

SCIENTIFIC PROGRAMME

Monday 7th September 2009

8:30 – Opening address

Nuclear Reaction Mechanisms

8 :50 – 12 :55

Maria Colonna – INFN Catania, Italy (30+10)

Nuclear reactions with neutron-rich systems, from Coulomb to Fermi Energies

Roland Dayras-IRFU/SPhN Saclay, France (20+5)

Fission times of compound nuclei from $Z=114$ to $Z=124$: probing the stability of super-heavy elements

Kouhei Washiyama-GANIL Caen, France (15+5)

Dissipation, extraction of excitation energy and mass fluctuation in fusion and transfer reactions

10 :15 – 10 :45 Coffee break

Christelle Stodel – GANIL Caen, France (15+5)

SHE production with symmetric fusion reactions

Antoine Lemasson – GANIL Caen, France (15+5)

Interplay between structure and reaction mechanisms around the Coulomb barrier probed using ^8He

Paola Marini (15+5)

Exploring the level density parameter with the isospin effects

Abdu Chbihi – GANIL Caen, France (15+5)

Exploring the symmetry energy with isospin effects in heavy-ion collisions

Takuya Furuta – LPC Caen, France (20+5)

Equilibrium in Multifragmentation

Rémi Bougault – LPC Caen, France (20+5)

Dynamical and Thermodynamical aspects of Heavy-Ion collisions

13 :00 Lunch

Nuclear Structure with Direct Reactions

16 :00 – 19 :20

Didier Beaumel – IPN Orsay – France (30+10)

Direct reactions with radioactive beams: recent results

Jeffrey Tostevin - Univ. Surrey, U. K. (20+5)

Direct reactions methods for one- and two-particle spectroscopy

Nick Ashwood - Univ. Birmingham, U. K. (20+5)

Thick Target Resonance Scattering: A Probe for Cluster Structure

17 :30 – 18 :00 Coffee break

Hironori Iwasaki – IKP University of Cologne, Germany) (15+5)

Missing-mass spectroscopy of the unbound nucleus ^{12}O and the breakdown of the $Z=8$ shell closure

Thomas Roger – GANIL Caen, France (15+5)

Study of reactions induced by a low energy ^{11}Li beam with the MAYA active target.

Elias Khan – IPN Orsay, France (15+5)

Measurement of GMR in unstable nuclei and the isospin dependence of the nuclear matter incompressibility

Laurent Audirac –CENBG Bordeaux Gradignan, France (15+5)

Study of two-proton radioactivity with a Time Projection Chamber (TPC)

19 :20 Welcome Cocktail

20h30 Dinner

Tuesday 8th September 2009

Interdisciplinary Research

8 :50 – 11 :55

Jean Colin – LPC Caen, France (30+10)

Beam control and dosimetry in hadrontherapy

Jean-Christophe Nappé - CEA Cadarache, France (25+5)

Investigation of irradiation effects on Ti_3SiC_2

Xavier Flécharde – LPC Caen, France (20+5)

Recent results with the LPC Trap facility

10 :25 -10 :55 Coffee break

Michael Capron – CIMAP Caen, France (15+5)

Ion Induced Fragmentation of Biomolecular Systems at Low Energy

Eric Giglio – CIMAP Caen, France (15+5)

Rayleigh Instabilities of Micro-Droplets

Dominique Vernhet - Institut des NanoSciences de Paris, France (15+5)

Towards improvement of ETACHA for S3 stripping

Nuclear Structure with Gamma Spectroscopy

11 :55 – 12 :55

Peter Butler – University of Liverpool – U. K. (30+10)

Recent REX-ISOLDE results and HIE-ISOLDE

Magda Zielinska – HIL Warsaw, Poland (15+5)

Coulomb excitation of neutron-rich ^{44}Ar at SPIRAL

13 :00 Lunch

14h00 – 15h45 Extra session :

Long Range Plan of the community at GANIL

Discussion coordinated by

Faycal Azaiez and Marek Lewitowicz

Recent Developments for the Future of GANIL

16 :00- 19 :35

David Verney – IPN Orsay – France (20+5)

ALTO : status and physics highlights

Enrico Farnea – INFN Padova, Italy (20+5)

Status of the AGATA Demonstrator Array

Luigi Bardelli – INFN Florence, Italy (20+5)

First experimental results from the FAZIA R&D program: detector characterization and digital PSA

Christelle Schmitt – GANIL Caen, France (15+5)

VAMOS: A new gas filled separator

17 :35 – 18 :05 Coffee break

Pierre Delahaye – GANIL Caen, France (15+5)

Heavy targets for SPIRAL 1

Tina Gottwald – University of Mainz – Germany (15+5)

A Solid State Laser Ion Source for Spiral 2

Teresa Kurtukian-Nieto – CENBG Bordeaux Gradignan, France (15+5)

High resolution mass separator for the DESIR facility at SPIRAL2

Florian Duval – LPC Caen, France (15+5)

SHIRaC : The Spiral2 High Intensity Radiofrequency Cooler for DESIR Facility

20 :30 Dinner

Wednesday 9 September 2009

Nuclear Structure with Gamma Spectroscopy

8 :50 -12 :55

Paul-Henri Heenen – Université Libre de Bruxelles, Belgium (30+10)

Success and problems of beyond mean-field studies of exotic nuclei

Olivier Dorvaux – IPHC Strasbourg, France (20+5)

Electron spectroscopy of $Z\sim 100$ elements at Dubna

Jerzy Dudek - IPHC/DRS and Université de Strasbourg, France (15+5)

New Generation of Mean-Filed Hamiltonians: Results Compared with Experiment

Kamila Sieja – GSI Darmstadt, Germany (15+5)

New Island of Inversion around $N=40$

10 :35 – 11 :05 Coffee break

Frédéric Nowacki – IPHC Strasbourg, France (25+5)

Shell evolution far from stability

Sophie Peru-Desenfans – CEA DAM DIF Bruyères le Châtel, France (15+5)

QRPA calculations for deformed nuclei with the Gogny force

Lucia Caceres – GANIL Caen, France (15+5)

Erosion of the $N=28$ shell closure and onset of collectivity in the 44S nucleus

Stéphane Hilaire - CEA DAM DIF Bruyères le Châtel, France (15+5)

News from the Gogny interaction

Beatriz Fernandez-Dominguez - GANIL Caen, France (15+5)

Structure around the island of inversion with single-neutron knockout reactions at GANIL

12 55 Lunch

free afternoon

14:00 Departure of the Excursion

18:00 Short presentations of posters

**Poster Session
Cocktail
18:30 - 19:45**

20 :00 Dinner

Thursday 10th September 2009

**Nuclear Structure with Gamma Spectroscopy
8 :50 – 10 :30**

Bogdan Fornal – IFJ PAN, Krakow, Poland (25+5)

Yrast structure near doubly closed neutron-rich nuclei from deep-inelastic and fission reactions

Navin Alahari – GANIL Caen, France (20+5)

(A part of) Yesterday, Today and Tomorrow @VAMOS

Joa Ljungvall - GANIL Caen, France (20+5)

Lifetime measurements of excited states in Neutron-rich Irons

Aradhana Shrivastava – GANIL Caen, France (15+5)

Prompt gamma -spectroscopy of isotopically identified fission fragments

10 :30 – 11 :00 Coffee break

**Nuclear Moments
11:00 – 12:55**

Ikuko Hamamoto – Lund University, Sweden (30+10)

One-particle motion in deformed mean field and magnetic moments of nuclei towards neutron drip line

Georgi Georgiev – CSNSM Orsay, France (25+5)

Nuclear moments of sub-ns and isomeric states in projectile fragmentation. Recent results and perspectives

Jean-Michel Daugas – CEA DAM DIF Bruyères le Châtel, France (20+5)

Magnetic moment of $^{43\text{m}}\text{S}$ - evidence of shape coexistence

Gerda Neyens – IKS Leuven – Belgium (15+5)

Magnetic and quadrupole moments of exotic ground states near N=20 and N=28

13 :00 Lunch

**Nuclear Astrophysics
16 :00 – 19 :10**

Pierre Descouvemont – Université Libre de Bruxelles, Belgium (20+5)

New states in the $^{18}\text{F}(p,\alpha)^{15}\text{O}$ reaction from a microscopic model

Sotirios Harissopulos – NCSR Athens, Greece (20+5)

Capture reactions in inverse kinematics: p-process nucleosynthesis studies at GANIL

Alison Laird – University of York, UK (20+5)

Direct measurements of nuclear astrophysics reactions

17 :15 – 17 :45 Coffee break

François de Oliveira – GANIL Caen, France (20+5)

Unbound nuclei: fascinating objects

Matthew Amthor – GANIL Caen, France (15+5)

Indirect rp-Process Rate Measurements

Florence de Grancey – GANIL Caen, France (15+5)

A narrow destructive resonance in ^{15}F

Marlène Assié – GANIL Caen, France (15+5)

Spectroscopy of ^{18}Na

20 :00 Conference dinner

Friday 11th September 2009

Open session of the Scientific Advisory Committee of SPIRAL2.

8 :50 – 12 :00

12 :00 Lunch

End of the meeting

Closed session of the Scientific Advisory Committee of SPIRAL2.

14 :00 – 16 :00