

Monday 16th October 2017

SESSION 1 09:00 – 10:30

09:00 Introduction

Chair : F. Hammache (IPN Orsay)

09:10 J. José (Universidad Politecnica de Catalunya – Spain)
Nucleosynthesis in stellar explosions: type Ia supernovae, novae and X-ray bursts

09:35 B. Bastin (GANIL – France)
Stars on the SPIRALs (1 & 2)

10:00 P. Adsley (IPN Orsay – France)
Spectroscopy of F-19 and its impact on the production of N-15 in core-collapse Super Novae.

10:15 A.F. Fantina (GANIL – France)
Cluster distribution in core-collapse supernova

10:30 – 11:00 Coffee break

SESSION 2 11:00 – 13:00

Chair : D. Ackermann (GANIL)

11:00 D. Rudolf (Lund University – Sweden)
Alpha-photon coincidence spectroscopy of superheavy nucle

11 :25 M. Laatiaoui (KU Leuven – Belgium)
Perspectives for laser spectroscopy of the heaviest elements

11 :50 A. Lopez-Martens (CSNSM – France)
Super heavy element studies: Lessons learnt from Dubna and ALTO and plans with S3

12:15 J. Piot (GANIL – France)
System for the Identification of Recoiling Ions using S3

12 :30 L. Le Meur (Subatech – France)
Study of the beta decay properties of exotic nuclei of interest for reactor physics, nuclear structure and nuclear astrophysics, with the Total Absorption Spectroscopy method (TAS)

12:45 M. Ciemala (IFJ PAN – Poland)
First results with PARIS array

13:00 Lunch

SESSION 3
16:00 – 17:50

Chair : B. Borderie (IPN Orsay)

16:00 W. Lynch (MSU – USA)
Probing the EoS of asymmetric matter

16 :25 O. Lopez (LPC Caen– France)
Latest results from INDRA and the new INDRA-FAZIA program at GANIL

16 :50 D. Durand (LPC Caen – France)
ELIE, a phenomenological model for central collisions in the intermediate energy range: comparison with INDRA data

17:05 P. St Onge (GANIL – France)
Influence of neutron enrichment on de-excitation properties of palladium isotopes

17:20 I. Stefan (IPN Orsay – France)
Studies of the production of neutron-rich nuclei towards zero degrees in deep-inelastic collisions

17:35 M-O. Fregeau (GANIL – France)
NFS Neutron beam characterization and monitoring

17:50 – 18:15 Coffee break

New GANIL User Organization
18:15 – 19:45

20:00 Welcome Cocktail

20:30 Dinner

Tuesday 17th October 2017

SESSION 4 08:55 – 10:40

Chair : H. Savajols (GANIL)

08:55 P. Van Duppen (KU Leuven – Belgium)
Recent developments at ISOL-based facilities

09:20 C. Scheidenberger (GSI – Germany)
Recent developments at in-flight facilities

09:45 N. Alahari (GANIL – France)
Xperimenting Xploring Xperiencing down to the Femtoscale at GANIL

10:10 P. Delahaye (GANIL – France)
New beams from the SPIRAL 1 upgrade: status and perspectives

10:35 – 11:00 Coffee break

SESSION 5 11:00 – 13:15

Chair : P. Roussel-Chomaz (CEA Saclay)

11:00 J-C. Thomas (GANIL – France)
The LISE spectrometer at GANIL: present and near future

11:25 A. Lemasson (GANIL – France)
The Vamos spectrometer at GANIL: present and near future

11:50 X. Ledoux (GANIL – France)
The Neutrons for Science Facility At Spiral-2

12:15 A. Drouart (DPHN CEA Saclay – France)
Status of the Super Separator Spectrometer (S3) AT the SPIRAL2 facility

12:40 P. Ascher (CENBG Gradignan – France)
The DESIR facility: status of the project and future physics opportunities

13:15 Lunch

14:30 – 16:15
Discussion on the future at GANIL
moderated by Y. Blumenfeld and S. Grévy

SESSION 6
16:15 – 17:45

Chair : G. Georgiev (CSNSM)

16:15 M. Rejmund (GANIL – France)
Simple views on repetitive patterns near Tin

16:40 H. Heylen (KU Leuven – Belgium)
 β -NMR/NQR measurements at the LISE fragment separator in GANIL: neutron-rich Al isotopes at the border of the island of inversion

17:05 N. Houda (University of Constantine – Algeria)
Shell-model progress in the investigation of nuclei above ^{132}Sn

17:20 A. Gottardo (IPN Orsay – France)
Beta decay studies of N=50 at ALTO: from shape coexistence to GT properties

17:45 – 18:15 Coffee break

18:15 – 19:45

Discussion on EURISOL DF
Presentations by M. Lewitowicz (GANIL) and B. Rubio (IFIC Valencie)

20:30 Dinner

Wednesday 18th October 2017

SESSION 7 09:00 – 10:35

Chair : O. Stezowski (IPN Lyon)

09:00 G. Colo (University of Milano – Italy)

The description of stable and neutron-rich nuclei: correlations within and beyond Density Functional Theory

09:25 E. Clément (GANIL – France)

2017 AGATA campaign at GANIL and future plans

09:50 C. Delafosse (IPN Orsay – France)

First life time measurements in the ^{78}Ni region with AGATA at GANIL

10:05 J. Dudouet (IPN Lyon – France)

Exploring the low Z boundary of the island of deformation at N=60 using AGATA and VAMOS

10:20 AM. Sanchez-Benitez (University of Huelva – Spain)

Borromean nuclei ^6He and ^8He elastic scattering with heavy targets at near-barrier energies

10:35 – 11:00 Coffee break

SESSION 8 11:00 – 12:50

Chair : B. Fornal (IFJ PAN Krakow)

11:00 E. Liénard (LPC Caen – France)

Weak interaction studies at GANIL/SPIRAL(2)

11:25 B. Blank (CENBG Gradignan – France)

Super-allowed Fermi and mirror beta decay to test the weak-interaction standard model

11:40 J. Wilson (IPN Orsay – France)

Highlights of the LICORNE physics program and prospects for future experiments at NFS

12:05 M. Caamano (USC – Spain)

Fission in Inverse Kinematics at GANIL

12:20 D. Regnier (IPN Orsay – France)

Probing the fission dynamics with time-dependent approaches based on the energy density functional framework

12:35 AV. Prokofiev (Uppsala University – Sweden)

How can the emerging NFS facility help fusion?

12:50 Lunch

14:30 Departure of the excursions

18:00 – 20:00 Poster Session

20:30 Dinner

Thursday 19th October 2017

SESSION 9 08:30 – 10:35

Chair : O. Sorlin (GANIL)

08:30 F. Azaiez (iThemba LABS' – South Africa)
SAIF (South African Isotopes Facility) : Moving Forward with iThemba LABS' Long Range Plan

09:00 F. Flavigny (IPN Orsay – France)
Recent results from direct reactions with exotic beams

09:25 F. Delaunay (LPC Caen – France)
Single-particle structure of ^{17}C studied with the $^{16}\text{C}(d,p)$ transfer reaction

09:40 B. Fernandez-Dominguez (University Santiago di Compostella– Spain)
New insights into the evolution of the $N=20$ island of inversion for Mg isotopes

09:55 A. Georgiadou (IPN Orsay – France)
Transfer reactions induced with ^{56}Ni : pairing and $N=28$ shell closure

10:10 L. Gaffney (CERN-ISOLDE - Switzerland)
Exploiting RIBs at HIE-ISOLDE

10:35 – 11:00 Coffee break

SESSION 10 11:00 – 13:00

Chair : M. Kowalska (CERN-ISOLDE)

11:00 K. Johnston (CERN -ISOLDE– Switzerland)
The solid state physics programme at ISOLDE: recent developments and perspectives

11:25 S. Pallada (Wroclaw University of Technology - Poland)
Billion-fold increase in NMR sensitivity and beta-detected NMR studies of metal-ion interaction with biomolecules

11 :40 X. Deschanel (CEA –Marcoule France)
Are mesoporous silica resistant to radiation damage?

12:00 H. Rothard (CIMAP – France)
Cosmic ray effects in astrophysical ices and complex organic molecules

12 :20 S. Balme (Institut Européen des membranes – Montpellier, France)
Track-etched nanopore to mimic biological channels

12:40 M. Moreels (SCK CEN – Belgium)
The impact of different radiation qualities on cancer cells: Carbon ion irradiation experiments at GANIL

13:00 Lunch

14:30 – 15:30
Discussion future GANIL

SESSION 11
16:00 – 17:20

Chair : D. Beaumel (IPN Orsay)

16:00 G. Hupin (IPN Orsay – France)
Towards Unified Approaches to Nuclear Structure and Reactions for Nuclei

16 :25 M. Marques (LPC Caen – France)
The tetra-neutron program at RIKEN

16:50 Q. Deshayes (LPC Caen – France)
Across the neutron drip-line: Study of the heaviest nitrogen isotopes at RIKEN

17:05 A. Revel (GANIL – France)
Neutrons correlations in the continuum of two (core + 4n) systems and p-n interaction at the neutron drip line

17:20 – 17:45 Coffee break

Commemoration of the 20th colloque
17:45 – 19:45

20:30 Conference dinner

Friday 20th October 2017

SESSION 12 09:00 – 10:45

Chair : R. Bougault (LPC Caen)

09:00 J-P. Ebran (CEA – France)
Nuclear Clustering in the Energy Density Functional Approach

09:25 G. Verde (INFN Catania– Italy)
Exploring in-medium dynamics and structure in nucleus-nucleus collisions

09:50 D. Gruyer (LPC Caen – France)
Exploring in-medium structure with particle-particle correlations in heavy-ion collisions.

10:05 D. Dell Aquila (IPN Orsay – France)
alpha particle correlations for studying Nuclear Structure and Dynamics

10:20 T. Marchi (KU Leuven– Belgium)
Reaction dynamics and exotic systems: a focus on fast processes

10:45 – 11:15 Coffee break

SESSION 13 11:15 – 12:10

Chair : J. Giovinazzo (CENBG)

11:15 T. Roger (GANIL – France)
Active Target and Time Projection Chamber (ACTAR TPC)

11:40 T. Goigoux (CENBG Gradignan – France)
Two-proton radioactivity of ^{67}Kr

11:55 S. Leoni (University of Milano – Italy)
Search for the gamma-decay of ^7Li into the continuum by the cold neutron capture reaction $^6\text{Li}(n,\gamma)^7\text{Li}$

Closure

12:30 Lunch