Monday 28th May 2018
Session 1: Future RIB facilities
09:00 – 11:20

09:00 Introduction (Organizing Committee)

Chair: M. Harakeh

09:10 N. ALAHARI (GANIL - Caen)
Status of the GANIL-SPIRAL2 facility

09:35 P. GIUBELLINO (GSI and FAIR)
Status of the FAIR facility

10:00 A. GARNSWORTHY (TRIUMF)
Status of the ARIEL facility

10:25 M. BORGE (CSIC)
Status of the ISOLDE facility

10:50 L. POPESCU (SCK CEN)
ISOL@MYRRHA and its first phase implementation at the Proton Target Facility

11:05 P. RUSSOTTO (INFN)
Perspectives of the new Fragment In-flight Separator at INFN-LNS

11:20 - 11:40 Coffee break

Session 2: Nuclear structure far from stability
11:40 – 13:15

Chair: W. Korten

11:40 B. FORNAL (IFJ PAN)
Experimental studies of exotic nuclei in deep-inelastic reactions

12:05 D. VERNEY (IPN Orsay)
Nuclear structure investigations in the vicinity of $^{78}$Ni using BEDO@ALTO and AGATA@GANIL

12:30 J. DIAZ CORTES (University of Santiago de Compostela)
Systematic measurements of knockout and total reaction cross sections in medium mass nuclei

12:45 A. GOTTARDO (INFN Legnaro)
Beta-delayed neutron emission to study $^{52,53,54}$Ca

13:00 D. ATANASOV (KU Leuven)
Mass measurements of short-lived nuclei using the ISOLTRAP spectrometer

13:15 - 16:00 Lunch
Session 3: Dynamics and Thermodynamics of exotic nuclear systems
16:00 – 17:45
Chair: H. Lenske

16:00  D. LACROIX (IPN Orsay)
Pairing and quantum fluctuation effects in low energy nuclear reactions

16:25  S. YENNELLO (Texas A &M University)
Experimental investigations of the nuclear equation-of-state

16:50  B. GNOFFO (INFN Catania)
Isospin influence on the Intermediate Mass Fragments dynamical emission at Fermi energy and at low energy

17:05  B. SCHUETRUMPF (TU Darmstadt / GSI)
Clustering in pre-compound nuclei in the TDDFT framework

17:20 - 18:00 Coffee break

Session 4: Direct Reactions with radioactive beams
18:00 – 19:30
Chair: K. Riisager

18:00  P. THIROLF (LMU München)
229mTh and its application as a nuclear clock

18:25  T. KROELL (Technische Universität Darmstadt)
First results from HIE-ISOLDE

18:50  N. ORR (LPC Caen)
Direct reactions with RIB at fragmentation facilities

19:15  Y. BLUMENFELD (IPN Orsay)
Transfer reactions induced with $^{56}$Ni: np pairing and N=28 shell closure

End 19:30
19:30 Welcome cocktail
Dinner
Tuesday 29th May 2018

Session 5: Future RIB facilities

09:00  P. MANTICA (MSU / FRIB)
Status of the Facility for Rare Isotope Beams

09:25  G. PRETE (INFN LNL)
Status of the SPES facility

09:50  K. TANAKA (KEK)
RIB facilities in Asia Pacific

10:15  D. GHITA (ELI-NP/IFIN-HH)
Extreme Light Infrastructure - Nuclear Physics (ELI-NP): Status and Perspectives

10:40  H. SAVAJOLS (GANIL - Caen)
Physics Opportunities With The Super Separator Spectrometer (S3) At The SPIRAL2 Facility

10:55 - 11:15 Coffee break

Session 6: Instrumentation, electronics and data acquisition systems

11:15  A. GADEA (IFIC Valencia)
AGATA array at the European RIB facilities

11:40  T. MARCHI (INFN LNL)
Challenging the extremes of the Nuclear Chart with an Active Target

12:05  H. SIMON (GSI)
Modern multi-purpose data acquisition systems

12:30  A. MAJ (IFJ Kraków)
PARIS gamma calorimeter: status of the project and first experimental results

12:45  B. MAUSS (GANIL Caen)
Commissioning of the ACTAR TPC

13:00  G. POLITI (INFN Catania)
Recent and future developments of the CHIMERA and FARCOS arrays for neutron and gamma detection

13:15 - 15:00 Lunch
15:00 M. HARAKEH (KVI Groningen/GANIL Caen)
Status of the ENSAR2 project

15:20 M. LEWITOWICZ (GANIL Caen)
Beyond ENSAR2

15:35 -16:00
Open discussion (moderator M. Harakeh)

Session 7: Nuclear structure far from stability
16:00 – 17:35
Chair: G. Neyens

16:00 H. LENSKE (Justus-Liebig Universität Giessen)
Hyperons and resonances in nuclear matter

16:25 T. SAITO (GSI)
Hypermultiparticle spectroscopy with heavy ion beams; the past, present and future

16:50 G. BENZONI (INFN Milano)
Evolution of deformation in Ba isotopic chain

17:05 S. BISWAS (GANIL - Caen)
Prompt-delayed gamma-ray spectroscopy of neutron-rich Sb isotopes using AGATA, VAMOS++ and EXOGAM

17:20 S. LEONI (INFN & University of Milano)
Search for shape isomerism in different regions of the nuclear chart by the use of stable and radioactive ion beams

17:35 - 17:50 Coffee break

Session 8: Nuclear astrophysics
17:50 – 18:55
Chair: M. Pfutzner

17:50 A. ARCONES (Technische Universität Darmstadt)
Nucleosynthesis in neutron star mergers

18:15 A. FANTINA (GANIL Caen)
Nuclear Physics input for understanding neutron stars.

18:40 B. RUBIO (CSIC-Univ.Valencia)
First results on the beta decay of the T,=2 nucleus $^{64}$Se

End 18:55
Dinner
Wednesday 30th May 2018
Session 9: Transuranium nuclei & future RIB facilities
09:00 – 11:25
Chair: P. Thirolf

09:00  C. DUELLMANN (University of Mainz and GSI)
News from the chemistry of the heaviest elements around flerovium, element 114

09:25  J. EVEN (University of Groningen)
Recent results on exotic transuranium nuclei

09:50  R. HERZBERG (University of Liverpool)
Spectroscopic studies of heavy and super-heavy nuclei

10:15  M. ITKIS (JINR Dubna)
Recent results and future prospects on SHE studies at FLNR

10:40  A. KARPOV (JINR Dubna)
Production of neutron-rich heavy and superheavy nuclei in multinucleon transfer reactions

10:55  E. VERSTRAELEN (KU Leuven)
Laser Ionization Spectroscopy of $^{225-229}$Ac

11:10  R. BARK (iThemba Labs)
Latest Developments of The South African Isotope Facility

11:25 - 11:45 Coffee break

Session 10: Applications to other fields; Production and manipulation of RIB
11:45 – 13:05
Chair: F. Farget

11:45  U. KOESTER (ILL Grenoble)
Radionuclides in medicine

12:10  W. CATFORD (University of Surrey)
Recent results for direct reactions with RIB at ISOL facilities

12:35  T. COCOLIOS (KU Leuven)
Radioisotopes for medicine: First collection at CERN MEDICIS

12:50  R. HARDING (CERN)
Beta-detected Nuclear Magnetic Resonance: From nuclear physics to biology

13:05 - 14:00 Lunch
EXCURSION

18:30 - 20:00 Poster session
Dinner
Thursday 31st May

Session 11: Production and manipulation of RIB
09:00 – 10:10
Chair: P. Mantica

09:00  P. VAN DUPPEN (KU Leuven)
Recent developments at ISOL-based RIB facilities

09:25  N. LECESNE (GANIL Caen)
REGLIS3 at S3 for the production and laser spectroscopy of high purity refractory RIBs

09:40  C. PARASCANDOLO (INFN Napoli)
The RIB in-flight facility EXOTIC at INFN-LNL

09:55  P. UJIC (GANIL Caen)
Performances of the EBIS debuncher

10:10 - 10:30 Coffee break

Session 12: Nuclear structure far from stability
10:30 – 12:55
Chair: F. Azaiez

10:30  F. NOWACKI (IPHC)
Shell Model far From Stability: Islands Of Inversion Mergers

10:55  R. LICA (IFIN HH)
Results from the Isolde Decay Station

11:20  V. SOMA (CEA IRFU Saclay)
Extending ab-initio calculations towards heavy nuclei

11:45  R. REIFARTH (Goethe Universität Frankfurt)
(p,\gamma) experiments in the ESR

12:10  S. LUKYANOV (JINR)
Fragmentation of the Secondary Radioactive beams of \(^8\)B, \(^7\)Be and \(^6\)Li ions

12:25  O. POLESHCHUK (KU Leuven)
The SpecMAT active target: studies of exotic nuclei via transfer reactions and gamma-ray spectroscopy in high-intensity magnetic fields

12:40  A. CAMAIANI (University of the Studi and INFN di Firenze)
Study of well-selected evaporation chains in the decay of \(^{25}\)Mg. Results and perspective with light radioactive beams.

12:55 - 14:00 Lunch
Special Joint session NUSTAR – EURISOL-DF  
14:00 - 16:40  
*Chairs: Sydney Galès & Christoph Scheidenberger*

14:00   **W. KORTEN** (DPhN/Irfu/CEA Saclay)  
Status of NUSTAR

14:20   **M. LEWITOWICZ** (GANIL Caen)  
Status of EURISOL-DF

14:40   **B. RUBIO** (CSIC-Univ. Valencia)  
Physics with RIB at low and high energy: synergies with stopped beams

15:05   **T. KROELL** (TU Darmstadt)  
Physics with RIB at low and high energy: synergies with fast & post-accelerated beams

15:30   **A. GADEA** (IFIC Valencia)  
Travelling Instrumentation

15:55   Round table

**Session 13: Fundamental interactions**  
16:40 – 17:30  
*Chair: P. Van Duppen*

16:40   **N. SEVERIJNS** (KU Leuven)  
Fundamental interaction experiments with Radioactive Ion Beams

17:05   **J. SUHONEN** (University of Jyväskylä)  
Nuclear decays and the strength of the weak axial coupling

17:30 - 17:50 Coffee break  

**Session 14: Nuclear structure far from stability**  
17:50 – 19:25  
*Chair: W. Walters*

17:50   **JJ VALIENTE DOBON** (INFN – LNL Legnaro)  
High resolution gamma spectroscopy of exotic nuclei using multinucleon transfer reactions

18:15   **J. HOLT** (TRIUMF Vancouver)  
Nuclear Theory for Future Rare-Isotope Beam Facilities

18:40   **K. REZYNKINA** (KU Leuven)  
Studies of shape coexistence using Coulomb excitation of light Hg isotopes

18:55   **K. RIISAGER** (AARHUS University)  
Beta decay and continuum structures

19:10   **A. GIATZOGLOU** (University College London)  
Towards laser cooling and trapping of unstable Cs nuclei (Poster 1)

END 19:25  
20:00 Conference dinner
Friday 1st June

Session 15: Best Posters/Contributions
09:00 – 09:45
Chair: M. Borge

09:00   A. ROTARU (IFIN-HH)
Conceptual design of a cryogenic stopping cell at ELI-NP for the production of RIBs via photo-fission (Poster 3)

09:15   S. KOBZAK (Max Planck Institute for Nuclear Physics)
Laser-nucleus interactions with nucleon emission (Poster 2)

09:30   J. CUBISS (University of York)
Deformation in gold nuclei beyond the neutron mid-shell

Session 16: At and beyond the dripline and new modes of radioactivity
09:45 – 11:05
Chair: M. Borge

09:45   N. FUKUDA (RIKEN)
Present status of RI-beam production at BigRIPS: Search for new isotopes and nuclear drip lines, and measurement of production cross sections

10:10   M. PFUTZNER (University of Warsaw)
Landscape of Two-Proton Radioactivity

10:35   G. VERDE (INFN Catania)
Exploring in-medium dynamics and structure in nucleus-nucleus collisions

11:00   D. ROSSI (GSI)
Light nuclei at and beyond the neutron dripline

11:25   O. TARASOV (MSU East Lansing)
Exploration of the $^{60}$Ca region

End 11:40

Lunch and departure