



Monday, September 9, 2019

Opening session (Orangerie AB) 09:00 - 10:35

- 09:00 - 09:15 Welcome
- 09:15 - 10:00 Introduction GANIL-SPIRAL2 / Highlights and future milestones
H. GOUTTE (GANIL)
- 10:00 - 10:35 Fundamental interaction studies with nuclear beta decay
M. GONZALEZ-ALONSO (CERN)

10:35 - 11:05 Coffee break

Reaction mechanism (Orangerie AB) 11:05 - 12:50

- 11:05 - 11:35 Probing nuclear dynamics and thermodynamics : the INDRA-FAZIA coupling in GANIL
D. GRUYER (LPC Caen)
- 11:35 - 11:55 Isospin equilibration in theoretical calculations
K. MAZUREK (IFJ Krakow)
- 11:55 - 12:15 First advanced isospin studies with the FAZIA detector
A. CAMAIANI (INFN Firenze)
- 12:15 - 12:35 Evolution of the production of clusters with fragmentation degree
E. BONNET (SUBATECH)
- 12:35 - 12:50 A study of γ -decay of the collective states in ^{208}Pb excited in (p,p') reaction at the CCB facility
B. WASILEWSKA (IFJ Krakow)

13:00 - 16:00 Lunch (Orangerie CDE)



15:30 - 16:00 Coffee break

GUEC Session (Orangerie AB)

16:00 - 18:30

- 16:00 - 16:20 GUEC – status and first actions
A. MAJ (IFJ PAN Krakow)
- 16:20 - 16:45 Challenges in theory in connection to Ganil experiments
M. COLONNA (LNS Catania)
- 16:45 - 17:10 Traveling detectors : Status & projects at GANIL
M. ASSIE (IPN Orsay)
- 17:10 - 17:35 Ganil Local Instruments : Status and perspectives
A. LEMASSON (GANIL)
- 17:35 - 18:00 Overview and prospects of Interdisciplinary researches with GANIL ion beams
I. MONNET (CIMAP)
- 18:00 - 18:05 Decision of the GANIL Award Committee and the word by GANIL Director
A. GOERGEN, N. ALAHARI
- 18:05 - 18:30 talk on the awarded PhD work - GANIL AWARD WINNER

19:00 - 20:00 Welcome Cocktail



Tuesday, September 10, 2019

Applications (Orangerie AB)

09:00 - 10:30

- 09:00 - 09:30 Isotope production for medical applications: what can be done?
F. HADDAD (ARRONAX)
- 09:30 - 10:00 ¹²C fragmentation measurements for hadrontherapy
M. LABALME (LPC Caen)
- 10:00 - 10:30 Understanding Swift Heavy Ion Interactions with Group-III Nitrides
M. SEQUEIRA (CTN-IST Lisbon)

10:30 - 11:00 *Coffee break*

Light nuclei and weakly bound systems (Orangerie AB)

11:00 - 12:50

- 11:00 - 11:30 Why light nuclei hold the key to understanding correlations
M. FREER (University of Birmingham)
- 11:30 - 11:50 Experiment E676@GANIL : lifetime measurements of excited states in neutron-rich C and O isotopes as a test of the three-body forces
M. CIEMALA (IFJ Krakow)
- 11:50 - 12:05 Above barrier narrow resonances in the unbound nucleus of fluorine 15
V. GIRARD-ALCINDOR (GANIL)
- 12:05 - 12:20 Spherical, cluster and halo states in ¹²Be
A. KAMENYERO (GANIL)
- 12:20 - 12:35 High-Order Bogoliubov Many-Body Perturbation Theory
M. FROSINI (CEA Saclay)
- 12:35 - 12:50 ³⁶Ca : Broken mirror and two protons decay
L. LALANNE (IPN Orsay)

13:00 - 16:00 *Lunch (Orangerie CDE)*



GUEC Meeting (Orangerie AB)
14:00 - 16:00

15:30 - 16:00 Coffee break

Shell evolution (Orangerie AB)
16:00 - 18:35

- 16:00 - 16:30 Recent experimental studies of shell evolution in exotic nuclei
A. GADE (MSU)
- 16:30 - 16:50 Spectroscopy of isotopically identified neutron-rich Pm isotopes
S. BHATTACHARAYA (VECC Kolkata)
- 16:50 - 17:10 Theory behind Recently Discovered Tetrahedral and Octahedral Symmetries in Atomic Nuclei, Experimental Evidence
J. DUDEK (IPHC Strasbourg)
- 17:10 - 17:30 Shell evolution of neutron-deficient Xe isotopes and Octupole Correlations above 100Sn: Status of the Analysis of the experiment performed with the NEDA+NW+AGATA+DIAMANT set-up
M. JURADO GOMEZ (IFIC Valencia)
- 17:30 - 17:50 Perspective with the SPIRAL 1 new beams for upcoming physics campaigns
P. DELAHAYE (GANIL)
- 17:50 - 18:05 Shape evolution in exotic neutron-rich around mass 100
S. ANSARI (CEA Saclay)



Wednesday, September 11, 2019

Applications (Orangerie AB)

08:45 - 10:20

- 08:45 - 09:15 Nuclear reactions studies for improved nuclear data for science and technology
S. POMP (UPPSALA)
- 09:15 - 09:45 Recent development of the FALSTAFF spectrometer in view of fission studies at NFS
E. BERTHOUMIEUX (CEA Saclay)
- 09:45 - 10:05 (n,xn gamma) measurements : interests and prospects at the Neutrons For Science facility at Ganil
G. HENNING (IPHC)
- 10:05 - 10:20 Searching for isoscalar monopole resonances in neutron rich ^{68}Ni with ACTAR TPC
A.A AROKIARAJ (KU Leuven)

10:20 - 10:50 *Coffee break*

Shell evolution (Orangerie AB)

10:50 - 12:30

- 10:50 - 11:20 Isospin dependence of NN correlations and quenching of spectroscopic factors
A. MACCHIAVELLI (LBL Berkeley)
- 11:20 - 11:40 Shape coexistence in the ^{78}Ni region : additional evidence from lifetime measurements in light $N=51$ isotones with AGATA@VAMOS
D. VERNEY (IPN Orsay)
- 11:40 - 12:00 Persisting spherical vibrator structure in the Cd isotopes from a symmetry based perspective
A. LEVIATAN (Racah Institute of Physics)
- 12:00 - 12:15 Evolution of nuclear structure along the As isotopic chain
K. REZYNKINA (IPHC)
- 12:15 - 12:30 Neutron seniority and angular momentum mixing in neutron-rich $^{122-131}\text{Sb}$ isotopes
S. BISWAS (GANIL)

12:45 - 13:45 *Lunch (Orangerie CDE)*

- 13:45 - 19:00 15:00 - 16h30 : HK Castle,
17:00 - 18:30 : Klipfel Cellar
19:00 Return to Hilton

19:00 - 21:00 Poster session



Thursday, September 12, 2019

Reaction mechanism (Orangerie AB)

09:00 - 10:40

- 09:00 - 09:30 Insights into fission through accurate measurements of fragment properties
C. SCHMITT (IPHC)
- 09:30 - 10:00 How the octupole structure determine the fission asymmetry
G. SCAMPS (ULB Brussels)
- 10:00 - 10:20 First direct measurement of isotopic fission yields of ²³⁹U
D. RAMOS (GANIL)
- 10:20 - 10:40 Multi-Neutron transfer in Coulomb barrier reactions of the halo nuclei ^{6,8}He
I. MARTEL (Universidad de Huelva)

10:40 - 11:10 Coffee break

Fundamental interactions (Orangerie AB)

11:10 - 12:45

- 11:10 - 11:30 Status of the SPIRAL2-DESIR project
JC THOMAS (GANIL)
- 11:30 - 11:50 Taming nuclear complexity using neural networks
RD LASSERI (ESNT Saclay)
- 11:50 - 12:10 Search for CP violation in nuclear beta decays : the MORA project
E. LIENARD (LPC Caen)
- 12:10 - 12:30 WISArD : Weak Interaction Studies in ³²Ar Decay
X. FLECHARD (LPC Caen)
- 12:30 - 12:45 Latest advances in the measurements of β - ν correlation coefficients in nuclear β decays using LPCTrap
R. COMBE (LPC Caen)

12:45 - 15:30 Lunch (Orangerie CDE)



15:30 - 16:00 *Coffee break*

Superheavy Nuclei (Orangerie AB)

16:00 - 18:00

- 16:00 - 16:30 Spectroscopy of heavy elements measured with GABRIELA at the FLNR, Dubna
K. HAUSCHILD (CSNSM)
- 16:30 - 16:50 Extra stable high-K states in heaviest nuclei
M. KOWAL (WARSAW)
- 16:50 - 17:10 High intensity metallic ion beams for superheavy elements synthesis and studies
B. GALL (IPHC)
- 17:10 - 17:30 Status and perspective of the S3 Low-Energy Branch at SPIRAL2-GANIL
N. LECESNE (GANIL)
- 17:30 - 17:45 Evidence of isomers in $^{255,256}\text{No}$ with SHELS
K. KESSACI (IPHC)
- 17:45 - 18:00 New focal plane detector system for decay spectroscopy studies at S3
Z. FAVIER (CEA Saclay)

19:30 - 22:00 *Conference Dinner in Maison Kammerzel*



Friday, September 13, 2019

Nuclear Astrophysics (Orangerie AB)

09:00 - 10:55

- 09:00 - 09:30 The critical role of nuclear physics in interpreting astrophysical observations
A. LAIRD (University of York)
- 09:30 - 10:00 The r-Process in Neutron Star Mergers and Core-Collapse Supernovae
L. ROBERTS (MSU)
- 10:00 - 10:20 Sensitivity of Giant Resonances Energies of Nuclei to Properties of Nuclear Matter
S. SHLOMO (Texas AM)
- 10:20 - 10:40 Measurement of light charged particle Equilibrium constants using heavy-ion reactions
R. BOUGAULT (LPC Caen)
- 10:40 - 10:55 Determination of Photoneutron Cross Sections for ¹⁶⁵Ho Using Direct Neutron-Multiplicity Sorting
M. KRZYSIEK (IFIN-HH Bucharest)

10:55 - 11:20 Coffee break

N=Z nuclei (Orangerie AB)

11:20 - 13:00

- 11:20 - 11:50 Nuclear structure along the N~Z line
G. DE FRANCE (GANIL)
- 11:50 - 12:10 The Super Separator Spectrometer (S3) for the very high intensity beams of SPIRAL2
H. SAVAJOLS (GANIL)
- 12:10 - 12:30 Nuclear moment studies of short-lived excited states of radioactive ions. TDRIV on ²⁸Mg from HIE-ISOLDE
G. GEORGIEV (CSNSM Orsay)
- 12:30 - 13:00 Concluding remarks
S. GREVY (CENBG)

13:00 - 14:30 Lunch and departure (Orangerie CDE)