



May 20<sup>th</sup>-25<sup>th</sup>, 2012  
Hotel Alexander, AbanoTerme (Padova), Italy

---

### THIRD CIRCULAR

The third international EURORIB conference "EURORIB'12" will be held from May 20<sup>th</sup> to May 25<sup>th</sup> 2012, at Abano Terme (Padova), Italy.

The Conference programme will begin on Monday May 21<sup>st</sup> at 9:00 and will close on Friday May 25<sup>th</sup> at 14:00. Registration will open on Sunday, May 20<sup>th</sup> at 17:00.

#### SCOPE OF THE CONFERENCE

Our nuclear physics community is eagerly awaiting the construction of the next generation of Radioactive Ion Beam (RIB) facilities in Europe: HIE-ISOLDE@CERN, NUSTAR@FAIR, SPES@LNL, SPIRAL2@GANIL and the future EURISOL. The collaborations built around these facilities are exploring new experimental and theoretical ideas that will advance our understanding of nuclear structure through studies of exotic nuclei. Following in the spirit of the conferences held in Giens in 2008 and Lamoura in 2010, EURORIB'12 will provide the opportunity for the different collaborations to come together and present these ideas, and explore the synergies between the research programmes based around the different accelerator projects.

#### SCIENTIFIC PROGRAMME

The scientific programme includes invited talks, selected oral and poster presentations on the following topics:

- Future RIB facilities
- At and beyond the dripline and new modes of radioactivity
- Nuclear structure far from stability
- Heavy and superheavy nuclei
- Dynamics and Thermodynamics of exotic nuclear systems
- Nuclear astrophysics
- Fundamental interactions
- Applications to other fields
- Production and manipulation of RIB
- Instrumentation

Invited speakers are allowed for a total time of 25 minutes (+ 5 minutes discussion). The allotted time for oral presentations is 15 (+5) minutes.

All speakers are asked to transfer their presentations (Power Point or PDF) one day before their talk or early in the morning.

Posters should be presented in A0 format (841 × 1189 mm) and should be affixed prior to the poster session. They have to be removed by Friday morning. The boards for displaying posters will be marked with a poster code. Please, check in the abstract book the number given to your poster.

The three best posters, selected by the participants, will be given the opportunity of a 10 minute oral presentation on Thursday afternoon.

#### **List of Invited Speakers:**

D. Ackermann (GSI, Darmstadt, Germany)  
D. Beaumel (IPN-Orsay, France)  
G. Bollen (FRIB, Michigan State University, USA)  
P. Butler (University of Liverpool, UK)  
P. Delahaye (GANIL, France)  
A. Di Pietro (INFN LNS, Catania, Italy)  
K. Flanagan (CERN, Genève, Switzerland)  
S. Goriely (Université Libre de Bruxelles, Belgium)  
F. Gramegna (INFN LNL, Legnaro, Italy)  
W. Henning (Riken Nishina Center, Japan)  
M. Huyse (University of Leuven, Belgium)  
S. Kreim (CERN, Genève, Switzerland)  
S. Leray (CEA Saclay, France)  
A. Maj (IFJ PAN, Krakow, Poland)  
O. Naviliat-C. ( Michigan State University, USA)  
T. Nilsson (Chalmers Univ. of Technology, Gothenburg, Sweden)  
A. Poves (Universidad Autónoma de Madrid, Spain)  
G. Prete (INFN LNL, Legnaro, Italy)  
M. Rejmund (GANIL, France)  
H. Savajols (GANIL, France)  
M. Tomut (GSI, Darmstadt, Germany)  
J.J. Valiente-Dobon (INFN LNL, Legnaro, Italy)  
E. Vigezzi (INFN Milano, Italy)

#### **COLLABORATION MEETINGS**

Two rooms are available for collaboration meetings. Please, contact EURORIB'12 Secretariat ([eurorib12@lnl.infn.it](mailto:eurorib12@lnl.infn.it)) for bookings.

#### **VENUE**

The conference will be held at the **Venetian Congress Centre (Centro Congressi delle Venezie)** located in the **Alexander Palace Hotel**\*\*\*\* at Abano Terme (Padova), Italy. A few kilometers from Padua and surrounded by the relaxing greenery of the Euganean Hills, Abano Terme is a thermal town, famous worldwide for its healing mud and spa treatments. The hotel offers two swimming pools, free for participants.

Wi-fi is free for all EURORIB'12 registrants at the Conference place.

The Conference address is:  
Via Martiri D'Ungheria, 24 - 35031 Abano Terme (Padova), Italy  
Tel (+39).049.8615111 - Fax (+39).049.8615199  
Google map at: <http://www.alexanderpalace.it/contacts.php>

## TRAVEL

Participants should organize their own trip to Abano Terme. Abano can be reached:

### **By air:**

The nearest airport is Venezia (Venice) Airport "Marco Polo" at Tessera-Venezia.

Buses to the conference site will be organized on Sunday afternoon for the arrival and on Friday afternoon for the departure. You are kindly invited to tick the proper box in the registration form.

Bus times are as follows:

### **Sunday May 20, 2012**

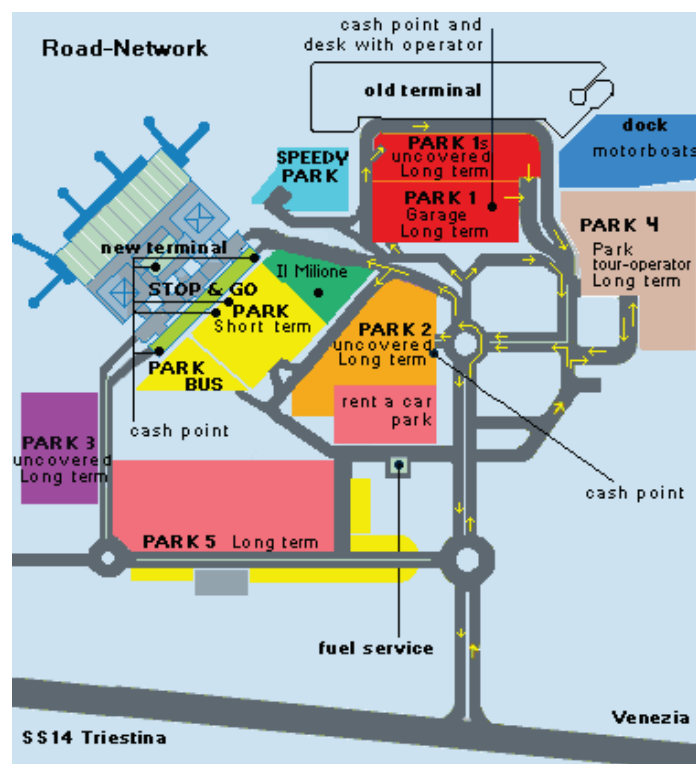
- **13:00:** from Venice Airport to Hotel Alexander, Abano Terme
- **17:00:** from Venice Airport to Hotel Alexander, Abano Terme

### **Friday May 25, 2012**

- **15:00:** from Hotel Alexander, Abano Terme to Venice Airport

### **Meeting Point:**

Outside the Airport, turn on the right, 150mt towards the PARK BUS (in yellow on the map). Look for a BUS of the transportation firm "MICHIELOTTO", carrying the EURORIB'12 logo in front.



For participants arriving on other days or times, there are SITA buses from Venice Airport direct to Abano Terme (90 minutes ride). You can check timetable [here](#)

<http://ro.autobus.it/ro/asp/RicercaOrari.asp?User=SITA> (Departure bus stop: VENEZIA AEROPORTO MARCO POLO TESSERA, Arrival bus stop: ABANO COLUMBUS). Get off at Piazza C. Colombo, in front of the Hospital of Abano.

There is also a private shuttle service from the Airport at the cost of 30€ per transfer (70€ after 22:30). Should you need this service, you are kindly asked to fill in the form available on the conference web site and send it via e-mail to the Conference Secretariat (eurorib12@Inl.infn.it).

**By Train:**

Padova is at the crossroad of the Venezia-Milano and Venezia-Roma railways: many trains are available. Once in Padova there is a regular bus service (APS) from Padova Railway Station to Abano Terme (lines A, AT, M, T). The trip takes about 40 minutes.

A few local trains also stop at Terme Euganee-Montegrotto which is only 5 Km from Abano.

**By Car:**

Abano can be reached by car on the A4 Milano-Venezia Motorway, exit “Padova ovest”, then take the bypass west (Corso Australia) until the turn-off for Abano. Follow the provincial road that takes you from Padua to Abano and after 4 km you will reach the thermal centre.

For those who arrive from the A13 motorway (Bologna-Padua) take the “Terme Euganee” exit, then follow the SS Adriatica towards Padua and at the Mezzavia cross-road turn left. After the underpass continue towards Abano.

**REGISTRATION and ACCOMMODATION**

After March 20, 2012	
<b>PARTICIPANT</b>	
Single room with full board	850€
Shared twin bedroom with full board	700€ per person
<b>ACCOMPANYING PERSON(S)</b> (in double room including full board)	360€
<b>ADDITIONAL NIGHTS</b>	
In single room (with full board)	99€
In double room (with full board)	64,50€
<b>SOCIAL EXCURSION</b> to be paid along with accommodation	30€ per person

The Participant registration fee includes:

- the book of abstracts;
- accommodation and full board from May 20 (Sunday dinner) to May 25 (Friday lunch);
- coffee breaks;
- welcome cocktail on Sunday evening;
- visit to LNL and conference dinner.

The Accompanying Person’s fee includes:

- accommodation and full board from May 20 (Sunday dinner) to May 25 (Friday lunch);
- coffee breaks;
- welcome cocktail on Sunday evening;
- visit to LNL and conference dinner.

To increase the interactions among participants, we ask the participants to stay for the full 5 days of the conference.

After having registered on EURORIB'12 site (<http://eurorib12.lnl.infn.it/>), please refer to the Agenzia Leonardi's web site (<https://www.leonardiviaggi.com/eurorib12registration.php>) for accommodation and payment.

For your reference:

Agenzia Viaggi e Turismo Leonardi  
Corso del Popolo 14, Padova, Italy  
Ph.: +39-049-650455 Fax: +39-049-661391  
e-mail: [raffaella@leonardiviaggi.com](mailto:raffaella@leonardiviaggi.com)

Payment can be made by credit card using the e-payment system of the Agenzia Leonardi's web page or by bank transfer. Agenzia Leonardi will confirm your reservation and will acknowledge payment after receipt of the fees.

If you choose to pay by bank transfer it is very important that your name and the name of the conference is clearly mentioned on the transfer. A duplicate or a photocopy of the transfer order issued by the bank must be mailed or faxed to Agenzia Leonardi.

N.B.: Please make sure that the full conference fee is transferred into the conference bank account and that any charges incurred are paid by your account.

Bank transfers should be made to the following bank account:

Agenzia Viaggi e Turismo Leonardi – Corso del Popolo 14, Padova – Italy

Banca Nazionale del Lavoro - BNL

IBAN: IT88D010051210100000004070

REFERENCE: "EURORIB'12 – YOUR NAME"

In case registration fees are not credited on time to the conference account, participants are advised to bring with them a copy of their proof of payment (bank transfer or other justification) or their acknowledgement of receipt.

### **Cancellation**

In case of written cancellation **before April 20th**, the registration fee will be refunded. After this date no refund will be possible.

### **SOCIAL EVENTS**

During the conference the following events are planned:

- ✓ A welcome cocktail will be served on **Sunday, May 20**, at 18:30 in the hall of Hotel Alexander.
- ✓ On **Wednesday, May 23**, at 14:00, an excursion to Padova by boat along the waterway of the Piovego canal will be organized. After the excursion by boat, free time can be spent in Padova downtown or an optional visit to LNL will be organized.
- ✓ On **Thursday, May 24**, the conference dinner will take place at Restaurant "Al Pirio da Giona", Via Pirio 10 - 35038 - Torreglia (PD), on the Euganean Hills.

### Organizing Committee

Giovanni La Rana (Chair), INFN and University of Napoli, Italy  
Yorick Blumenfeld, CERN, Switzerland  
Giacomo de Angelis, INFN Legnaro, Italy  
Marek Lewitowicz, SPIRAL2-GANIL, Caen, France  
Christoph Scheidenberger, GSI - University of Giessen, Germany  
Piet Van Duppen, University of Leuven, Belgium

### International Advisory Committee

Nicolas Alamanos, CEA/Irfu, Saclay, France  
Juha Äystö, University of Jyväskylä, Finland  
Faïçal Azaiez, Institut de Physique Nucléaire d'Orsay, France  
Jose Benlliure, University of Santiago de Compostela, Spain  
Klaus Blaum, Max Planck Institute for Nuclear Physics, Heidelberg, Germany  
Angela Bonaccorso, INFN-Pisa, Italy  
María José G<sup>a</sup> Borge, CSIC Madrid, Spain  
Peter Butler, University of Liverpool, U.K.  
Franco Camera, INFN-Milano and University of Milano, Italy  
Lorenzo Corradi, INFN-Legnaro, Legnaro, Italy  
Hans Feldmeier, GSI Darmstadt, Germany  
Angela Gargano, INFN-Napoli, Italy  
Hans Geissel, GSI Darmstadt, Germany  
Dominique Guillemaud Mueller, CNRS/IN2P3, Paris, France  
Muhsin N. Harakeh, KVI Groningen, The Netherlands  
Paul-Henri Heenen, Université libre de Bruxelles, Belgium  
Ulli Köster, Institut Laue Langevin, Grenoble, France  
Marcello Lattuada, INFN-LNS and University of Catania, Italy  
Matti Leino, University of Jyväskylä, Finland  
Witold Nazarewicz, University of Tennessee, Knoxville, USA  
Alessandro Olmi, INFN-Firenze, Italy  
Peter Reiter, IKP-University of Cologne, Germany  
Kerstin Sonnabend, University of Frankfurt, Germany  
Nathal Severijns, K.U. Leuven, Belgium  
Olivier Sorlin, GANIL, Caen, France  
Christina Trautmann, GSI Darmstadt, Germany

### Conference Secretaries

Federica Antonacci (INFN-Legnaro)  
Anna D'Este (INFN-Legnaro)  
Daniela Zane (INFN-Legnaro)  
Silvia Zanella (INFN-Legnaro)

### **CONTACT ADDRESS**

e-mail: [eurorib12@lnl.infn.it](mailto:eurorib12@lnl.infn.it)  
web page: <http://eurorib12.lnl.infn.it/>

## Scientific Programme

### Sunday, May 20<sup>th</sup>

13:00	Bus from Venice Airport
17:00	Bus from Venice Airport
16:30-18:30	REGISTRATION
18:30	Welcome Cocktail

### Monday, May 21<sup>st</sup>

8:00-9:00	REGISTRATION
9:00-9:15	<i>Welcome by the Conference Chairman and by the LNL Director</i>
9:15-9:30	<b><i>The 50 years of the Legnaro Laboratory in the history of nuclear physics in Italy</i></b> R.A. RICCI, INFN LNL, Legnaro, Italy

#### **SESSION** *Nuclear Structure far from Stability* *Convener: NAZAREWICZ, Witold (Univ. of Tennessee)*

9:30	<b><i>Nuclear structure of exotic neutron rich nuclei with AGATA</i></b> J.J. VALIENTE DOBON, INFN LNL, Legnaro, Italy
10:00	<b><i>Recent results using VAMOS spectrometer</i></b> M. REJMUND, GANIL, Caen, France
10:30	<b><i>Lifetimes of excited states in neutron-rich Zn isotopes using the AGATA demonstrator</i></b> C. LOUCHART, CEA Saclay, France
10:50	<b><i>Evolution of the structure of neutron rich calcium isotopes with microscopic two- and three-body forces</i></b> J. MENENDEZ, Technical University Darmstadt, Germany
11:10-11:30	Coffee break

#### **SESSION** *Nuclear Structure far from Stability* *Convener: GARGANO, Angela (INFN Napoli)*

11:30	<b><i>Shape coexistence at the neutron rich edge; the cases of N=20, 28 and 40</i></b> A. POVES, Universidad Autónoma de Madrid, Spain
12:00	<b><i>Study of nuclei north-east of <sup>48</sup>Ca with realistic effective hamiltonians</i></b> L. CORAGGIO, INFN Napoli, Italy
12:20	<b><i>Shell evolution and effective three-body forces in the newly-explored neutron-rich region around Z=82 and far beyond N=126</i></b> A. GOTTARDO, INFN LNL, Legnaro, Italy
12:40	<b><i>Study of quadrupole collectivity in neutron-rich <sup>128</sup>Cd</i></b> T. KROELL, Technical University Darmstadt, Germany
13:00-14:30	Lunch

<b>SESSION</b>		<b>Future RIB Facilities</b>	<b>Convener: LEWITOWICZ, Marek (GANIL)</b>
14:30	<b>Physics case and status of the HIE-ISOLDE project</b> M. HUYSE, University of Leuven, Belgium		
15:00	<b>Physics opportunities with SPIRAL2</b> H. SAVAJOLS, GANIL, Caen, France		
15:30	<b>The SPES project at the INFN-Legnaro National Laboratories</b> G. PRETE, INFN LNL, Legnaro, Italy		
16:00	<b>Towards EURISOL</b> Y. BLUMENFELD, CERN, Genève, Switzerland		
16:30-17:00	Coffee break		

<b>SESSION</b>		<b>Future RIB Facilities</b>	<b>Convener: HERLERT, Alexander (GSI)</b>
17:00	<b>Radioactive Beams at FAIR - the NUSTAR programme</b> T. NILSSON, Chalmers Univ. of Technology, Gothenburg, Sweden		
17:30	<b>Long range plane with radioactive beams at Dubna</b> A. FOMICHEV, FLNR Joint Institute for Nuclear Research, Dubna, Russia		
17:50	<b>The ISOL@MYRRHA project at SCK•CEN</b> L. POPESCU, SCK-CEN, Mol, Belgium		

## Tuesday, May 22<sup>nd</sup>

<b>SESSION</b>		<b>Nuclear Structure far from Stability</b>	<b>Convener: NEYENS, Gerda (KU Leuven)</b>
9:00	<b>Perspectives for laser spectroscopy at the next generation of European RIB facilities</b> K. FLANAGAN, CERN, Genève, Switzerland		
9:30	<b>Ground States and Isomers of Cadmium by High-Resolution Laser Spectroscopy</b> D. T. YORDANOV, Max-Planck-Institut für Kernphysik, Heidelberg, Germany		
9:50	<b>The observation of a strong E0 component in the 2+2--&gt;2+1 transition in <sup>184</sup>Hg from the beta-decay of laser-ionized thallium isotopes: a strong signature for shape coexistence</b> E. RAPISARDA, IKS Katholieke Universiteit Leuven, Belgium		
10:10	<b>A dynamical model for halo nuclei and two-nucleon transfer reaction</b> E. VIGEZI, INFN Milano, Italy		
10:40	<b>Ab-initio Green's function calculations of medium-mass open-shell nuclei</b> V. SOMÁ, EMMI/TU-Darmstadt, Germany		
11:00-11:30	Coffee break		

<b>SESSION</b>		<b>Instrumentation</b>	<b>Convener: CARDELLA, Giuseppe (INFN Catania)</b>
11:30	<b>Novel large scintillator arrays for RIB facilities</b> A. MAJ, IFJ PAN, Krakow, Poland		
12:00	<b>TRACE status and perspective for the new RIB facilities</b> D. MENGONI, INFN Padova, Italy		
12:20	<b>Experiments with stored ions at ISOLDE: TSR@HIE-ISOLDE proposal</b> R. RAABE, Instituut voor Kern- en Stralingsfysica, KU Leuven, Belgium		



12:40 **Resonance Ionization Laser Spectroscopy with the Leuven gas cell-based Laser Ion Source**  
R. FERRER GARCIA, *Instituut voor Kern- en Stralingsfysica, KU Leuven, Belgium*

13:00-14:30 Lunch

**SESSION Nuclear Astrophysics**

**Convener: SCHEIDENBERGER, Christoph (GSI)**

14:30 **Nucleosynthesis: a field with still many open nuclear physics questions**

S. GORIELY, *Université Libre de Bruxelles, Belgium*

15:00 **What masses can teach us about stellar evolution**

S. KREIM, *CERN, Genève, Switzerland*

15:30 **JYFLTRAP Penning trap - a tool to study isomers for nuclear structure and astrophysics**

A. KANKAINEN, *University of Jyväskylä, Finland*

15:50 **Beta decay and isomeric studies of proton-rich nuclei near the endpoint of the rp-process**

A. BECERRIL, *Instituto de Estructura de la Materia CSIC, Madrid, Spain*

16:10 **Experimental study of the  $^{60}\text{Fe}$  destruction using the  $d(^{60}\text{Fe}, p\gamma)^{61}\text{Fe}$  transfer reaction**

N. DE SEREVILLE, *Institut de Physique Nucléaire d'Orsay, CNRS, Orsay, France*

**16:30-18:30 POSTER SESSION**

17:00 ECOS Steering Committee

**Wednesday, May 23<sup>rd</sup>**

**SESSION Production and Manipulation of RIB**

**Convener: ESSABAA, Saïd (IPNO)**

9:00 **Charge breeding of Radioactive Ion Beams: status and perspectives**

P. DELAHAYE, *GANIL, Caen, France*

9:30 **Heavy ion induced degradation of carbon materials**

M. TOMUT, *GSI Darmstadt, Germany*

10:00 **Recent results on R&D of the SPES production target**

A. ANDRIGHETTO, *INFN LNL, Legnaro, Italy*

10:20 **Uranium Carbide Target Material Development for the Production of Exotic Radioisotopes at ISOLDE-CERN**

A. GOTTBORG, *CERN, Genève, Switzerland and Université Bordeaux, France*

10:40 **Production of radioactive ion beams at ISOLDE with the dual dye and titanium: sapphire RILIS**

B. MARSH, *CERN, Genève, Switzerland*

11:00-11:30 Coffee break

**SESSION Future RIB Facilities**

**Convener: LA RANA, Giovanni (INFN Napoli)**

11:30 **FRIB – Facility for Rare Isotope Beams at MSU**

G. BOLLEN, *FRIB, Michigan State University, USA*

12:00 **The RI Beam Factory at RIKEN: Status and Prospects**

W. HENNING, *RIKEN Nishina Center, Japan*

- 12:30-14:00 Lunch
- 14:00-19:00 Excursion and/or visit to LNL

## Thursday, May 24<sup>th</sup>

### SESSION *Nuclear Structure far from Stability*

*Convener: VAN DUPPEN, Piet (IKS-KU Leuven)*

- 9:00 **Perspectives in transfer reactions at next generation European RIB facilities**  
D. BEAUMEL, IPN-Orsay, France
- 9:30 **Shell structure far off stability studied via high-energy reactions**  
C. NOCIFORO, GSI, Darmstadt, Germany
- 10:00 **Isomeric beams: population of high-spin states in projectile fragmentation**  
Z. PODOLYAK, University of Surrey, UK
- 10:20 **Spectroscopic factors far from stability**  
A. GILLIBERT, CEA/IRFU/SPhN, France
- 10:40 **Isomer and ground-state properties of stored exotic nuclei**  
P. WALKER, University of Surrey and CERN
- 11:00-11:30: Coffee break

### SESSION *Heavy and Superheavy Nuclei*

*Convener: CORRADI, Lorenzo (INFN LNL)*

- 11:30 **Superheavy Elements – an Island on Quantum Mechanical Grounding**  
D. ACKERMANN, GSI, Darmstadt, Germany
- 12:00 **What can we learn about the shapes of heavy nuclei from Coulex of radioactive beams?**  
P. BUTLER, University of Liverpool, UK
- 12:30-14:00 Lunch

### SESSION *Fundamental Interactions*

*Convener: KOWALSKA, Magda (CERN)*

- 14:00 **Trends in the study of fundamental interactions with radioactive beams**  
O. NAVILIAT-C., Michigan State University, USA
- 14:30 **First results on <sup>35</sup>Ar obtained at WITCH**  
M. BREITENFELDT, Instituut voor Kern- en Stralingsfysica, KU Leuven, Belgium
- 14:50 **Beta-neutrino correlation measurements with LPCTrap**  
E. LIENARD, LPC Caen, France

### SESSION *Applications to other Fields*

*Convener: KOWALSKA, Magda (CERN)*

- 15:10 **New trends in nuclear physics applications**  
S. LERAY, CEA Saclay, France
- 15:40 **Radioisotopes for nuclear medicine**  
U. KOESTER, Institut Laue Langevin, Grenoble, France
- 16:00 **Nuclear techniques for studying soft matter at ISOLDE**  
M. STACHURA, University of Copenhagen, Denmark

16:20-16:40 Coffee break

**SESSION At and beyond the Dripline and New Modes of Radioactivity**

**Convener: PIERROUTSAKOU, Dimitra (INFN Napoli)**

16:40 **Halo nuclei: stepping stones across the drip-line**

H. SIMON, GSI, Darmstadt, Germany

17:10 **Identification of  $^{10}\text{He}$  low-lying states in the  $^3\text{H}(^8\text{He},p)^{10}\text{He}$  reaction**

S. SIDORCHUK, FLNR, Joint Institute for Nuclear Research, Dubna, Russia

**17:30 Poster prize presentations**

19:30 Bus to the Restaurant

20:00-23:00 Conference dinner

**Friday, May 25<sup>th</sup>**

**SESSION Dynamics and Thermodynamics of Exotic Nuclear Systems**

**Convener: CASINI, Giovanni (INFN Firenze)**

9:00 **Perspectives of nuclear dynamics and thermodynamics with Radioactive Ion Beams**

F. GRAMEGNA, INFN LNL, Legnaro, Italy,

9:30 **Influence of neutron enrichment on compound system formation and decay in  $^{78}\text{Kr} + ^{40}\text{Ca}$  and  $^{86}\text{Kr} + ^{48}\text{Ca}$  reactions at 10 A MeV**

S. PIRRONE, INFN Catania, Italy

09:50 **Dynamical Dipole and EOS in N/Z asymmetric fusion reactions with stable and unstable beams**

A. GIAZ, INFN Milano, Italy

10:10 **Reaction dynamics with halo nuclei**

A. DI PIETRO, INFN LNS Catania, Italy

10:40 **Elastic scattering of the halo nucleus  $^{11}\text{Li}$  and its core  $^9\text{Li}$  on  $^{208}\text{Pb}$  at energies around the Coulomb barrier**

M. CUBERO, Instituto Estructura de la Materia, CSIC, Madrid, Spain

11:00-11:30: Coffee break

**SESSION Nuclear Structure far from Stability**

**Convener: DE ANGELIS, Giacomo (INFN LNL)**

11:30 **Coulomb excitation of  $^{200}\text{Po}$  studied at REX-ISOLDE with the Miniball  $\gamma$  spectrometer**

N. KESTELOOT, IKS KU Leuven, SCK-CEN, Mol, Belgium

11:50 **Study of the  $^{84}\text{Ga}$  beta-decay at the ALTO facility**

K. KOLOS, IPN, Orsay/CNRS/University of Paris Sud, Orsay, France

12:10 **Hindered proton collectivity in the proton-rich nucleus  $^{28}\text{S}$**

Y. TOGANO, EMMI GSI, Darmstadt, Germany

12:30 **Transfer reaction studies of neutron rich Be isotopes**

J. JOHANSEN, University of Aarhus, Denmark

12:50 **Study of the weakly bound nucleus  $^{26}\text{F}$**

A. LEPAILLEUR, GANIL, Caen, France

13:10-15:00 Lunch

15:00 Bus to Venice Airport

## LIST of POSTERS

### *Future RIB Facilities*

- P1. **Status and future perspectives of the HIE-ISOLDE project at CERN**  
VANDONI G. et al.

### *Nuclear structure far from stability*

- P2. **Investigating shape coexistence in the lead region with in-source laser spectroscopy at ISOLDE-RILIS**  
COCOLIOS T.E. et al.
- P3. **Neutron halo rotation in  $^{11}\text{Be}$  and  $^9\text{Be}$**   
DEMYANOVA A. et al.
- P4. **RDDS lifetime measurements of yrast states in  $^{184,186,188}\text{Hg}$**   
HACKSTEIN M. et al.
- P5. **Assigning nuclear states in Tl isotopes with the ISOLTRAP decay-spectroscopy setup**  
KOWALSKA M. et al.
- P6. **Beta delayed fission studies of the neutron deficient Tl, At and Fr nuclei**  
LIBERATI V.
- P7. **Study of  $^{74}\text{Ni}$  collectivity by Coulomb excitation**  
MARCHI T. et al.
- P8. **Lifetime measurements in  $^{63,65}\text{Co}$**   
MODAMIO HOYBJOR V. et al.
- P9. **Laser spectroscopy on neutron-rich  $^{48-51}\text{K}$  isotopes**  
NEYENS G. et al.
- P10. **In-beam gamma-ray spectroscopy and lifetime measurement of neutron-rich N=51 isotones**  
NIIKURA M. et al.
- P11. **Beta-decay study of the even-mass  $^{64,66,68}\text{Mn}$  isotopes**  
PAUWELS D. et al.
- P12. **Excitation of unbound states in  $^{12}\text{B}$  via the  $^8\text{Li}$  alpha resonant elastic scattering**  
TORRESI D. et al.

### *Heavy and superheavy nuclei*

- P13. **Impact of nuclear structure on production of new superheavy nuclei**  
ADAMIAN G.
- P14. **Shape transition in the neutron-rich Os isotopic chain**  
JOHN P.R. et al.
- P15. **Dynamical dipole mode in fusion heavy-ion reactions by using stable and radioactive beams**  
PARASCANDOLO C. et al.
- P16. **A Quantum Sensor for Direct Mass Measurements on Superheavy Elements**  
CORNEJO J. M. et al.

*Dynamics and thermodynamics of exotic nuclear systems*

- P17. **Fission Fragment and Light Charged particles distribution for  $^{48}\text{Ti}+^{40}\text{Ca}$  at different energies: 600, 450 and 300 MeV.**  
CARBONI S.
- P18. **Use of fragmentation beams with CHIMERA detector at LNS**  
CARDELLA G. et al.
- P19. **Fusion excitation functions in collisions induced by Li isotopes on Sn targets**  
FISICHELLA M. et al.
- P20. **Influence of the potential energy landscape on the fission dynamics**  
MAZUREK K. et al.
- P21. **Odd-even staggering in charge distribution of fragments produced in the reaction  $^{112}\text{Sn}+^{58}\text{Ni}$  at 35 MeV/nucleon**  
PIANTELLI S.

*Production and manipulation of RIB*

- P22. **Liquid Lead technology for neutron spallation source facilities**  
BLINOV M. et al.
- P23. **High power molten salt targets for the production of  $^{18}\text{Ne}$**   
FERNANDES RAMOS J.P. et al.
- P24. **Stable operation of a nanostructured CaO target for the production of Ar beams at CERN-ISOLDE**  
FERNANDES RAMOS J.P. et al.
- P25. **The ISOLDE Laser Ion Source and Trap (LIST) at CERN: Status and Perspectives**  
FINK D. et al.
- P26. **HIE-Isolde Vacuum Systems**  
HERMANN M. et al.
- P27. **Production of  $\text{CO}^+$  and  $\text{CO}_2^+$  radioisotope beams at CERN-ISOLDE using a Helicon-type ion source**  
KRONBERGER M. et al.
- P28. **Collection device for the produced  $^8\text{Li}$  and  $^8\text{B}$  radioactive ions**  
MITROFANOV S. et al.
- P29. **Precise determination of the ionization potential of astatine by in-source laser spectroscopy**  
ROTHER S. et al.
- P30. **Production of short lived radioactive molecular Carbon beams at ISOLDE/CERN**  
SEIFFERT C. et al.
- P31. **Continuous wave formation of highly charged EBIS beams at ISOL facilities**  
TRAYKOV E.
- P32. **Implantation of radioactive nuclei in nuclear track emulsion**  
ZARUBIN P.

*Instrumentation*

- P33. **Development of an on-line high-temperature ion source for neutron-rich fission products at TRIGA-SPEC**  
RENISCH D. et al.
- P34. **Effects of energetic heavy-ion irradiation on digital PSA with silicon detectors**  
BARLINI S.
- P35. **Upgrade of the RIPEN detector system for neutron spectroscopy at LNL**  
CINAUSERO M. et al.
- P36. **Monochromatic electron beams for fundamental physics and applications**  
CORNEJO J. M. et al.
- P37. **SPES: the EPICS control system project**  
GIACCHINI M. et al.
- P38. **SPIDER: a silicon detector array for Coulomb excitation measurements of RIBs**  
MELON B. et al.
- P39. **Images of nuclear clustering in nuclear track emulsion**  
ZARUBINA I. et al.