

# LIST OF ORAL AND INVITED CONTRIBUTIONS

## SESSION GENERAL TOPICS

### MO 1 NUCLEAR PHYSICS PERSPECTIVES WITH NEXT-GENERATION RNB FACILITIES

G. Bollen  
*Michigan State University, USA*

## SESSION RADIOACTIVE ION BEAM FACILITIES

### MO 2 COMPLEMENTARITY OF NEW RNB FACILITIES AND THEIR TECHNOLOGICAL CHALLENGES

J. Nolen  
*Physics Division, Argonne National Laboratory, USA*

### MO 3 THE RI BEAMS FROM THE TOKAI RADIOACTIVE ION ACCELERATOR COMPLEX (TRIAC)

A. Osa<sup>1</sup>, S. Abe<sup>1</sup>, T. Asozu<sup>1</sup>, S. Hanashima<sup>1</sup>, T. Ishii<sup>1</sup>, N. Ishizaki<sup>1</sup>, H. Kabumoto<sup>1</sup>, K. Kutsukake<sup>1</sup>, M. Matsuda<sup>1</sup>, M. Nakamura<sup>1</sup>, T. Nakanoya<sup>1</sup>, Y. Otokawa<sup>1</sup>, H. Tayama<sup>1</sup>, Y. Tsukihashi<sup>1</sup>, S. Arai<sup>2</sup>, H. Ishiyama<sup>2</sup>, N. Imai<sup>2</sup>, M. Okada<sup>2</sup>, M. Oyaizu<sup>2</sup>, S.C. Jeong<sup>2</sup>, K. Niki<sup>2</sup>, Y. Hirayama<sup>2</sup>, Y. Fuchi<sup>2</sup>, H. Miyatake<sup>2</sup> and Y. Watanabe<sup>2</sup>  
<sup>1</sup>Japan Atomic Energy Agency, Japan, <sup>2</sup>High Energy Accelerator Research Organization, Japan

### MO 4 REA3, THE NEW REACCELERATED BEAM FACILITY AT MSU/NSCL

M. Doleans, W. Hartung, O. Kester, F. Marti, X. Wu, R. York and Q. Zhao  
*National Superconducting Cyclotron Laboratory, MSU, USA*

### MO 5 FIRST BEAM TESTS OF THE <sup>252</sup>Cf CARIBU PROJECT

R. Pardo, S. I. Baker, C.N. Davids, D. R. Phillips, R.C. Vondrasek and G. P. Zinkann  
*Argonne National Laboratory, USA*

### MO 6 OPERATIONAL EXPERIENCE WITH THE EXCYT FACILITY

D. Rifuggiato, L. Calabretta, L. Celona, F. Chines, L. Cosentino, G. Cuttone, P. Finocchiaro, A. Pappalardo, M. Re and A. Rovelli  
*INFN/LNS, Italy*

### MO 7 THE SPES PROJECT: AN ISOL FACILITY FOR EXOTIC BEAMS

G. Prete<sup>1</sup>, A. Andrighetto<sup>1</sup>, G. Bassato<sup>1</sup>, P. Benetti<sup>2</sup>, L. Bassetto<sup>1</sup>, G. Bisoffi<sup>1</sup>, L. Calabretta<sup>4</sup>, M. Cinausero<sup>1</sup>, A. Covello<sup>3</sup>, A. Dainelli<sup>1</sup>, J. Esposito<sup>1,5</sup>, E. Fagotti<sup>1,5</sup>, P. Favaron<sup>1</sup>, A. Galatà<sup>1</sup>, F. Gramegna<sup>1</sup>, A. Lombardi<sup>1</sup>, M. Manzolaro<sup>1</sup>, P.F. Mastinu<sup>1</sup>, A. Pisent<sup>1</sup>, M. Poggi<sup>1</sup>, P. Posocco<sup>1,5</sup>, L. Sarchiapone<sup>1</sup>, D. Zafiroopoulos<sup>1</sup> And Spes Collaboration  
<sup>1</sup> INFN/LNL, Italy, <sup>2</sup> INFN/Pavia Section and University of Pavia, Italy, <sup>3</sup> INFN/Naples Section and Federico I University, Italy, <sup>4</sup> INFN/LNS, Italy, <sup>5</sup> Consorzio RFX, Italy

### MO 8 THE SPES PROJECT: RESEARCH AND DEVELOPMENT FOR THE MULTI-FOIL DIRECT TARGET

M. Manzolaro<sup>1</sup>, A. Andrighetto<sup>1</sup>, L. Bassetto<sup>1</sup>, G. Meneghetti<sup>2</sup>, S. Carturan<sup>1</sup>, D. Scarpa<sup>1</sup>, P. Colombo<sup>2</sup> and G. Prete<sup>1</sup>  
<sup>1</sup> INFN/LNL, Italy, <sup>2</sup> University of Padua, Italy

### MO 9 RADIOLOGICAL SAFETY ASPECTS OF THE DESIGN OF THE RNB FACILITIES

D. Ene, J. C. David, D. Doré and D. Ridikas  
*CEA, IRFU/SPhN, France*

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K. Yamada, N. Fukunishi, M. Fujimaki, T. Fujinawa, A. Goto, H. Hasebe, Y. Higurashi, E. Ikezawa, O. Kamigaito, M. Kase, M. Komiyama, H. Kuboki, K. Kumagai, T. Maie, M. Nagase, T. Nakagawa, J. Ohnishi, H. Okuno, N. Sakamoto, Y. Satou, K. Suda, M. Wakasugi, H. Watanabe, T. Watanabe, Y. Watanabe, Y. Yano and S. Yokouchi  
*RIKEN Nishina Center, Japan*

**MO 11 INTENSITY-UPGRADE PLANS OF RIKEN RI-BEAM FACTORY**

O. Kamigaito, M. Fujimaki, T. Fujinawa, N. Fukunishi, A. Goto, Y. Higurashi, E. Ikezawa, M. Kase, M. Kidera, M. Komiyama, H. Kuboki, K. Kumagai, T. Maie, M. Nagase, T. Kageyama, T. Nakagawa, J.I. Ohnishi, H. Okuno, N. Sakamoto, Y. Sato, K. Suda, T. Watanabe, Y. Watanabe, K. Yamada, S. Yokouchi and Y. Yano  
*RIKEN Nishina Center, Japan*

**MO 12 THE REFINEMENT OF REX-ISOLDE**

F. Wenander, D. Voulot, A. Gustafsson, J. Van De Walle, R. Scrivens and A. Herlert  
*CERN, Switzerland*

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J.M. Lagniel  
*GANIL, France*

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D. Weisser  
*Department of Nuclear Physics, Research School of Physics and Engineering, Australian National University, Australia*

**TU 2 UPGRADE OF THE BUCHAREST FN TANDEM ACCELERATOR**

S. Dobrescu, D.V. Mosu, D. Moisa, S. Papureanu, T. Sava and Tiberiu  
*National Institute for Physics and Nuclear Engineering (IFIN-HH), Romania*

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P.V. Bhagwat, A.K. Gupta and R.K. Choudhury  
*Nuclear Physics Division, BARC, India*

**TU 4 MAIER-LEIBNITZ-LABORATORIUM - TANDEM OPERATION AND EXPERIMENTS**

L. Beck  
*Maier-Leibnitz-Laboratorium / Beschleunigerlabor, Germany*

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M. Leitner<sup>1</sup>, A. Champagne<sup>2</sup>, M. Famiano<sup>3</sup>, C. Iliadis<sup>2</sup>, D. Leitner<sup>1</sup>, D. Todd<sup>1</sup>, P. Vetter<sup>1</sup> and M. Wiescher<sup>4</sup>

<sup>1</sup> Lawrence Berkeley National Laboratory, USA, <sup>2</sup> University of North Carolina, USA, <sup>3</sup> Western Michigan University, USA, <sup>4</sup> University of Notre Dame, USA

**TU 6 PROGRESS OF AN ACCELERATOR MASS SPECTROMETRY SYSTEM ON THE TSUKUBA 12UD PELLETRON TANDEM ACCELERATOR**

K. Sasa<sup>1</sup>, Y. Nagashima<sup>1</sup>, T. Takahashi<sup>1</sup>, Y. Tosaki<sup>1</sup>, K. Sueki<sup>1</sup>, T. Amano<sup>1</sup>, T. Oki<sup>1</sup>, N. Kinoshita<sup>2</sup>, H. Matsumura<sup>2</sup>, K. Bessho<sup>2</sup> and Y. Matsushi<sup>3</sup>  
<sup>1</sup> University of Tsukuba, Japan <sup>2</sup> KEK, Japan, <sup>3</sup> The University of Tokyo, Japan

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F. Chautard<sup>1</sup> and G. Senecal<sup>2</sup>  
<sup>1</sup> CNRS, France <sup>2</sup> CEA, France

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G. Gulbekian, B. Gikal, I. Kalagin and N. Kazarinov  
*JINR, Russia*

### **TU 9 RCNP CYCLOTRON FACILITY**

K. Hatanaka, M. Fukuda, T. Yorita, T. Saito, H. Tamura, M. Kibayashi, S. Morinobu and K. Nagayama  
*Research Center for Nuclear Physics, Osaka University, Japan*

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N. Sakamoto, O. Kamigaito, K. Suda, H. Okuno, M. Kase, K. Yamada, A. Goto and Y. Yasushige  
*RIKEN Nishina Center, Japan*

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J.M. Schippers<sup>1</sup>, A. Adelman<sup>1</sup>, W. Joho<sup>1</sup>, M. Negrazus<sup>1</sup>, M. Seidel<sup>1</sup> and H. Homeyer<sup>2</sup>  
<sup>1</sup> Paul Scherrer Institute, Switzerland, <sup>2</sup> HMI, Germany

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L. Calabretta, M. Maggiore, D. Campo and L. Piazza  
*INFN/LNS, Italy*

### **TU 13 HIRFL-CSR COMMISSIONING STATUS**

Y. Liu, J. Xia, J. Yang, Y. Yuan, X. Yang, L. Mao and X. Cheng  
*Institute Modern Physics, Chinese Academy of Science, China*

### **TU 14 ACCELERATION, DECELERATION AND BUNCHING OF STORED AND COOLED ION BEAMS AT THE TSR, HEIDELBERG**

M. Grieser, R. Bastert, K. Blaum, R. Epking, K. Horn, R. Von Hahn, O. Koschorreck, R. Repnow, P. Werle and A. Wolf  
*Max Planck Institut für Kernphysik, Germany*

### **TU 15 STATUS OF THE CRYOGENIC STORAGE RING**

R. Von Hahn<sup>1</sup>, K. Blaum<sup>1</sup>, F. Fellenberger<sup>1</sup>, M. Froese<sup>1</sup>, M. Grieser<sup>1</sup>, M. Lange<sup>1</sup>, F. Laux<sup>1</sup>, S. Menk<sup>1</sup>, D. Orlov<sup>1</sup>, R. Repnow<sup>1</sup>, D. Schwalm<sup>1</sup>, T. Sieber<sup>1</sup>, J. Ullrich<sup>1</sup>, A. Wolf<sup>1</sup>, J.R. Crespo Lopez-Urrutia<sup>1</sup>, C.D. Schroeter<sup>1</sup>, M. Rappaport<sup>2</sup>, D. Zajfman<sup>2</sup>, H. Quack<sup>3</sup> and X. Urbain<sup>4</sup>  
<sup>1</sup> Max-Planck-Institut für Kernphysik, Germany, <sup>2</sup> Weizmann Institute of Science, Israel, <sup>3</sup> Technical University Dresden, Germany, <sup>4</sup> Université Catholique de Louvain, Belgium

## SESSION APPLICATIONS AND ANCILLARY SYSTEMS

### WE 1 MEDICAL APPLICATION OF HADRONTHERAPY

E. B. Hug

*Center for Proton Therapy at Paul Scherrer Institute, Switzerland*

### WE 2 REVIEW ON HI ACCELERATORS FOR HADRONTHERAPY

K. Noda

*National Institute of Radiological Science, Japan*

### WE 3 NEW AND IMPROVED AMS FACILITIES

H. A. Synal

*Laboratory of Ion Beam Physics, ETH Zurich, Switzerland*

### WE 4 THE RADIATION ASSURANCE TEST FACILITY AT INFN-LNS CATANIA

A.B. Alpat<sup>1</sup>, M. Menichelli<sup>1</sup>, R. Harboe-Sorensen<sup>2</sup>, P. Cirrone<sup>3</sup>, F. Ferrera<sup>3</sup>, P. Figuera<sup>3</sup>, P. Finocchiaro<sup>3</sup>, M. Lattuada<sup>3</sup>, D. Rifuggiato<sup>3</sup>, F. Bizzarri<sup>4</sup>, D. Caraffini<sup>4</sup>, F. Renzi<sup>4</sup>, H. Denizli<sup>5</sup> and O. Amutkan<sup>6</sup>

<sup>1</sup> INFN/Perugia Section, Italy, <sup>2</sup> ESTEC/ESA, Netherland, <sup>3</sup> INFN/LNS, Italy, <sup>4</sup> MAPRAD Srl, Italy, <sup>5</sup> Abant İzzet Baysal Universitesi, Turkey, <sup>6</sup> Ortadogu Teknik Universitesi, Turkey

### WE 5 DEVELOPMENT OF BEAM CURRENT MONITOR WITH HTS SQUID AND HTS CURRENT SENSOR

T. Watanabe, Y. Sasaki, N Fukunishi and M. Kase

*The Institute of Physical and Chemical Research, Japan*

## SESSION E: ION SOURCES

### WE 6 LATEST DEVELOPMENTS IN ECR CHARGE BREEDERS

T. Lamy

*Laboratoire de Physique Subatomique et de Cosmologie, UJF Grenoble 1, CNRS/IN2P3, INPG, France*

### WE 7 INITIAL RESULTS OF THE ECR CHARGE BREEDER FOR THE <sup>252</sup>Cf FISSION SOURCE PROJECT (CARIBU) AT ATLAS

R. Vondrasek, R. Scott, J. Carr and R. Pardo

*Argonne National Laboratory, USA*

### WE 8 ION BEAM COCKTAIL DEVELOPMENT AND ECR ION SOURCE PLASMA PHYSICS EXPERIMENTS AT JYFL

O. Tarvainen, H. Koivisto, T. Ropponen, V. Toivanen, and T. Kalvas

*University of Jyväskylä, Department of Physics, Accelerator Laboratory, Finland*

### WE 9 METAL ION BEAM AND BEAM TRANSMISSION DEVELOPMENT AT JYFL

H. Koivisto, O. Tarvainen, T. Ropponen, V. Toivanen and M. Savonen

*University of Jyväskylä, Department of Physics, Finland*

### WE 10 SUPERCONDUCTING ECR ION SOURCE DEVELOPMENT AT LBNL

D. Leitner, C. Lyneis, G. Sabbi, P. Ferracin, S. Prestemon and S. Caspi

*Lawrence Berkeley National Laboratory, USA*

### WE 11 A HIGH-PERFORMANCE ELECTRON BEAM ION SOURCE

J. Alessi

*Collider-Accelerator Department, Brookhaven National Laboratory, USA*

## **WE 12 ACCELERATION OF HEAVY IONS GENERATED BY ECR AND EBIS**

R. Becker<sup>1</sup> and O. Kester<sup>2</sup>

<sup>1</sup> IAP, Universität Frankfurt, Germany <sup>2</sup> NSCL, MSU, USA

## **WE 13 DRESDEN ELECTRON BEAM ION SOURCES: LATEST DEVELOPMENTS**

G. Zschornack<sup>1</sup>, V.P. Ovsyannikov<sup>2</sup>, F. Grossmann<sup>2</sup>, R. Heller<sup>3</sup>, U. Kentsch<sup>2</sup>, M. Kreller<sup>1</sup>, M. Schmidt, A. Schwan<sup>2</sup> and F. Ullmann<sup>2</sup>

<sup>1</sup> Technische Universität Dresden, Institute of Applied Physics, Germany, <sup>2</sup> DREEBIT GmbH Dresden, Germany, <sup>3</sup> Forschungszentrum Dresden-Rossendorf, Institute of Ion Beam Physics and Materials Research, Germany

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O. Toader and F. Naab

University of Michigan, USA

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R. Laxdal

TRIUMF, Canada

### **TH 2 COMMISSIONING OF THE ATLAS UPGRADE CRYOMODULE**

P. Ostroumov, J. Fuerst, S. Gerbick, M. Kelly, M. Kedzie, S. Macdonald, R. Pardo, S. Sharamentov, K. Shepard and G. Zinkann

Argonne National Laboratory, USA

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G. Zinkann<sup>1</sup>, J.D. Fuerst<sup>1</sup>, S.M. Gerbick<sup>1</sup>, M.P. Kelly<sup>1</sup>, M. Kedzie<sup>1</sup>, S. Macdonald<sup>1</sup>, P.N. Ostroumov<sup>1</sup>, R.C. Pardo<sup>1</sup>, S. Sharamentov<sup>1</sup>, K.W. Shepard<sup>2</sup> and Z. Conway<sup>3</sup>

<sup>1</sup> Argonne National Laboratory, USA, <sup>2</sup> TechSource, Inc., USA, <sup>3</sup> Presently at Cornell University, USA

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M. Marchetto

TRIUMF, Canada

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M. Pasini<sup>1</sup>, S. Calatroni<sup>1</sup>, A. D'Elia<sup>2,3</sup>, M. Fraser<sup>1,3</sup>, C. Maglioni<sup>1,3</sup>, V. Parma<sup>1</sup>, P. Trilhe<sup>1</sup> and M. Lindroos<sup>1</sup>

<sup>1</sup> CERN, Switzerland, <sup>2</sup> Cockcroft Institute, UK, <sup>3</sup> Manchester University, UK

### **TH 6 DEVELOPMENT OF HEAVY ION ACCELERATOR AND ASSOCIATED SYSTEMS**

D. Kanjilal

Inter University Accelerator Centre (IUAC), Aruna Asaf Ali Marg, India

### **TH 7 OPERATIONAL EXPERIENCE OF THE SUPERCONDUCTING LINAC BOOSTER AT MUMBAI**

R. Pillay<sup>1</sup>, B. Srinivasan<sup>2</sup>, V. Nanal<sup>1</sup>, J.N. Karande<sup>1</sup>, S.S. Jangam<sup>1</sup>, S.K. Singh<sup>2</sup>, P. Dhumal<sup>1</sup>, M.S. Pose<sup>1</sup>, C. Rozario<sup>1</sup>, S.K. Sarkar<sup>1</sup>, R.D. Deshpande<sup>1</sup> and S.R. Sinha<sup>1</sup>

<sup>1</sup> Tata Institute of Fundamental Research, India, <sup>2</sup> Bhabha Atomic Research Center, India

### **TH 8 MULTIPLE CHARGE STATE ION BEAM ACCELERATION WITH AN RFQ LINAC**

J. Tamura<sup>1</sup>, T. Hattori<sup>1</sup>, N. Hayashizaki<sup>1</sup>, T. Ishibashi<sup>1</sup>, T. Ito<sup>1</sup>, T. Kanesue<sup>1</sup>, H. Kashiwagi<sup>2</sup> and M. Okamura<sup>3</sup>

<sup>1</sup> Tokyo Institute of Technology, Japan, <sup>2</sup> Japan Atomic Energy Agency, Japan, <sup>3</sup> Brookhaven National Laboratory, USA

**TH 9 UPGRADE OF THE HIT INJECTOR LINAC-FRONTEND**

S. Yaramyshev<sup>1</sup>, W. Barth<sup>1</sup>, M. Maier<sup>1</sup>, A. Orzhenkhovskaya<sup>1</sup>, B. Schlitt<sup>1</sup>, H. Vormann<sup>1</sup>, R. Cee<sup>2</sup> and A. Peters<sup>2</sup>

<sup>1</sup> GSI, Germany <sup>2</sup> HIT, Germany

**TH 10 STATUS OF LINAC BEAM COMMISSIONING FOR THE ITALIAN HADRON THERAPY CENTER CNAO**

P.A. Posocco<sup>1,2</sup>, G. Clemente<sup>3</sup>, K. M. Kleffner<sup>3</sup>, M. Maier<sup>3</sup>, A. Reiter<sup>3</sup>, B. Schlitt<sup>3</sup>, H. Vormann<sup>3</sup>, G. Balbinot<sup>4</sup>, E. Bressi<sup>4</sup>, M. Caldara<sup>4</sup>, A. Parravicini<sup>4</sup>, M. Pullia<sup>4</sup>, E. Vacchieri<sup>4</sup>, S. Vitulli<sup>4</sup>, C. Biscari<sup>5</sup>, G. Ciavola<sup>6</sup>, S. Gammino<sup>6</sup>, A. Pisent<sup>2</sup>, C. Roncolato<sup>2</sup> and C. Sanelli<sup>5</sup>

<sup>1</sup> Consorzio RFX, Italy, <sup>2</sup> INFN/LNL, Italy, <sup>3</sup> GSI, Germany, <sup>4</sup> CNAO Foundation, Italy, <sup>5</sup> INFN/LNL, Italy, <sup>6</sup> INFN/LNS, Italy

**FR 1 THE GSI UNILAC UPGRADE PROGRAM TO MEET FAIR REQUIREMENTS**

L. Dahl

GSI, Germany

**FR 2 STATUS OF CONSTRUCTION AND COMMISSIONING OF THE GSI HITRAP DECELERATOR**

O. Kester<sup>1</sup>, W. Barth<sup>2</sup>, P. Gerhard<sup>2</sup>, F. Herfurth<sup>2</sup>, M. Kaiser<sup>2</sup>, H.J. Kluge<sup>2</sup>, S. Koszudowski, C. Kozuharov<sup>2</sup>, G. Maero<sup>2</sup>, W. Quint<sup>2</sup>, A. Sokolov<sup>2</sup>, T. Stöhlker<sup>2</sup>, W. Vinzenz<sup>2</sup>, G. Vorobjev<sup>2</sup>, D. Winters<sup>2</sup>, B. Hofmann<sup>3</sup>, J. Pfister<sup>3</sup>, A. Schempp<sup>3</sup>, U. Ratzinger<sup>3</sup> and L. Dahl<sup>2</sup>

<sup>1</sup> NSCL, Michigan State University, USA, <sup>2</sup> GSI, Germany, <sup>3</sup> Goethe Universität, Germany

**FR 3 IMPROVED ON LINE PERFORMANCE OF THE INSTALLED ALPI NB SPUTTERED QWRS**

A.M. Porcellato, S. Stark, F. Chiurlotto, F. Stivanello and L. Boscagli

INFN/LNL, Italy

**FR 4 OPERATIONAL EXPERIENCE IN PIAVE-ALPI COMPLEX**

E. Fagotti<sup>1,2</sup>, G. Bassato<sup>2</sup>, A. Battistella<sup>2</sup>, G. Bisoffi<sup>2</sup>, S. Canella<sup>2</sup>, D. Carlucci<sup>2</sup>, M. Cavenago<sup>2</sup>, M. Comunian<sup>2</sup>, A. Facco<sup>2</sup>, A. Galata<sup>1,2</sup>, A. Lombardi<sup>2</sup>, P. Modanese<sup>2</sup>, F. Moisisio<sup>2</sup>, A. Pisent<sup>2</sup>, M. Poggi<sup>2</sup>, A.M. Porcellato<sup>2</sup>, P.A. Posocco<sup>1,2</sup>, C. Roncolato<sup>2</sup> and S. Stark<sup>2</sup>

<sup>1</sup> Consorzio RFX, Italy, <sup>2</sup> INFN/LNL, Italy

**SESSION GENERAL TOPICS**

**FR 5 TOWARDS GEV LASER-DRIVEN ION ACCELERATION**

B. M. Hegelich<sup>1,2</sup>

<sup>1</sup> Los Alamos National Laboratory, USA, <sup>2</sup> Ludwig-Maximilian Universität München, Germany

**FR 6 LASER ACCELERATED IONS AND THEIR POTENTIAL USE FOR THERAPY ACCELERATORS**

I. Hofmann

GSI, Germany

**FR 7 HEAVY ION IRRADIATION OF NUCLEAR REACTOR FUEL**

H. Palancher

CEA, France