceleration with an RFQ LINAC**

*Thursday, June 11, 2009 12:00 PM (20 minutes)*

**Primary author:** TAMURA, Jun (Tokyo Institute of Technology)

**Co-authors:** KASHIWAGI, Hirotsugu (Japan Atomic Energy Agency); OKAMURA, Masahiro (Brookhaven National Laboratory); HAYASHIZAKI, Noriyosu (Tokyo Institute of Technology); KANESUE, Takeshi (Tokyo Institute of Technology); ITO, Taku (Tokyo Institute of Technology); ISHIBASHI, Takuya (Tokyo Institute of Technology); HATTORI, Toshiyuki (Tokyo Institute of Technology)

**Presenter:** TAMURA, Jun (Tokyo Institute of Technology)

**Session Classification:** LINACS

**Track Classification:** Linacs

Contribution ID: 79

Type: **Oral presentation**

## **Frequency Tuning and RF Systems for the ATLAS Energy Upgrade SC Cavities**

*Thursday, June 11, 2009 9:50 AM (20 minutes)*

**Primary author:** ZINKANN, Gary (Argonne National Laboratory)

**Co-authors:** FUERST, J. D. (Argonne National Laboratory); SHEPARD, K. W. (TechSource, Inc.); KEDZIE, M. (Argonne National Laboratory); KELLY, M. P. (Argonne National Laboratory); OSTROUMOV, P. N. (Argonne National Laboratory); PARDO, R. C. (Argonne National Laboratory); MACDONALD, S. (Argonne National Laboratory); SHARAMENOV, S. (Argonne National Laboratory); GERBICK, S. M. (Argonne National Laboratory); CONWAY, Z. (Presently at Cornell University)

**Presenter:** ZINKANN, Gary (Argonne National Laboratory)

**Session Classification:** LINACS

**Track Classification:** Linacs

Contribution ID: 80

Type: **Oral presentation**

## **Initial Results of the ECR Charge Breeder for the <sup>252</sup>Cf Fission Source Project (CARIBU) at ATLAS**

*Wednesday, June 10, 2009 12:10 PM (20 minutes)*

**Primary author:** VONDRASEK, Richard (Argonne National Laboratory)

**Co-authors:** CARR, John (Argonne National Laboratory); PARDO, Richard (Argonne National Laboratory); SCOTT, Robert (Argonne National Laboratory)

**Presenter:** VONDRASEK, Richard (Argonne National Laboratory)

**Session Classification:** ION SOURCES

**Track Classification:** Ion Sources and Ion Traps

Contribution ID: **81**

Type: **Oral presentation**

## **Development of heavy ion accelerator and associated systems**

*Thursday, June 11, 2009 11:20 AM (20 minutes)*

**Primary author:** Dr KANJILAL, Dinakar (Inter University Accelerator Centre (IUAC), Aruna Asaf Ali Marg, New Delhi 110067)

**Presenter:** Dr KANJILAL, Dinakar (Inter University Accelerator Centre (IUAC), Aruna Asaf Ali Marg, New Delhi 110067)

**Session Classification:** LINACS

**Track Classification:** Linacs

Contribution ID: 83

Type: **Poster presentation**

## **Novel Modes of Vacuum Discharge in Magnetic Field as the Base for Effective Ion Generation**

**Primary author:** Dr CHERENSHCHYKOV, Sergiy (Institute of High Energy Physics and Nuclear Physics of National Science Center “Kharkov Institute of Physics and Technology”)

**Presenter:** Dr CHERENSHCHYKOV, Sergiy (Institute of High Energy Physics and Nuclear Physics of National Science Center “Kharkov Institute of Physics and Technology”)

Contribution ID: 84

Type: **Oral presentation**

## **First Beam Tests of the <sup>252</sup>Cf CARIBU Project**

*Monday, June 8, 2009 11:50 AM (20 minutes)*

**Primary author:** Dr PARDO, Richard C. (Argonne National Laboratory)

**Co-authors:** DAVIDS, Cary N. (Argonne National Laboratory); PHILLIPS, Donald R. (Argonne National Laboratory); ZINKANN, Gary P. (Argonne National Laboratory); VONDRASEK, Richard C. (Argonne National Laboratory); BAKER, Samuel I. (Argonne National Laboratory)

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

**Session Classification:** RADIOACTIVE ION BEAM FACILITIES

**Track Classification:** Radioactive Ion Beam Facilities

Contribution ID: 85

Type: **Oral presentation**

## **The refinement of REX-ISOLDE**

*Monday, June 8, 2009 3:50 PM (20 minutes)*

**Primary author:** WENANDER, Fredrik (CERN)

**Co-authors:** HERLERT, Alexander (CERN); GUSTAFSSON, Anna (CERN); VOULOT, Didier (CERN); VAN DE WALLE, Jarno (CERN); SCRIVENS, Richard (CERN)

**Presenter:** WENANDER, Fredrik (CERN)

**Session Classification:** RADIOACTIVE ION BEAM FACILITIES

**Track Classification:** Radioactive Ion Beam Facilities

Contribution ID: 86

Type: **Oral presentation**

## **Commissioning of the ATLAS Upgrade Cryomodule**

*Thursday, June 11, 2009 9:30 AM (20 minutes)*

**Primary author:** Dr OSTROUMOV, Peter (Argonne National Laboratory)

**Co-authors:** Mr ZINKANN, Gary (ANL); Mr FUERST, Joel (ANL); Dr SHEPARD, Kenneth (ANL); Mr KEDZIE, Mark (ANL); Dr KELLY, Michael (ANL); Dr PARDO, Richard (ANL); Mr GERBICK, Scott (ANL); Mr SHARAMENOV, Sergey (ANL); Mr MACDONALD, Stephen (ANL)

**Presenter:** Dr OSTROUMOV, Peter (Argonne National Laboratory)

**Session Classification:** LINACS

**Track Classification:** Linacs



Contribution ID: 87

Type: **Oral presentation**

## **Progress of an accelerator mass spectrometry system on the TSUKUBA 12UD Pelletron Tandem accelerator**

*Tuesday, June 9, 2009 11:20 AM (20 minutes)*

**Primary author:** Dr SASA, Kimikazu (University of Tsukuba)

**Co-authors:** Dr MATSUMURA, Hiroshi (KEK); Dr SUEKI, Keisuke (University of Tsukuba); Dr BESSHO, Kotaro (KEK); Dr KINOSHITA, Norikazu (KEK); Mr AMANO, Takahiro (University of Tsukuba); Dr OKI, Toshiyuki (University of Tsukuba); Mr TAKAHASHI, Tsutomu (University of Tsukuba); Prof. NAGASHIMA, Yasuo (University of Tsukuba); Dr MATSUSHI, Yuki (The University of Tokyo); Dr TOSAKI, Yuki (University of Tsukuba)

**Presenter:** Dr SASA, Kimikazu (University of Tsukuba)

**Session Classification:** ELECTROSTATIC ACCELERATORS

**Track Classification:** Electrostatic Accelerators

Contribution ID: 88

Type: **Poster presentation**

## **Upgrade of the Control System for the ALPI Cryogenic Distribution Plant.**

**Primary author:** Dr CANELLA, Stefania (LNL)

**Co-authors:** Mr CALORE, Andrea (LNL); Mr BELTRAMIN, Antonio (LNL); Mr POLETTI, Fabio (LNL); Mr MODANESE, Paolo (LNL); Mr CONTRAN, Tiziano (LNL)

**Presenter:** Dr CANELLA, Stefania (LNL)

Contribution ID: 89

Type: **Poster presentation**

## **Upgrade and commissioning of the PIAVE-ALPI ECR Injector at LNL**

**Primary author:** Dr GALATA', Alessio (INFN/LNL)

**Co-authors:** Dr FACCO, Alberto (INFN/LNL); Dr LOMBARDI, Augusto (INFN/LNL); Mr ANDREA, Dainese (INFN/LNL); Mr MANIERO, Denis (INFN/LNL); Dr SCARPA, Fabio (INFN/LNL); Mr BERTAZZO, Livio (INFN/LNL); Mr SATTIN, Manuele (INFN/LNL); Dr POGGI, Marco (INFN/LNL); Mr CONTRAN, Stefano (INFN/LNL)

**Presenter:** Dr GALATA', Alessio (INFN/LNL)

Contribution ID: 90

Type: **Oral presentation**

## **Improved on line performance of the installed ALPI Nb sputtered QWRs**

*Friday, June 12, 2009 9:50 AM (20 minutes)*

**Primary author:** Dr PORCELLATO, Anna Maria (LNL)

**Co-authors:** Mr STIVANELLO, Fabrizio (LNL); Dr CHIURLOTTO, Francesca (LNL); Mr BOSCAGLI, Lucia (LNL); Dr STARK, Serguei (LNL)

**Presenter:** Dr PORCELLATO, Anna Maria (LNL)

**Session Classification:** LINACS

**Track Classification:** Linacs

Contribution ID: 91

Type: **Poster presentation**

## **Wide bandwidth, low cost system for cavity measurements**

**Primary author:** Dr STARK, Serguei (LNL)

**Presenter:** Dr STARK, Serguei (LNL)

Contribution ID: 92

Type: **Poster presentation**

## **Study and test on the 1+ ion source of the SPES project**

**Primary authors:** ANDRIGHETTO, Alberto (LNL); MENEGHETTI, Giovanni (University of Padua); BIASETTO, Lisa (LNL); MANZOLARO, Mattia (LNL); LIBRALATO, Mirko (LNL)

**Co-authors:** SCARPA, Daniele (LNL); PRETE, Gianfranco (LNL); COLOMBO, Paolo (University of Padua); CARTURAN, Sara (LNL)

**Presenter:** LIBRALATO, Mirko (LNL)

Contribution ID: 93

Type: **Invited**

## **Operation status of High Intensity Ion Beams at GANIL**

*Tuesday, June 9, 2009 11:40 AM (30 minutes)*

**Primary author:** Dr CHAUTARD, Frédéric (CNRS)

**Co-author:** Mr SENEAL, Gilles (CEA)

**Presenter:** Dr CHAUTARD, Frédéric (CNRS)

**Session Classification:** CIRCULAR ACCELERATORS

**Track Classification:** Circular Machines

Contribution ID: 94

Type: **Poster presentation**

## **GANIL High Intensity Transport Safety System**

**Primary authors:** Mr JAMET, Christophe (GANIL); Mr SENEAL, Gilles (GANIL)

**Co-authors:** Mr DUCOUDRET, Bernard (GANIL); Mr DOUTRESSOULLES, Clément (GANIL); Mr PETIT, Eric (GANIL); Mr SWARTVAGHER, Eric (GANIL); Mr BAELDE, Jean Louis (GANIL); Mr ANGER, Pascal (GANIL); Mr ANDRE, Thierry (GANIL)

**Presenter:** Mr SENEAL, Gilles (GANIL)



Contribution ID: 95

Type: **Poster presentation**

## **A new access control unit for GANIL and SPIRAL 2**

**Primary author:** Mr BAELDE, Jean-louis (GANIL)

**Co-authors:** Mr BERTHE, Cyrille (GANIL); Mr ROZÉ, Jean-François (GANIL)

**Presenter:** Mr BAELDE, Jean-louis (GANIL)

Contribution ID: 96

Type: **Poster presentation**

## **Irradiation control of the "SPIRAL1" target by measuring the ion beam intensity: "CICS" Project**

**Primary author:** Mr ANGER, pascal (GANIL)

**Co-authors:** Mr JACQUOT, Bertrand (GANIL); Mr DOUTRESSOULLES, Clement (GANIL); Mrs MAUGER, Clothilde (GANIL); Mr BUCAILLE, Frederic (GANIL); Mr DEROY, Jean-Claude (GANIL); Mr ROZÉ, Jean-François (GANIL); Mr BAELDE, Jean-louis (GANIL); Mr OZILLE, Michel (GANIL); Mr DUBOIS, Mickael (GANIL); Mrs FAURE, Sophie (GANIL)

**Presenter:** Mr BAELDE, Jean-louis (GANIL)

Contribution ID: 97

Type: **Oral presentation**

## **Laser accelerated ions and their potential use for therapy accelerators**

*Friday, June 12, 2009 11:30 AM (20 minutes)*

**Primary author:** Prof. HOFMANN, Ingo (GSI Darmstadt)

**Presenter:** Prof. HOFMANN, Ingo (GSI Darmstadt)

**Session Classification:** GENERAL TOPICS

**Track Classification:** General Topics

Contribution ID: 98

Type: **Poster presentation**

## Commissioning of the CNAO LEBT and Sources

**Primary author:** Dr PARRAVICINI, Anna (CNAO Foundation)

**Co-authors:** PORTALUPI, Alberto (CNAO Foundation); Dr REITER, Andreas (GSI); FERRARI, Anna (CNAO Foundation); Dr SCHLITT, Bernhard (GSI); Dr RONCOLATO, Carlo (INFN/LNL); Dr BISCARI, Caterina (INFN/LNF); Dr SANELLI, Claudio (INFN/LNS); PRIANO, Cristiana (CNAO Foundation); Dr BIANCULLI, Davide (CNAO Foundation); CHIESA, Emanule (CNAO Foundation); VACCHIERI, Enrico (CNAO Foundation); Dr BRESSI, Erminia (CNAO Foundation); GENERANI, Fabio (CNAO Foundation); Dr MAIMONE, Fabio (INFN/LNS); GERARDI, Franco (CNAO Foundation); BURATO, Gabriele (CNAO Foundation); BUTELLA, Giorgio (CNAO Foundation); Dr BALBINOT, Giovanni (CNAO Foundation); Dr CIAVOLA, Giovanni (INFN/LNS); VENCHI, Giuseppe (CNAO Foundation); LANZAVECCHIA, Lorenzo (CNAO Foundation); FROSINI, Lucia (CNAO Foundation); FALBO, Luciano (CNAO Foundation); Dr CELONA, Luigi (INFN/LNS); PEZZETTA, Marco (CNAO Foundation); Dr PULLIA, Marco (CNAO Foundation); SCOTTI, Marco (CNAO Foundation); SPAIRANI, Massimo (CNAO Foundation); Dr CALDARA, Michele (CNAO Foundation); NODARI, Mirco (CNAO Foundation); MONFERRATO, Riccardo (CNAO Foundation); Dr GAMMINO, Santo (INFN/LNS); Dr VITULLI, Silvia (CNAO Foundation); Dr ALPEGIANI, Stefano (CNAO Foundation); MUTTI, Viviana (CNAO Foundation)

**Presenter:** Dr PARRAVICINI, Anna (CNAO Foundation)

Contribution ID: 99

Type: **Oral presentation**

## **Status of linac beam commissioning for the Italian Hadron Therapy Center CNAO**

*Thursday, June 11, 2009 12:40 PM (20 minutes)*

**Primary author:** Dr POSOCCO, Piero Antonio (Consorzio RFX - INFN/LNL)

**Co-authors:** Dr PISENT, Andrea (INFN/LNL); Dr REITER, Andreas (GSI); Dr PARRAVICINI, Anna (CNAO Foundation); Dr SCHLITT, Bernhard (GSI); Dr RONCOLATO, Carlo (INFN/LNL); Dr BISCARI, Caterina (INFN/LNF); Dr SANELLI, Claudio (INFN/LNF); Dr BRESSI, Emilia (CNAO Foundation); Mr VACCHIERI, Enrico (CNAO Foundation); Dr CLEMENTE, Gianluigi (GSI); Dr BALBINOT, Giovanni (CNAO Foundation); Dr CIAVOLA, Giovanni (INFN/LNS); Dr VORMANN, Hartmut (GSI); Dr KLEFFNER, Karl Michael (GSI); Dr PULLIA, Marco (CNAO Foundation); Dr MAIER, Michael (GSI); Dr CALDARA, Michele (CNAO Foundation); Dr GAMMINO, Santo (INFN/LNS); Dr VITULLI, Silvia (CNAO Foundation)

**Presenter:** Dr POSOCCO, Piero Antonio (Consorzio RFX - INFN/LNL)

**Session Classification:** LINACS

**Track Classification:** Linacs

Contribution ID: **100**

Type: **Invited**

## **Radiological safety aspects of the design of the RNB facilities**

*Monday, June 8, 2009 2:40 PM (30 minutes)*

**Primary author:** Dr ENE, Daniela (CEA, IRFU/SPhN, Saclay, France)

**Co-authors:** DORÉ, D. (CEA, IRFU/SPhN, Saclay, France); RIDIKAS, D. (CEA, IRFU/SPhN, Saclay, France); DAVID, J.-C. (CEA, IRFU/SPhN, Saclay, France)

**Presenter:** Dr ENE, Daniela (CEA, IRFU/SPhN, Saclay, France)

**Session Classification:** RADIOACTIVE ION BEAM FACILITIES

**Track Classification:** Radioactive Ion Beam Facilities

Contribution ID: **101**

Type: **Oral presentation**

## **Operational experience in PIAVE-ALPI complex**

*Friday, June 12, 2009 10:10 AM (20 minutes)*

**Primary author:** Dr FAGOTTI, Enrico (Consorzio RFX - INFN/LNL)

**Co-authors:** Dr FACCO, Alberto (INFN/LNL); Dr GALATA', Alessio (INFN/LNL); Dr BATTISTELLA, Andrea (INFN/LNL); Dr PISENT, Andrea (INFN/LNL); Dr PORCELLATO, Anna Maria (INFN/LNL); Dr LOMBARDI, Augusto (INFN/LNL); Dr RONCOLATO, Carlo (INFN/LNL); Dr CARLUCCI, Davide (INFN/LNL); Dr MOISIO, Francesca (INFN/LNL); Dr BASSATO, Giorgio (INFN/LNL); Dr BISOFFI, Giovanni (INFN/LNL); Dr CAVENAGO, Marco (INFN/LNL); Dr POGGI, Marco (INFN/LNL); Dr COMUNIAN, Michele (INFN/LNL); Dr MODANESE, Paolo (INFN/LNL); Dr POSOCCO, Piero Antonio (Consorzio RFX - INFN/LNL); Dr STARK, Serguey (INFN/LNL); Dr CANELLA, Stefania (INFN/LNL)

**Presenter:** Dr FAGOTTI, Enrico (Consorzio RFX - INFN/LNL)

**Session Classification:** LINACS

**Track Classification:** Linacs

Contribution ID: **102**

Type: **Poster presentation**

## **High current ion sources, beam diagnostics and emittance measurement**

**Primary author:** Dr CAVENAGO, Marco (INFN/LNL)

**Co-authors:** Dr FAGOTTI, Enrico (INFN/LNL); Dr POGGI, Marco (INFN/LNL); Dr COMUNIAN, Michele (INFN/LNL); PETRENKO, S (ITEP, Moscow - Russia); KULEVOY, T (ITEP, Moscow - Russia)

**Presenter:** Dr CAVENAGO, Marco (INFN/LNL)



Contribution ID: **103**

Type: **Invited**

## **Latest developments in ECR Charge Breeders**

*Wednesday, June 10, 2009 11:40 AM (30 minutes)*

**Primary author:** LAMY, Thierry (Laboratoire de Physique Subatomique et de Cosmologie, UJF Grenoble 1, CNRS/IN2P3, INPG, Grenoble, France)

**Presenter:** LAMY, Thierry (Laboratoire de Physique Subatomique et de Cosmologie, UJF Grenoble 1, CNRS/IN2P3, INPG, Grenoble, France)

**Session Classification:** ION SOURCES

**Track Classification:** Ion Sources and Ion Traps

Contribution ID: **104**

Type: **Invited**

## **Nuclear Physics Perspectives with next-generation RNB Facilities**

*Monday, June 8, 2009 9:30 AM (30 minutes)*

**Primary author:** BOLLEN, Georg (Michigan State University)

**Presenter:** BOLLEN, Georg (Michigan State University)

**Session Classification:** GENERAL TOPICS

**Track Classification:** General Topics

Contribution ID: **105**

Type: **Invited**

## **A High-Performance Electron Beam Ion Source**

*Wednesday, June 10, 2009 3:00 PM (30 minutes)*

**Primary author:** ALESSI, James (Collider-Accelerator Department, Brookhaven National Laboratory)

**Presenter:** ALESSI, James (Collider-Accelerator Department, Brookhaven National Laboratory)

**Session Classification:** ION SOURCES

**Track Classification:** Ion Sources and Ion Traps

Contribution ID: 106

Type: **Poster presentation**

## **NDCX-II, a new induction linear accelerator project for warm dense matter research**

**Primary author:** LEITNER, M. (Lawrence Berkeley National Laboratory)

**Co-authors:** FRIEDMAN, A. (Lawrence Livermore National Laboratory); GILSON, E. (Princeton Plasma Physics Laboratory); BIENIOSEK, F. (Lawrence Berkeley National Laboratory); LOGAN, G. (Lawrence Berkeley National Laboratory); KWAN, J. (Lawrence Berkeley National Laboratory); WALDRON, W. (Lawrence Berkeley National Laboratory)

**Presenter:** LEITNER, M. (Lawrence Berkeley National Laboratory)

Contribution ID: **107**

Type: **Invited**

## **New and Improved AMS Facilities**

*Wednesday, June 10, 2009 10:00 AM (30 minutes)*

**Primary author:** SYNAL, Hans-Arno (Laboratory of Ion Beam Physics, ETH Zurich, Switzerland)

**Presenter:** SYNAL, Hans-Arno (Laboratory of Ion Beam Physics, ETH Zurich, Switzerland)

**Session Classification:** APPLICATIONS AND ANCILLARY SYSTEMS

**Track Classification:** Applications

Contribution ID: **108**

Type: **Invited**

## **Present and Future of Electrostatic Accelerators**

*Tuesday, June 9, 2009 9:00 AM (30 minutes)*

**Primary author:** Dr WEISSER, David (Department of Nuclear Physics, Research School of Physics and Engineering, Australian National University)

**Presenter:** Dr WEISSER, David (Department of Nuclear Physics, Research School of Physics and Engineering, Australian National University)

**Session Classification:** ELECTROSTATIC ACCELERATORS

**Track Classification:** Electrostatic Accelerators

Contribution ID: **109**

Type: **Oral presentation**

## **Performances of the ISAC Heavy Ion Linacs**

*Thursday, June 11, 2009 10:10 AM (20 minutes)*

**Primary author:** MARCHETTO, Marco (TRIUMF, Canada)

**Presenter:** MARCHETTO, Marco (TRIUMF, Canada)

**Session Classification:** LINACS

**Track Classification:** Linacs

Contribution ID: 110

Type: **Poster presentation**

## **The Light Ion Guide CB-ECRIS project at the Texas A&M University Cyclotron Institute**

**Primary author:** Dr TABACARU, Gabriel (Cyclotron Institute - Texas A&M University)

**Co-authors:** MAY, D.P. (Cyclotron Institute, Texas A&M University); ABEGGLEN, F. (Cyclotron Institute, Texas A&M University); CHUBARYAN, G. (Cyclotron Institute, Texas A&M University); KIM, G. (Cyclotron Institute, Texas A&M University); SOULIOTIS, G. (Cyclotron Institute, Texas A&M University); CLARK, H. L. (Cyclotron Institute, Texas A&M University); ARJE, J. (JYFL, Jyväskylä, Finland)

**Presenter:** Dr TABACARU, Gabriel (Cyclotron Institute - Texas A&M University)



Contribution ID: 111

Type: **Invited**

## **Heavy Ion Superconducting Linacs: new machines and new upgrades**

*Thursday, June 11, 2009 9:00 AM (30 minutes)*

**Primary author:** Dr LAXDAL, Robert (TRIUMF, Canada)

**Presenter:** Dr LAXDAL, Robert (TRIUMF, Canada)

**Session Classification:** LINACS

**Track Classification:** Linacs

Contribution ID: 112

Type: **Invited**

## **Complementarity of new RNB Facilities and their Technological Challenges**

*Monday, June 8, 2009 10:00 AM (30 minutes)*

**Primary author:** NOLEN, Jerry (Physics Division, ANL)

**Presenter:** NOLEN, Jerry (Physics Division, ANL)

**Session Classification:** RADIOACTIVE ION BEAM FACILITIES

**Track Classification:** Radioactive Ion Beam Facilities

Contribution ID: 113

Type: **Invited**

## **Medical application of Hadrontherapy**

*Wednesday, June 10, 2009 9:00 AM (30 minutes)*

**Primary author:** HUG, Eugen (Center for Proton Therapy at Paul Scherrer Institute, Villigen, Switzerland)

**Presenter:** HUG, Eugen (Center for Proton Therapy at Paul Scherrer Institute, Villigen, Switzerland)

**Session Classification:** APPLICATIONS AND ANCILLARY SYSTEMS

**Track Classification:** Applications

Contribution ID: 114

Type: **Invited**

## **Towards GeV Laser-driven ion acceleration**

*Friday, June 12, 2009 11:00 AM (30 minutes)*

**Primary author:** HEGELICH, B. Manuel (Los Alamos National Laboratory, Los Alamos, USA and Ludwig-Maximilian Universität München, München, Germany)

**Presenter:** HEGELICH, B. Manuel (Los Alamos National Laboratory, Los Alamos, USA and Ludwig-Maximilian Universität München, München, Germany)

**Session Classification:** GENERAL TOPICS

**Track Classification:** General Topics

Contribution ID: 115

Type: **Poster presentation**

## **Accelerator mass spectrometry for long-lived heavy ion $^{236}\text{U}$ at CIAE**

**Primary author:** Dr WANG, Xianggao (China Institute of Atomic Energy, Beijing, China)

**Co-authors:** Dr LI, Chaoli (China Institute of Atomic Energy, Beijing, China); Dr SHEN, Hongtao (China Institute of Atomic Energy, Beijing, China); Dr HE, Ming (China Institute of Atomic Energy, Beijing, China); Dr YOU, Qubo (China Institute of Atomic Energy, Beijing, China); Dr JIANG, Shan (China Institute of Atomic Energy, Beijing, China); Dr WU, Shaoyong (China Institute of Atomic Energy, Beijing, China); Dr WANG, Wei (China Institute of Atomic Energy, Beijing, China); Dr GUAN, Xialing (China Institute of Atomic Energy, Beijing, China); Dr BAO, Yiwen (China Institute of Atomic Energy, Beijing, China); Dr HU, Yueming (China Institute of Atomic Energy, Beijing, China)

**Presenter:** Dr SHEN, Hongtao (China Institute of Atomic Energy, Beijing, China)

Contribution ID: 116

Type: **Invited**

## Heavy Ion Irradiation of Nuclear Reactor Fuel

*Friday, June 12, 2009 11:50 AM (30 minutes)*

For developing new generations of nuclear fuels, in-pile experiments are required. However considering their price and the delay (a few years) between their design and their analysis, each technological solution can not be tested in nuclear fuel reactors. For that purpose, alternative strategies have to be defined, with the view to identify the best candidate to test in-pile.

This talk will be focused on the interest of heavy ion irradiation for the selection of low enriched  $^{235}\text{U}$  nuclear fuels.

To fulfill the requirements of international non-proliferation treaty, high density UMo alloys appear as the only appropriated fuel material especially for the most powerful research reactors cores (material testing reactors, neutron sources).

UMo fuel elements usually consist of fissile particles dispersed in an Al matrix. However their in-pile behavior is currently not satisfactory because of the growth of a large interaction layer at UMo/Al interfaces under irradiation.

Heavy ion irradiations with 80MeV  $^{127}\text{I}$  ions have been successfully used to simulate the damages caused by the fission products at the UMo/Al interface. The growth of an interaction layer has been reproduced thanks to this out-of-pile methodology. This allows to select remedies (silicon addition to the aluminum matrix, UMo particle coating,...) for the growth of this interaction layer.

This work has been performed in collaboration with FRMII (Munich, Germany) at the MLL tandem accelerator.

**Primary author:** PALANCHER, H.

**Presenter:** PALANCHER, H.

**Session Classification:** GENERAL TOPICS

**Track Classification:** General Topics

Contribution ID: **117**

Type: **Oral presentation**

## **HIAT09 Outlook**

*Friday, June 12, 2009 12:20 PM (20 minutes)*

**Primary author:** ROY, Amit

**Presenter:** ROY, Amit

**Session Classification:** GENERAL TOPICS

**Track Classification:** General Topics

Contribution ID: **118**

Type: **Poster presentation**

## **DESIGN OF THE MEBT REBUNCHERS FOR THE SPIRAL 2 DRIVER**

**Primary author:** LECHARTIER, Michel (GANIL, France)

**Presenter:** LECHARTIER, Michel (GANIL, France)

**Track Classification:** Linacs