

# 27th International Conference of the International Nuclear Target Development Society (INTDS2014)



## Report of Contributions

Contribution ID: 4

Type: **oral presentation**

## **Target stations for S3**

*Tuesday, 2 September 2014 09:40 (20 minutes)*

**Primary author:** Dr STODEL, Christelle (GANIL)

**Presenter:** Dr STODEL, Christelle (GANIL)

**Session Classification:** RI beams/Medical and industrial applications

**Track Classification:** RI beams

Contribution ID: 5

Type: **oral presentation**

## **Fabrication of Millimeter-sized Glass Shells for High Pressure Gas Targets**

*Thursday, 4 September 2014 15:20 (20 minutes)*

**Primary author:** Dr QI, Xiaobo (Research Center of Laser Fusion, China Academy of Engineering Physics)

**Co-authors:** Dr LI, Bo (Research Center of Laser Fusion, China Academy of Engineering Physics); Dr ZHANG, Zhanwen (Research Center of Laser Fusion, China Academy of Engineering Physics)

**Presenter:** Dr QI, Xiaobo (Research Center of Laser Fusion, China Academy of Engineering Physics)

**Session Classification:** Laser related targets

**Track Classification:** Laser related targets

Contribution ID: 7

Type: **oral presentation**

## **AC–DC Electrodeposition Method for High Laser-X Ray Conversation Efficiency Material**

*Thursday, 4 September 2014 15:40 (20 minutes)*

**Primary author:** Mr DU, Kai (Research Center of Laser Fusion, China Academy of Engineering Physics)

**Co-authors:** Ms LE, Wei (Research Center of Laser Fusion, China Academy of Engineering Physics); Mr ZHANG, Yunwang (Research Center of Laser Fusion, China Academy of Engineering Physics); Ms WU, Zhao (Research Center of Laser Fusion, China Academy of Engineering Physics)

**Presenter:** Mr DU, Kai (Research Center of Laser Fusion, China Academy of Engineering Physics)

**Session Classification:** Laser related targets

**Track Classification:** Laser related targets

Contribution ID: 8

Type: **oral presentation**

## **High Precision Assembly and Characterization System for Micro- Targets**

*Thursday, 4 September 2014 16:00 (20 minutes)*

**Primary authors:** Mr WU, Wenrong (Research Center of Laser Fusion, CAEP); Dr ZHANG, juan (no)

**Presenter:** Mr WU, Wenrong (Research Center of Laser Fusion, CAEP)

**Session Classification:** Laser related targets

**Track Classification:** Laser related targets

Contribution ID: 9

Type: **oral presentation**

## **Solid Hydrogen Film Production for Laser Target**

*Thursday, 4 September 2014 16:20 (20 minutes)*

**Primary author:** Mr CHATAIN, Denis (CEA-France)

**Co-author:** Mr GARCIA, Stephane (UJF-France)

**Presenter:** Mr CHATAIN, Denis (CEA-France)

**Session Classification:** Laser related targets

**Track Classification:** Laser related targets

Contribution ID: 10

Type: **oral presentation**

## THE STATUS OF THE TARGET PREPARATION LABORATORY AT IFIN-HH BUCHAREST, ROMANIA

*Monday, 1 September 2014 11:40 (20 minutes)*

**Primary author:** Dr FLOREA, Nicoleta-Mihaela (Horia Hulubei National Institute of Physics and Nuclear Engineering - IFIN HH)

**Co-authors:** Dr MIHAI, Constantin (Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN - HH Bucharest), 30 Reactorului St., Magurele, jud. Ilfov, P.O.B. MG-6, RO-077125, ROMANIA); Mr COSTACHE, Cristian (Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN - HH Bucharest), 30 Reactorului St., Magurele, jud. Ilfov, P.O.B. MG-6, RO-077125, ROMANIA); Dr NITA, Cristina-Roxana (Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN - HH Bucharest), 30 Reactorului St., Magurele, jud. Ilfov, P.O.B. MG-6, RO-077125, ROMANIA); Dr GHITA, Dan Gabriel (Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN - HH Bucharest), 30 Reactorului St., Magurele, jud. Ilfov, P.O.B. MG-6, RO-077125, ROMANIA); Dr MOSU, Daniel-Vasile (Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN - HH Bucharest), 30 Reactorului St., Magurele, jud. Ilfov, P.O.B. MG-6, RO-077125, ROMANIA); Dr BUCURESCU, Dorel (Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN - HH Bucharest), 30 Reactorului St., Magurele, jud. Ilfov, P.O.B. MG-6, RO-077125, ROMANIA); Dr BURDUCEA, Ion (Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN - HH Bucharest), 30 Reactorului St., Magurele, jud. Ilfov, P.O.B. MG-6, RO-077125, ROMANIA); Dr STROE, Lucian (Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN - HH Bucharest), 30 Reactorului St., Magurele, jud. Ilfov, P.O.B. MG-6, RO-077125, ROMANIA); Dr MARGINEAN, Maria-Raluca (Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN - HH Bucharest), 30 Reactorului St., Magurele, jud. Ilfov, P.O.B. MG-6, RO-077125, ROMANIA); Dr MARGINEAN, Marius-Nicolae (Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN - HH Bucharest), 30 Reactorului St., Magurele, jud. Ilfov, P.O.B. MG-6, RO-077125, ROMANIA); Dr STRATICIUC, Mihai (Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN - HH Bucharest), 30 Reactorului St., Magurele, jud. Ilfov, P.O.B. MG-6, RO-077125, ROMANIA); Mr LICA, Razvan (Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN - HH Bucharest), 30 Reactorului St., Magurele, jud. Ilfov, P.O.B. MG-6, RO-077125, ROMANIA); Dr PASCU, Sorin-Gabriel (Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN - HH Bucharest), 30 Reactorului St., Magurele, jud. Ilfov, P.O.B. MG-6, RO-077125, ROMANIA); Dr SAVA, Tiberiu Bogdan (Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN - HH Bucharest), 30 Reactorului St., Magurele, jud. Ilfov, P.O.B. MG-6, RO-077125, ROMANIA)

**Presenter:** Dr FLOREA, Nicoleta-Mihaela (Horia Hulubei National Institute of Physics and Nuclear Engineering - IFIN HH)

**Session Classification:** Classical targets

**Track Classification:** Classical targets

Contribution ID: 11

Type: **oral presentation**

## **characterizatio of natural and enriched oxygen targets in lithium carbonate foils**

*Monday, 1 September 2014 12:00 (20 minutes)*

**Primary authors:** Mrs KHESWA, Ntombizonke (iThemba LABS); Prof. PAPKA, Paul (university of stellenbosch)

**Co-author:** Dr MSIMANGA, Mandla (iThemba LABS)

**Presenter:** Mrs KHESWA, Ntombizonke (iThemba LABS)

**Session Classification:** Classical targets

**Track Classification:** Classical targets



Contribution ID: 12

Type: **oral presentation**

## **The Stripping Foil Test Stand in the Linac4 Transfer Line**

*Monday, 1 September 2014 16:10 (20 minutes)*

**Primary author:** Mr WETERINGS, Wilhelmus (CERN)

**Co-authors:** Mrs BRACCO, Chiara (CERN); Mr VAN TRAPPEN, Pieter (CERN); Mr NOULIBOS, Remy (CERN); Mr SILLANOLI, Yves (CERN)

**Presenter:** Mr WETERINGS, Wilhelmus (CERN)

**Session Classification:** Solid strippers

**Track Classification:** Solid strippers

Contribution ID: 13

Type: **oral presentation**

## **High- Intensity Radioactive Targets as One of the Key Problems in Further Development of the Research Program on Synthesis of New Superheavy Elements**

*Thursday, 4 September 2014 15:40 (20 minutes)*

**Primary author:** Prof. DMITRIEV, Sergey (Flerov Laboratory of Nuclear Reactions, JINR)

**Presenter:** Prof. DMITRIEV, Sergey (Flerov Laboratory of Nuclear Reactions, JINR)

**Session Classification:** Radioactive targets

**Track Classification:** Radioactive targets

Contribution ID: 14

Type: **oral presentation**

## **Production of a thin diamond target by LASER for HESR at FAIR**

*Thursday, 4 September 2014 16:00 (20 minutes)*

**Primary author:** Dr YOUNIS, Hannan (Comsats Institute of information technology Islamabad)

**Presenter:** Dr YOUNIS, Hannan (Comsats Institute of information technology Islamabad)

**Session Classification:** RI beams

**Track Classification:** RI beams

Contribution ID: 15

Type: **oral presentation**

## **50 kW Prototype of the High Power Production Target for the FRIB**

*Thursday, 4 September 2014 16:20 (20 minutes)*

**Primary author:** Dr AVILOV, Mikhail (Facility for Rare Isotope Beams Michigan State University)

**Co-authors:** Dr PELLEMOINE, Frederique (Facility for Rare Isotope Beams Michigan State University); Dr SCHEIN, Mike (Facility for Rare Isotope Beams Michigan State University); Dr GOLKOVSKY, Mikhail (Budker Institute of Nuclear Physics); Dr FERNANDES, Sandrina (Facility for Rare Isotope Beams Michigan State University); Dr FADEEV, Sergey (Budker Institute of Nuclear Physics); Prof. MITTIG, Wolfgang (National Superconducting Cyclotron Laboratory Michigan State University)

**Presenter:** Dr AVILOV, Mikhail (Facility for Rare Isotope Beams Michigan State University)

**Session Classification:** RI beams

**Track Classification:** RI beams

Contribution ID: 16

Type: **oral presentation**

## **CHANDA European program: toward a network of laboratories for preparation and characterization of targets**

*Monday, 1 September 2014 12:20 (20 minutes)*

**Primary author:** Dr BACRI, Charles-Olivier (CNRS/IN2P3/IPNO)

**Presenter:** Dr BACRI, Charles-Olivier (CNRS/IN2P3/IPNO)

**Session Classification:** Classical targets

**Track Classification:** Classical targets

Contribution ID: 17

Type: **oral presentation**

## **Improving material properties and performance of nuclear targets for transmutation-relevant experiments**

*Thursday, 4 September 2014 15:00 (20 minutes)*

**Primary author:** Dr VASCON, Alessio (Japan Atomic Energy Agency (JAEA))

**Presenter:** Dr VASCON, Alessio (Japan Atomic Energy Agency (JAEA))

**Session Classification:** Radioactive targets

**Track Classification:** Radioactive targets

Contribution ID: 18

Type: **oral presentation**

## **Development of a liquid helium-3 target system for experimental studies of antikaon-nucleon interaction at J-PARC**

*Thursday, 4 September 2014 13:00 (20 minutes)*

**Primary author:** Dr SATO, Masaharu (RIKEN)

**Co-authors:** Prof. IWASAKI, Masahiko (RIKEN, Tokyo Institute of Technology); Dr IIO, Masami (KEK); Prof. HAYANO, Ryugo (The University of Tokyo); Dr ISHIMOTO, Shigeru (KEK); Dr SUZUKI, Shoji (KEK); Mr ENOMOTO, Shun (KEK); Dr HASHIMOTO, Tadashi (RIKEN)

**Presenter:** Dr SATO, Masaharu (RIKEN)

**Session Classification:** Liquid and gas

**Track Classification:** Liquid and gas

Contribution ID: 19

Type: **oral presentation**

## **Stripping of Bi and U beams in He, N<sub>2</sub>, Ar and Xe media in a modified 1.4 MeV/u gas stripper setup using a pulsed gas regime**

*Tuesday, 2 September 2014 10:40 (20 minutes)*

**Primary author:** Mr SCHARRER, Paul (Helmholtz-Institut Mainz)

**Co-authors:** YAKUSHEV, Alexander (GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany); DÜLLMANN, Chrsitoph E. (Helmholtz Institute Mainz, Germany; GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany; Johannes Gutenberg-Universität Mainz, Mainz, Germany); JÄGER, Egon (GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany); KHUYAG-BAATAR, Jadambaa (Helmholtz Institute Mainz, Germany); KRIER, Jörg (GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany); HORN, Klaus-Peter (GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany); GROENING, Lars (GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany); BEVCIC, Mario (GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany); SHEVELKO, Viacheslav Petrovich (P.N. Lebedev Physical Institute, Moscow, Russia); BARTH, Winfried (Helmholtz Institute Mainz, Germany; GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany)

**Presenter:** Mr SCHARRER, Paul (Helmholtz-Institut Mainz)

**Session Classification:** Gas stripper

**Track Classification:** Gas strippers



Contribution ID: 20

Type: **oral presentation**

## **Brazed Molybdenum Targets for Cyclotron Production of Technetium-99m**

*Thursday, 4 September 2014 13:00 (20 minutes)*

**Primary author:** Dr ZEISLER, Stefan (TRIUMF)

**Presenter:** Dr ZEISLER, Stefan (TRIUMF)

**Session Classification:** Medical and industrial applications

**Track Classification:** Medical and industrial application

Contribution ID: 21

Type: **oral presentation**

## **Measurement of continuous degradation of a stripper foil during six months operation with 300 kW beam power in the 3-GeV RCS of J-PARC**

*Wednesday, 3 September 2014 10:20 (20 minutes)*

**Primary author:** Dr SAHA, Pranab (J-PARC)

**Co-authors:** Dr HOTCHI, Hideaki (J-PARC); Dr HARADA, Hiroyuki (J-PARC); Dr OKABE, Kota (J-PARC); Dr YOSHIMOTO, Masahiro (J-PARC); Dr KINSHO, Michikazu (J-PARC); Dr YAMAZAKI, Yoshio (J-PARC); Dr IRIE, Yoshiro (KEK)

**Presenter:** Dr SAHA, Pranab (J-PARC)

**Session Classification:** Solid strippers

**Track Classification:** Solid strippers

Contribution ID: 22

Type: **oral presentation**

## **Development of RI production target for ERIS at RIKEN RI Beam factory**

*Monday, 1 September 2014 10:40 (20 minutes)*

**Primary author:** Dr OHNISHI, Tetsuya (RIKEN)

**Co-authors:** Dr WAKASUGI, Masanori (RIKEN Nishina Center); Dr ICHIKAWA, Shin-ichi (Riken)

**Presenter:** Dr OHNISHI, Tetsuya (RIKEN)

**Session Classification:** Targets and strippers for RIBF

**Track Classification:** Targets and strippers for RIBF

Contribution ID: 23

Type: **oral presentation**

## **Optical property of Lithium vapor evaporated in vacuum or cover-gas area**

*Thursday, 4 September 2014 10:40 (20 minutes)*

**Primary author:** Dr YOSHIHASHI, Sachiko (Osaka University)

**Presenter:** Dr YOSHIHASHI, Sachiko (Osaka University)

**Session Classification:** Target characterization

**Track Classification:** Target characterization

Contribution ID: 24

Type: **oral presentation**

## **Liquid Li based neutron source for BNCT and science application**

*Tuesday, 2 September 2014 10:00 (20 minutes)*

**Primary author:** Prof. HORIIKE, Hiroshi (Osaka University)

**Presenter:** Prof. HORIIKE, Hiroshi (Osaka University)

**Session Classification:** RI beams/Medical and industrial applications

**Track Classification:** RI beams

Contribution ID: 27

Type: **oral presentation**

## **Present status and future project of charge strippers at RI beam factory**

*Monday, 1 September 2014 10:00 (20 minutes)*

**Primary author:** Dr OKUNO, Hiroki (RIKEN, Nishina Center)

**Presenter:** Dr OKUNO, Hiroki (RIKEN, Nishina Center)

**Session Classification:** Targets and strippers for RIBF

**Track Classification:** Targets and strippers for RIBF

Contribution ID: 28

Type: **oral presentation**

## **Pure hydrogen targets developments at CEA/IRFU**

*Thursday, 4 September 2014 13:20 (20 minutes)*

**Primary author:** Mr GHELLER, Jean marc (CEA Saclay)

**Co-authors:** Dr GILLIBERT, Alain (CEA Saclay); Dr OBERTELLI, Alexandre (CEA Saclay); Mr AUTHELET, Gilles (CEA Saclay)

**Presenter:** Mr GHELLER, Jean marc (CEA Saclay)

**Session Classification:** Liquid and gas

**Track Classification:** Liquid and gas

Contribution ID: 29

Type: **oral presentation**

## **Californium Electrodepositions at Oak Ridge National Laboratory**

*Thursday, 4 September 2014 15:20 (20 minutes)*

**Primary author:** Dr BOLL, Rose (Oak Ridge National Laboratory)

**Presenter:** Dr BOLL, Rose (Oak Ridge National Laboratory)

**Session Classification:** Radioactive targets

**Track Classification:** Radioactive targets



Contribution ID: 30

Type: **oral presentation**

## **High-pressure Solid Hydrogen Target for Muon Catalyzed Fusion**

*Thursday, 4 September 2014 13:40 (20 minutes)*

**Primary author:** Dr MATSUZAKI, Teiichiro (RIKEN)

**Co-authors:** Dr ISHIDA, Katsuhiko (RIKEN); Dr IWASAKI, Masahiko (RIKEN)

**Presenter:** Dr MATSUZAKI, Teiichiro (RIKEN)

**Session Classification:** Liquid and gas

**Track Classification:** Liquid and gas

Contribution ID: 31

Type: **oral presentation**

## **Development of Carbon foil at RIKEN**

*Wednesday, 3 September 2014 11:20 (20 minutes)*

**Primary author:** Mr HASEBE, Hiroo (RIKEN)

**Co-authors:** Dr OKUNO, Hiroki (RIKEN Nishina center for accelerator-based science); Dr KUBOKI, Hironori (RNC, Accelerator Group, Accelerator R&D team); IMAO, Hiroshi (RIKEN)

**Presenter:** Mr HASEBE, Hiroo (RIKEN)

**Session Classification:** Solid strippers

**Track Classification:** Solid strippers

Contribution ID: 32

Type: **oral presentation**

## **Development of rotating beryllium disk stripper**

*Monday, 1 September 2014 15:50 (20 minutes)*

**Primary author:** Mr HASEBE, Hiroo (RIKEN)

**Co-authors:** Dr OKUNO, Hiroki (RIKEN Nishina center for accelerator-based science); Dr KUBOKI, Hironori (RNC, Accelerator Group, Accelerator R&D team); IMAO, Hiroshi (RIKEN)

**Presenter:** Mr HASEBE, Hiroo (RIKEN)

**Session Classification:** Solid strippers

**Track Classification:** Solid strippers

Contribution ID: 34

Type: **oral presentation**

## **Determination of the H content of a tristearin layer prepared by physical vapour deposition**

*Thursday, 4 September 2014 11:00 (20 minutes)*

**Primary author:** Mr VANLEEuw, David (EC-JRC-IRMM)

**Co-authors:** Mr PLOMPEN, Arjan (EC-JRC-IRMM); Mrs SIBBENS, Goedele (EC-JRC-IRMM)

**Presenter:** Mr VANLEEuw, David (EC-JRC-IRMM)

**Session Classification:** Target characterization

**Track Classification:** Target characterization

Contribution ID: 35

Type: **oral presentation**

## **Current Status of Isotope Separation On-Line Target in RISP**

**Primary author:** Mr HWANG, Wonjoo (RISP/IBS)

**Co-authors:** Dr KANG, Byounghwi (RISP/IBS); Mr JANG, Dohyun (Hanyang Univ.); Dr KIM, Gidong (RISP/IBS); Dr WOO, Hyungjoo (RISP/IBS); Mr JEONG, Jaewon (RISP/IBS); Dr TSHOO, Kyoungho (RISP/IBS); Dr KIM, Yongkyun (RISP/IBS)

**Presenter:** Mr HWANG, Wonjoo (RISP/IBS)

**Track Classification:** RI beams

Contribution ID: 36

Type: **oral presentation**

## **Fabrication of Natural and Isotopic Carbon foils by Thermal Cracking Method and its some Issues**

*Monday, 1 September 2014 14:50 (20 minutes)*

**Primary author:** Dr SUGAI, Isao (KEK)

**Presenter:** Dr SUGAI, Isao (KEK)

**Session Classification:** Classical targets

**Track Classification:** Classical targets

Contribution ID: 37

Type: **oral presentation**

## **Maintenance of radio-activated stripper foils in the 3GeV RCS of J-PARC**

*Wednesday, 3 September 2014 11:00 (20 minutes)*

**Primary author:** Dr YOSHIMOTO, Masahiro (Japan Atomic Energy Agency / J-PARC center)

**Co-authors:** Dr KINSHO, Michikazu (Japan Atomic Energy Agency / J-PARC center); Dr SAHA, Pranab (J-PARC); Dr YAMAZAKI, Yoshio (Japan Atomic Energy Agency / J-PARC center); Dr IRIE, Yoshiro (KEK); Dr SUGAI, isao (KEK)

**Presenter:** Dr YOSHIMOTO, Masahiro (Japan Atomic Energy Agency / J-PARC center)

**Session Classification:** Solid strippers

**Track Classification:** Solid strippers

Contribution ID: 38

Type: **oral presentation**

## **Preparation and sublimation of uranium tetrafluoride for the production of thin $^{235}\text{UF}_4$ targets**

*Monday, 1 September 2014 14:10 (20 minutes)*

**Primary author:** Mrs SIBBENS, Goedele (JRC-IRMM)

**Co-authors:** Mr MOENS, André (JRC-IRMM); Mr EYKENS, Roger (retired)

**Presenter:** Mrs SIBBENS, Goedele (JRC-IRMM)

**Session Classification:** Classical targets

**Track Classification:** Classical targets



Contribution ID: 39

Type: **oral presentation**

## **The Meson target stations and the high power spallation neutron source SINQ at PSI**

*Thursday, 4 September 2014 09:00 (20 minutes)*

**Primary author:** Dr KISELEV, Daniela (Paul Scherrer Institut)

**Presenter:** Dr KISELEV, Daniela (Paul Scherrer Institut)

**Session Classification:** Production targets

**Track Classification:** Production targets

Contribution ID: 40

Type: **oral presentation**

## **In Situ Characterisation of Thin Free-Standing Targets: Alpha Particle Energy Loss Measurement & Point Confocal Microscopy**

*Thursday, 4 September 2014 11:20 (20 minutes)*

**Primary author:** Dr SCHAUMANN, Gabriel (Technische Universität Darmstadt)

**Co-authors:** Ms TEBARTZ, Alexandra (Technische Universität Darmstadt); Mr BEDACHT, Stefan (Technische Universität Darmstadt)

**Presenter:** Dr SCHAUMANN, Gabriel (Technische Universität Darmstadt)

**Session Classification:** Target characterization

**Track Classification:** Target characterization

Contribution ID: 41

Type: **oral presentation**

## **Proton Beam-on-Liquid Lithium Stripper Film Experiment**

*Tuesday, 2 September 2014 11:40 (20 minutes)*

**Primary author:** MOMOZAKI, Yoichi (Argonne National Laboratory)

**Co-authors:** Dr REED, Claude (Argonne National Laboratory); Dr MARTI, Felix (Michigan State University); Dr NOLEN, Jerry (Argonne National Laboratory/Michigan State University)

**Presenter:** MOMOZAKI, Yoichi (Argonne National Laboratory)

**Session Classification:** Liquid stripper

**Track Classification:** Liquid strippers

Contribution ID: 42

Type: **oral presentation**

## **Development of Muon Rotating Target at J-PARC/MUSE**

*Thursday, 4 September 2014 11:20 (20 minutes)*

**Primary author:** Mr MAKIMURA, Shunsuke (J-PARC/KEK)

**Presenter:** Mr MAKIMURA, Shunsuke (J-PARC/KEK)

**Session Classification:** Production targets

**Track Classification:** Production targets

Contribution ID: 43

Type: **oral presentation**

## **Solid hydrogen target for missing mass spectroscopy in inverse kinematics**

*Thursday, 4 September 2014 14:00 (20 minutes)*

**Primary author:** Dr MATSUDA, Yohei (Konan University)

**Presenter:** Dr MATSUDA, Yohei (Konan University)

**Session Classification:** Liquid and gas

**Track Classification:** Liquid and gas

Contribution ID: 44

Type: **oral presentation**

## **Neutron Target Research and Development for BNCT –Direct observation of proton induced blistering using light-polarization and -reflectivity changes–**

*Thursday, 4 September 2014 13:20 (20 minutes)*

**Primary author:** KURIHARA, Toshikazu (High Energy Accelerator Research Organization (KEK))

**Co-authors:** MATSUMOTO, Hiroshi (High Energy Accelerator Research Organization (KEK)); KOBAYASHI, Hitoshi (High Energy Accelerator Research Organization (KEK)); YOSHIOKA, Masakazu (High Energy Accelerator Research Organization (KEK))

**Presenter:** KURIHARA, Toshikazu (High Energy Accelerator Research Organization (KEK))

**Session Classification:** Medical and industrial applications

**Track Classification:** Medical and industrial application

Contribution ID: 45

Type: **oral presentation**

## **Nickel-Backed Bi Targets for the Production of $^{211}\text{At}$**

*Thursday, 4 September 2014 13:40 (20 minutes)*

**Primary author:** Mr GREENE, John (Argonne National Laboratory)

**Co-authors:** Dr NOLEN, Jerry (Argonne National Laboratory); Mr BAKER, Samuel (Argonne National Laboratory)

**Presenter:** Mr GREENE, John (Argonne National Laboratory)

**Session Classification:** Medical and industrial applications

**Track Classification:** Medical and industrial application

Contribution ID: 46

Type: **oral presentation**

## **CARIBU Cover Foil –SRIM Studies**

*Monday, 1 September 2014 15:30 (20 minutes)*

**Primary author:** Mr GREENE, John (Argonne National Laboratory)

**Co-authors:** Prof. SAVARD, Guy (Argonne National Laboratory / University of Chicago); Mr BAKER, Samuel (Argonne National Laboratory)

**Presenter:** Mr GREENE, John (Argonne National Laboratory)

**Session Classification:** Solid strippers

**Track Classification:** Solid strippers



Contribution ID: 47

Type: **oral presentation**

## **Isotopic Tungsten Targets**

*Friday, 5 September 2014 09:00 (20 minutes)*

**Primary author:** Mr GREENE, John (Argonne National Laboratory)

**Co-author:** Dr KOHLEY, Zachary (Michigan State University)

**Presenter:** Mr GREENE, John (Argonne National Laboratory)

**Session Classification:** Classical targets

**Track Classification:** Classical targets

Contribution ID: 49

Type: **oral presentation**

## **The graphite target for J-PARC neutrino beam-line**

*Thursday, 4 September 2014 09:20 (20 minutes)*

**Primary author:** Prof. NAKADAIRA, Takeshi (KEK)

**Presenter:** Prof. NAKADAIRA, Takeshi (KEK)

**Session Classification:** Production targets

**Track Classification:** Production targets

Contribution ID: 50

Type: **oral presentation**

## **Intense Heavy Ion Beam Induced Effects in Carbon-Based Stripper Foils**

*Wednesday, 3 September 2014 11:40 (20 minutes)*

**Primary author:** KUPKA, Katharina (GSI Helmholtzzentrum für Schwerionenforschung)

**Co-authors:** DUNLAP, Anthony (Technische Universität Darmstadt); Dr LOMMEL, Bettina (GSI Targetlaboratory); HUBERT, Christian (GSI Helmholtzzentrum für Schwerionenforschung); Prof. TRAUTMANN, Christina (GSI Helmholtzzentrum für Schwerionenforschung); Dr TOMUT, Marilena (GSI Helmholtzzentrum für Schwerionenforschung); SIMON, Pascal (Technische Universität Darmstadt)

**Presenter:** KUPKA, Katharina (GSI Helmholtzzentrum für Schwerionenforschung)

**Session Classification:** Solid strippers

**Track Classification:** Solid strippers

Contribution ID: 51

Type: **oral presentation**

## **Fabrication of backed $^{94}\text{Zr}$ target for RDM lifetime measurement**

*Friday, 5 September 2014 09:20 (20 minutes)*

**Primary author:** Mr GUPTA, Chandan Kumar (University of Delhi)

**Co-authors:** Mr ROHILLA, AMAN (UNIVERSITY OF DELHI); Mr STHUTHIKKATT REGHU, Abhilash (Inter-University Accelerator Centre); Dr KABIRAJ, D. (INTER UNIVERSITY ACCELERATOR CENTRE); Dr MEHTA, D. (PANJAB UNIVERSITY); Dr SINGH, R. P. (Inter University Accelerator Centre); Dr CHAMOLI, SANJAY KUMAR (UNIVERSITY OF DELHI)

**Presenter:** Mr ROHILLA, AMAN (UNIVERSITY OF DELHI)

**Session Classification:** Classical targets

**Track Classification:** Classical targets

Contribution ID: 52

Type: **oral presentation**

## **Recent target development activities at Inter-University Accelerator Centre**

*Friday, 5 September 2014 09:40 (20 minutes)*

**Primary author:** Mr S. R., Abhilash (IUAC, New Delhu (India))

**Presenter:** Mr S. R., Abhilash (IUAC, New Delhu (India))

**Session Classification:** Classical targets

**Track Classification:** Classical targets

Contribution ID: 53

Type: **oral presentation**

## **Indirectly Water-Cooled Production Target at J-PARC Hadron Facility**

*Thursday, 4 September 2014 11:00 (20 minutes)*

**Primary author:** Dr TAKAHASHI, Hitoshi (KEK)

**Co-authors:** Dr TOYODA, Akihisa (KEK); Mrs HIROSE, Erina (KEK); Prof. WATANABE, Hiroaki (KEK); Prof. NOUMI, Hiroyuki (Osaka University); Prof. TANAKA, Kazuhiro (KEK); Dr AOKI, Kazuya (KEK); Mr AGARI, Keizo (KEK); Prof. IEIRI, Masaharu (KEK); Dr HAGIWARA, Masayuki (KEK); Prof. NARUKI, Megumi (Kyoto University); Mr MINAKAWA, Michifumi (KEK); Ms IWASAKI, Ruri (KEK); Dr MUTO, Ryotaro (KEK); Prof. SAWADA, Shin'ya (KEK); Mr KATOH, Yohji (KEK); Mr SUZUKI, Yoshihiro (KEK); Mr SHIRAKABE, Yoshihisa (KEK); Prof. SATO, Yoshinori (KEK); Mr YAMANOI, Yutaka (KEK)

**Presenter:** Dr TAKAHASHI, Hitoshi (KEK)

**Session Classification:** Production targets

**Track Classification:** Production targets

Contribution ID: 54

Type: **oral presentation**

## **Extremely efficient muon production with a novel pion capture system**

*Thursday, 4 September 2014 11:40 (20 minutes)*

**Primary author:** Dr SATO, Akira (Osaka University)

**Presenter:** Dr SATO, Akira (Osaka University)

**Session Classification:** Production targets

**Track Classification:** Production targets

Contribution ID: 55

Type: **oral presentation**

## **A windowless gas target for low-energy $^{12}\text{C}$ ( $^4\text{He}$ , $^{16}\text{O}$ ) gamma experiment - Improvement to reduce $^{16}\text{O}$ backgrounds -**

*Thursday, 4 September 2014 14:20 (20 minutes)*

**Primary author:** Prof. SAGARA, Kenshi (Department of Physics, Kyushu University)

**Presenter:** Prof. SAGARA, Kenshi (Department of Physics, Kyushu University)

**Session Classification:** Liquid and gas

**Track Classification:** Liquid and gas



Contribution ID: 56

Type: **oral presentation**

## **Improving the lifetime of carbon micro-ribbons in the RHIC CNI Polarimeter**

*Friday, 5 September 2014 10:00 (20 minutes)*

**Primary author:** Mr STESKI, Dannie (Brookhaven National Laboratory)

**Presenter:** Mr STESKI, Dannie (Brookhaven National Laboratory)

**Session Classification:** Classical targets

**Track Classification:** Classical targets

Contribution ID: 57

Type: **oral presentation**

## **DEVELOPMENT OF NEUTRON GENERATING TARGET FOR COMPACT NEUTRON SOURCES USING LOW ENERGY PROTON BEAMS**

*Thursday, 4 September 2014 10:00 (20 minutes)*

**Primary author:** Dr YAMAGATA, Yutaka (RIKEN)

**Co-authors:** Dr TAKETANI, Atsushi (RIKEN); Dr JU, Jungmyoung (RIKEN); Dr HIROTA, Katsuya (RIKEN); Dr WANG, Sheng (RIKEN); Dr MORITA, Shin-ya (RIKEN); Dr OTAKE, Yoshie (RIKEN)

**Presenter:** Dr YAMAGATA, Yutaka (RIKEN)

**Session Classification:** Production targets

**Track Classification:** Production targets

Contribution ID: 58

Type: **oral presentation**

## **Fabrication of Calcium-Gold and Calcium-Lead Targets for Ion Beam Experiments at TRIUMF ISAC-II**

*Monday, 1 September 2014 14:30 (20 minutes)*

**Primary author:** Mr JAGGI, Vinder (Micromatter (Triumf))

**Presenter:** Mr JAGGI, Vinder (Micromatter (Triumf))

**Session Classification:** Classical targets

**Track Classification:** Classical targets

Contribution ID: 59

Type: **oral presentation**

## **Targets of hard materials by mechanical reshaping**

*Thursday, 4 September 2014 14:00 (20 minutes)*

**Primary author:** Dr STOLARZ, Anna (Heavy Ion Laboratory, University of Warsaw, Poland)

**Co-authors:** Mrs KOWALSKA, Joanna (HIL, UW, Warsaw, Poland); Mrs SAMORAJCZYK, Justyna (University of Łódź, Poland)

**Presenter:** Dr STOLARZ, Anna (Heavy Ion Laboratory, University of Warsaw, Poland)

**Session Classification:** Medical and industrial applications

**Track Classification:** Medical and industrial application

Contribution ID: 63

Type: **oral presentation**

## **CNS Active Target for Missing Mass Spectroscopy with Intense Beam**

*Thursday, 4 September 2014 14:40 (20 minutes)*

**Primary author:** Dr OTA, Shinsuke (Center for Nuclear Study, University of Tokyo)

**Presenter:** Dr OTA, Shinsuke (Center for Nuclear Study, University of Tokyo)

**Session Classification:** Liquid and gas

**Track Classification:** Liquid and gas

Contribution ID: 64

Type: **oral presentation**

## **Development of Plasma Window at RIKEN**

*Tuesday, 2 September 2014 11:00 (20 minutes)*

**Primary author:** Dr KUBOKI, Hironori (RNC, Accelerator Group, Accelerator R&D team)

**Presenter:** Dr KUBOKI, Hironori (RNC, Accelerator Group, Accelerator R&D team)

**Session Classification:** Gas stripper

**Track Classification:** Gas strippers

Contribution ID: 65

Type: **oral presentation**

## Coating of Diamonds for Detector Application

*Thursday, 4 September 2014 11:40 (20 minutes)*

**Primary author:** Dr KINDLER, Birgit (GSI)

**Co-authors:** HÜBNER, Annett (GSI); Dr LOMMEL, Bettina (GSI); STEINER, Jutta (GSI); YAKU-SHEVA, Vera (GSI); HARTMANN, Willi (GSI)

**Presenter:** Dr KINDLER, Birgit (GSI)

**Session Classification:** Target characterization

**Track Classification:** Target characterization

Contribution ID: 66

Type: **oral presentation**

## **Deposition of Metals and Metal Oxides on Plastic Foils**

*Monday, 1 September 2014 11:20 (20 minutes)*

**Primary author:** Dr LOMMEL, Bettina (GSI)

**Co-authors:** Mrs HUEBNER, Annett (GSI); Dr KINDLER, Birgit (GSI); Mrs STEINER, Jutta (GSI); Mrs YAKUSHEVA, Vera (GSI); Mr HARTMANN, Willi (GSI)

**Presenter:** Dr LOMMEL, Bettina (GSI)

**Session Classification:** Classical targets

**Track Classification:** Classical targets



Contribution ID: 67

Type: **oral presentation**

## **Production of radioisotopes for application studies at RIKEN**

*Tuesday, 2 September 2014 09:00 (20 minutes)*

**Primary author:** Dr HABA, Hiromitsu (Nishina Center for Accelerator-Based Science, RIKEN)

**Presenter:** Dr HABA, Hiromitsu (Nishina Center for Accelerator-Based Science, RIKEN)

**Session Classification:** Targets and strippers for RIBF

**Track Classification:** Targets and strippers for RIBF

Contribution ID: 68

Type: **oral presentation**

## **First developments on the CACAO laboratory**

*Thursday, 4 September 2014 14:40 (20 minutes)*

**Primary author:** Mrs PETITBON-THÉVENET, Véronique (CNRS)

**Co-authors:** Dr BACRI, Charles-Olivier (CNRS/IN2P3/IPNO); Mr LEFORT, Hervé (CNRS-IPNO); Mr MOTTIER, Julien (CNRS-IPNO)

**Presenter:** Mrs PETITBON-THÉVENET, Véronique (CNRS)

**Session Classification:** Radioactive targets

**Track Classification:** Radioactive targets

Contribution ID: 69

Type: **oral presentation**

## **Design and Automation of a new versatile UHV-Multilayer evaporation plant for very high vacuum requirements**

*Monday, 1 September 2014 13:40 (30 minutes)*

**Primary author:** Mr SEILER, Dominik (TUM)

**Co-author:** Dr MAIER-KOMOR, Peter (TUM)

**Presenter:** Mr SEILER, Dominik (TUM)

**Session Classification:** Classical targets

**Track Classification:** Classical targets

Contribution ID: 70

Type: **oral presentation**

## **Gaseous strippers at RI beam factory; R&D and operation**

*Tuesday, 2 September 2014 11:20 (20 minutes)*

**Primary author:** IMAO, Hiroshi (RIKEN)

**Presenter:** IMAO, Hiroshi (RIKEN)

**Session Classification:** Gas stripper

**Track Classification:** Gas strippers

Contribution ID: 71

Type: **oral presentation**

## **Present status of the high-power production target system for BigRIPS separator**

*Monday, 1 September 2014 10:20 (20 minutes)*

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

**Presenter:** Dr YOSHIDA, Koichi (RIKEN Nishina Center)

**Session Classification:** Targets and strippers for RIBF

**Track Classification:** Targets and strippers for RIBF

Contribution ID: 72

Type: **oral presentation**

## **Analyses and the effect of impurities contained in charge stripper foils for the 3-GeV RCS of J-PARC**

*Wednesday, 3 September 2014 10:40 (20 minutes)*

**Primary author:** Dr YAMAZAKI, Yoshio (J-PARC, JAEA)

**Co-authors:** Dr YOSHIMOTO, Masahiro (Japan Atomic Energy Agency / J-PARC center); Dr KINSHO, Michikazu (J-PARC, JAEA); Dr SAHA, Pranab (J-PARC); Dr YAMAMOTO, Shunya (JAEA); Dr TAGUCHI, Tomitsugu (JAEA); Dr SUGAI, isao (KEK)

**Presenter:** Dr YAMAZAKI, Yoshio (J-PARC, JAEA)

**Session Classification:** Solid strippers

**Track Classification:** Solid strippers

Contribution ID: 73

Type: **oral presentation**

## **Present status of superheavy element production target for gas-filled recoil separators GARIS and GARIS-II**

*Tuesday, 2 September 2014 09:20 (20 minutes)*

**Primary author:** Dr KAJI, Daiya (RIKEN Nishina center)

**Presenter:** Dr KAJI, Daiya (RIKEN Nishina center)

**Session Classification:** Targets and strippers for RIBF

**Track Classification:** Targets and strippers for RIBF

Contribution ID: 74

Type: **oral presentation**

## **An improvement of ACCSIM code and the stripping injection simulation**

*Monday, 1 September 2014 16:30 (20 minutes)*

**Primary author:** Mr CHAI, Weiping (Institute of Modern Physics, Chinese Academy of Science)

**Presenter:** Mr CHAI, Weiping (Institute of Modern Physics, Chinese Academy of Science)

**Session Classification:** Solid strippers

**Track Classification:** Solid strippers



Contribution ID: 75

Type: **oral presentation**

## **A high-power Liquid-Lithium Target (LiLiT) for neutron production**

*Thursday, 4 September 2014 09:40 (20 minutes)*

**Primary author:** Prof. PAUL, Michael (Hebrew University)

**Presenter:** Prof. PAUL, Michael (Hebrew University)

**Session Classification:** Production targets

**Track Classification:** Production targets

Contribution ID: 76

Type: **oral presentation**

## **Femtosecond Laser Ablation Characteristics and Matching Technology of Low Density 4-Methyl-1Pentene Foam**

**Primary author:** Mr HUANG, Yanhua (Research Center of Laser Fusion, CAEP)

**Presenter:** Mr HUANG, Yanhua (Research Center of Laser Fusion, CAEP)

**Track Classification:** Laser related targets

Contribution ID: 77

Type: **oral presentation**

## **High power spallation target using a heavy liquid metal free surface flow**

*Thursday, 4 September 2014 10:40 (20 minutes)*

**Primary author:** Dr LITFIN, Karsten (KIT)

**Presenter:** Dr LITFIN, Karsten (KIT)

**Session Classification:** Production targets

**Track Classification:** Production targets

Contribution ID: 78

Type: **oral presentation**

## **Nanocarbon Materials: Science and Applications**

*Wednesday, 3 September 2014 09:00 (1 hour)*

**Primary author:** Prof. IJJIMA, Sumio (Graduate School of Science and Technology, Meijo University, National Institute of Advanced Industrial Science and Technology /Nanotube Research Center, and NEC)

**Presenter:** Prof. IJJIMA, Sumio (Graduate School of Science and Technology, Meijo University, National Institute of Advanced Industrial Science and Technology /Nanotube Research Center, and NEC)

**Session Classification:** Invited talk