



Dear Colleague,

Please find enclosed the final program of the "Colloque GANIL" which will be held in Giens (France) from September 6th to 11th, 2009.

In order to preserve the informal character of the colloquium and to stimulate presentation of controversial ideas, no proceedings will be published.

REGISTRATION DESK

Participants will be welcome in the afternoon of Sunday 6th, September from 5:00 pm. to 8:00 pm and during conference hours starting at 8:30 on the following days.

In case registration fees are not credited on time to the congress 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.

SCIENTIFIC PROGRAMME

The workshop will begin on Monday September 7th at 8:30 am and will be closed on Friday September 11th at noon.

The programme will consist in review talks, invited talks, contributed talks and poster presentations.

To favour informal exchanges in a relaxed atmosphere, and to allow the organization of collaboration or other meetings, the afternoons will be free of talks up to 16:00.

Both electronic beamer for laptop-based presentations (recommended) and overhead projectors will be available to the speakers. Speakers are requested to bring their contribution in a common format (such as Powerpoint or PDF) on an electronic medium (CD, USB pen-drive, memory stick, etc...) to be downloaded during your registration on Sunday.

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 ^{43m}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 $^{18}\text{F}(p,a)^{15}\text{O}$ 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

POSTER SESSION

In view of the large number of contributions, a poster session will be organised on **Wednesday 9th at 6:00 pm** to allow a complete discussion of the research programmes performed at GANIL in recent years. An introductory session will allow the poster authors to give a short presentation of their work, within a strictly limited time of 2 minutes and 2 transparencies per poster. Speakers are requested to bring their contribution in a common format (such as Powerpoint or PDF) on an electronic medium (CD, USB pen-drive, memory stick, etc...) **to be downloaded during your registration on Sunday.**

Posters may be presented in A0 format. They will be visible from Monday to Thursday. They can be pinned to the panels on Sunday evening at your arrival.

HOW TO REACH THE VVF

The resort village is 865 kms for Paris and 25 kms from Toulon.

- SHUTTLES

No transportation will be organized except the following ones :

1) From Toulon airport

Your transport to the colloquium site is organized by bus at the arrival of the following flights from Paris :

AF7506 : 13:30 – 14:50

AF7502 : 16:05 – 17:25

There is no direct bus connection between Toulon/Hyères airport and the colloquium site. For information a taxi fare is about 35 €. It will take 20mn.

2) From Hyères train station

Your transport to the colloquium site is organized by bus at the arrival of the following trains from Paris :

11:46 – 17:36

14:16 – 19:31

The driver will have a sign "COLLOQUE GANIL 2009".

FROM MARSEILLE AIRPORT

Arriving in Marseille airport, you will have to reach Marseille St Charles train station in order to take a train to Hères train station.

Bus Marseille Airport <> Train Station Saint-Charles : Travelling time : 25 mn . Direct via motorway

- * From 6 :10 am to 10 :50 pm every 20 minutes
- * After 10 :50 pm : departure according to scheduled arrival flights
- * One way price : 8.50 Euros

For information, a taxi fare from the airport or the Hyères train station to the VVF is 25 Euros ; from the Toulon train station, it is 50 Euros.

BY CAR

Coming from Paris, take the A57 motorway. After Aix en Provence, follow the direction of Nice exit at Brignolles and take Hyères, direction « Les Îles » then « Presqu'île de Giens ». The VVF is near « La Tour fondue ».

GENERAL INFORMATION

The address of the Belambra village is

Club Belambra
Presqu'île de Giens
83408 HYERES LES PALMIERS cedex
Phone 33 (0)4 94 58 21 51
Fax 33 (0)4 94 58 96 38

Secretary of the colloquium
Phone +33 (0)6 08 87 26 28

There is no possibility to withdraw money from the VVF. Please foresee before your arrival.

Breakfast will be served every day from 7:00 to 9:00 am.

Coffee-breaks are planned in the Fernandel square, outside the conference room.

- A welcome cocktail is planned on Monday 7th at 7:00 pm on the bar terrace
- A poster cocktail is planned on Wednesday 9th at 6:30 pm
- The conference dinner is planned on Thursday 10th at 8:30 pm

Lunch tickets will be supplied in the registration package for participants and registered companions.

The resort village has an exceptional setting in a pine grove, a stone's throw from the sea and the island of Porquerolles in front of you. It bears the « discovery of birds » label.

There are 5 tennis courts, a base for water sports : waterskiing, windsurfing, canoeing, scuba-diving (with extra-charges) a volley-ball court, boules, crazy golf. At this time of the year, the average air temperature is 27/28°C, average water temperature is 18/20°C.

Don't forget tennis rackets, bathing costumes and musical instruments to liven up evenings !

INTERNET

Several computers will be available for the participants to send and receive their e.mail.

If you bring your own laptop, an access code for wifi will be given to you at your arrival at the VVF

EXCURSION

A tour will take place on free Wednesday afternoon from 2:00pm to 6:00 pm

Tickets will be supplied in the registration package for participants and registered companions. They will be required at the departure of the bus.

Vineyards and soil (in ½ day)

Departure towards La Farlède and visit of a oil mill: olive oil, « tapenade » (olive and anchovy purée, speciality of Provence) and « anchoiade » (anchovy purée, speciality of Provence) production.

Visit of the old mill and of the modern mill, discovery of product fabrication, outside visit of the paddle wheel and the olive grove. Tasting of the oils, « tapenade » and « anchoiade ».

Visit of a castle and a wine cellar « Côte de Provence » followed by a wine tasting.

DEPARTURE

The conference will end on Friday 11th September. A transfer service to the Airport and the Hyères Railway Station will be provided.

Information will be given during the colloquium.

Looking forward to seeing you in Giens.

The Organizing Committee