

	Monday 27/09/21		Tuesday 28/09/21		Wednesday 29/09/21		Thursday 30/09/21		Friday 01/10/21		
08h00											
09h00	Welcome & Highlight IP2I Directorate - GANIL Directorate 8:45 - 9:30		Fission Dynamics M. CAAMANO - D. LACROIX 8:30 - 10:30		Nuclear Structure 4 W. KORTEN - P. BEDNARCZYK 8:30 - 10:15		Nuclear dynamics and thermodynamics R. BOUGAULT - S. PIANTELLI 8:30 - 10:30		Fundamental Interactions 9:00 - 10:15		
	Neutrons for Science A. JUNGHANS 9:30 - 10:30										
10h00	10:30 - 11:00	Coffee break	10:30 - 11:00	Coffee break	10:15 - 10:45	Coffee break	10:30 - 11:00	Coffee break	10:15 - 11:00	Coffee break	
11h00	Nuclear structure H. SAVAJOIS 11:00 - 12:30		Nuclear Structure 3 S. GREVY 11:00 - 12:30		Nuclear Structure 5 F. NOWACKI - S. PERU 10:45 - 12:15		Interdisciplinary research I. MONNET - C. GRYGIEL 11:00 - 12:30		11:00 - 11:15	Prizes	
12h00									11:15 - 11:40 Thesis Award		
13h00	12:30 - 14:30	Lunch	12:30 - 14:30	Lunch	12:15 - 14:30		12:30 - 14:30	Lunch	11:40 - 12:00	Conclusions	
14h00	Nuclear Structure 2 M. BENDER 14:30 - 16:00		Nuclear Astrophysics F. DE OLIVEIRA 14:30 - 16:00				Applications G. DE FRANCE 14:30 - 15:30		12:00 - 13:45		
15h00											
16h00	16:00 - 16:30	Coffee break	16:00 - 16:30	Coffee break	EXCURSION		Nuclear Structure 6 G. DE FRANCE 15:30 - 16:15		Departure 13:45		
17h00	Ganil Users Session H. GOUTTE 16:30 - 18:30		Poster session J. DUDOUET 16:30 - 18:30				16:15 - 16:45				Coffee break
18h00							Nuclear Structure 7 W. CATFORD 16:45 - 18:30				
	End 18:30		End 18:30								
19h00	19:00 Welcome cocktail		19:00 cocktail								
20h00	Dinner		Dinner		Dinner		20:00 Conference dinner				

Monday, September 27th, 2021

Welcome & Highlight IP2I Directorate - GANIL Directorate

08:45 - 09:30

Neutrons For Science

09:30 - 10:30

Chair: A. JUNGHANS

09:30 - 10:00 [Neutrons For Science](#)

25'+5' **Xavier LEDOUX**, Grand Accélérateur National d'Ions Lourds

10:00 - 10:30 [\(n,xn g\) cross section measurements at NFS and nuclear structure needs for nuclear energy applications](#)

25'+5' **Maëlle KERVENO (R)**, Institute Pluridisciplinaire Hubert Curien

10:30 - 11:00 *Coffee break*

Nuclear Structure 1

11:00 - 12:30

Chair: H. SAVAJOIS

11:00 - 11:30 [Status of the S3 and DESIR experimental installations](#)

25'+5' **Vladimir MANEA**, GANIL, Laboratoire de Physique des 2 Infinis Irène Joliot-Curie

11:30 - 11:45 [A detection setup for Spectroscopy and Identification of Rare Isotopes Using S3](#)

12'+3' **Rikel CHAKMA**, Grand Accélérateur National d'Ions Lourds

 11:45 - 12:00 [Development of Ti:Sa based laser ion sources for S3-Low Energy Branch \(S3-LEB\) at SPIRAL2-GANIL](#)

12'+3' **Jekabs ROMANS**, Department of Physics and Astronomy IKS/QSP, KU Leuven

 12:00 - 12:15 [Towards superheavy elements: synthesis of heavy nuclei in multinucleon transfer reactions and characterization and development of the new focal plane detection system SIRIUS](#)

12'+3' **Zoé FAVIER**, CEA-Saclay

12:15 - 14:30 *Lunch*

Nuclear Structure 2
14:30 - 16:00

Chairs: M. BENDER - B. WADSWORTH (Remote)

14:30 - 15:00 [Search for isoscalar pair correlations at the far end of the N=Z line using high-resolution gamma-ray spectroscopy at GANIL](#)

25'+5' **Bo CEDERWALL (R)**, Department of Physics, KTH Royal Institute of Technology

15:00 - 15:30 [Theoretical and experimental challenges in isospin symmetry breaking studies](#)

25'+5' **Silvia M. LENZI (R)**, University of Padova and INFN



15:30 - 15:45 [New results on the decay spectroscopy of \$^{254}\text{No}\$ with GABRIELA@SHELS](#)

12'+3' **Margaux FORGE**, Institut Pluridisciplinaire Hubert Curien



15:45 - 16:00 [Evidence of isomers in \$^{255,256}\text{No}\$ with SHELS](#)

12'+3' **Kieran KESSACI (R)**, Institut Pluridisciplinaire Hubert Curien

16:00 - 16:30 Coffee break

Ganil Users Session
16:30 - 18:30

Chair: H. GOUTTE

16:30 - 16:45 Report on GUEC activities - S. LEONI

16:45 - 17:00 Discussion on the Future of the G3 cave - I. MONNET

17:00 - 17:15 Status of S3 - H. SAVAJOLES

17:15 - 17:30 Status of DESIR – F. VARENNE

17:30 - 18:30 Open discussion and questions from Users – Round table.

19:00 - 20:00 Welcome Cocktail

20:00 - 22:00 Dinner

Fission Dynamics

08:30 - 10:30

Chairs : M. CAAMANO - D. LACROIX

08:30 - 09:00 [Theory of nuclear fission: present and perspectives](#)

25'+5' **David REGNIER**, DAM Île-de-France

09:00 - 09:30 [Fission studies at GANIL: Exploiting the inverse-kinematics surrogate and the direct neutron-induced techniques](#)

25'+5' **Diego RAMOS**, Grand Accélérateur National d'Ions Lourds

09:30 - 09:45 [Indirect measurements of neutron-induced reaction cross-sections at storage rings](#)

12'+3' **Beatriz JURADO**, Centre d'Études Nucléaires de Bordeaux Gradignan

 09:45 - 10:00 [Investigation of Fission modes in ¹⁷⁶Os, ¹⁷⁷Ir and ¹⁷⁹Au](#)

12'+3' **Deby Treasa K. M.**, Centre d'Études Nucléaires de Bordeaux Gradignan

 10:00 - 10:15 [Preliminary results on Z-, N- fission-yields in inverse kinematics at VAMOS++](#)

12'+3' **Daniel FERNANDEZ**, Facultad de Fisica, Universidade de Santiago de Compostela

 10:15 - 10:30 [Investigation of the response of solar cells to heavy ions at energies close to 10 A MeV](#)

12'+3' **Michele SGUAZZIN**, Centre d'Études Nucléaires de Bordeaux Gradignan

10:30 - 11:00 *Coffee break*

Nuclear Structure 3

11:00 - 12:30

Chair: S. GREVY

11:00 - 11:30 [Scientific opportunities at S3 and DESIR in the context of ground-state nuclear structure](#)

25'+5' **Iain MOORE (R)**, University of Jyväskylä

11:30 - 11:45 [Commissioning and recent achievements of ion beam purification devices under development at CENBG in the framework of DESIR/SPIRAL2](#)

12'+3' **Antoine DE ROUBIN (R)**, Centre d'Études Nucléaires de Bordeaux Gradignan

 11:45 - 12:00 [Precision mass measurements of neutron-rich refractory nuclei at JYFLTRAP](#)

12'+3' **Marjut HUKKANEN (R)**, Centre d'Études Nucléaires de Bordeaux Gradignan, Univ. of Jyväskylä

12:00 - 12:15 [Beta-delayed neutron emission from photo-fission fragments produced at ALTO: outlook of the experimental program at TETRA](#)

12'+3' **Dmitry TESTOV (R)**, Joint Institute for Nuclear Research

 12:15 - 12:30 [Production and decay spectroscopy of neutron-deficient actinides at IGISOL using ²³²Th\(p,X\)Y reaction](#)

12'+3' **Emmanuel REY-HERME**, CEA Paris Saclay

12:30 - 14:30 *Lunch*

Nuclear Astrophysics

(R) : Remote presentation

 : PhD student

Chair: F. DE OLIVEIRA

14:30 - 15:00 [Nucleosynthesis: new perspectives from gamma-ray astronomy](#)
 25'+5' **Vincent TATISCHEFF**, Laboratoire de Physique des 2 Infinis Irène Joliot-Curie

 15:00 - 15:15 [Experimental Study of the \$^{30}\text{Si}\(p,\gamma\)^{31}\text{P}\$ via the \$^{30}\text{Si}\(3\text{He},d\)^{31}\text{P}\$ transfer reaction for understanding elemental anomalies in Globular Clusters.](#)

12'+3' **Djamila-Sarah HARROUZ**, Laboratoire de Physique des 2 Infinis Irène Joliot-Curie

15:15 - 15:30 [The nuclear matter density functional under the nucleonic hypothesis](#)

12'+3' **Chiranjib MONDAL**, Laboratoire de Physique Corpusculaire de Caen

 15:30 - 15:45 [Understanding \$^{22}\text{Na}\$ cosmic abundance by measuring lifetimes in \$^{23}\text{Mg}\$](#)

12'+3' **Chloé FOUGÈRES**, Grand Accélérateur National d'Ions Lourds

 15:45 - 16:00 [Oxygen-15 alpha capture measurements for neutron stars in binary systems through alpha transfer on the SPIRAL-1 \$^{15}\text{O}\$ RIB](#)

12'+3' **Jennifer SANCHEZ ROJO (R)**, University of York

16:00 - 16:30 *Coffee break*

Chair: J. DUDOUET

-  Which effective interaction to study Giant Monopole Resonance ?
Batail Lysandra, CEA, DAM, DIF, Arpajon, France
-  TAGS Measurement of the 99Zr
Beloeuvre Arthur, Subatech (CNRS/IN2P3), IMT Atlantique, Université de Nantes, France
-  Improvement of the FEBIAD ion source at SPIRAL1
Bosquet Vincent, Grand Accélérateur National d'Ions Lourds, France
- Fusion probability as a function of bombarding energy and angular momentum in reactions leading to the formation of superheavy nuclei
Cap Tomasz, National Centre for Nuclear Research, Poland
-  Shapes of heavy and super-heavy atomic nuclei with Skyrme Energy Density Functionals
Da Costa Philippe, Institut de Physique des 2 Infinis de Lyon, France
-  TULIP - Target Ion Sources for Short-Lived Ion Production Alkali Production using Fusion-Evaporation Reactions
Dong Wenling, Laboratoire de physique des 2 infinis - Irène Joliot-Curie, Orsay, France
- Experiment study of the symmetry energy from $40,48\text{Ca}+40,48\text{Ca}$ reactions at 35 AmV
Fable Quentin, Laboratoire des 2 Infinis, Toulouse, France
- First mass separation and characterisation of the double Penning trap PIPERADE
Flayol Mathieu, Centre d'Études Nucléaires de Bordeaux Gradignan, France
-  Detection of beta decay in laser oriented trapped radioactive isotopes for the MORA project
Goyal Nishu, Grand Accélérateur National d'Ions Lourds, France
- ToolKit for Nuclei : an open source interface to nuclear databases
Gruyer Diego, Laboratoire de Physique Corpusculaire de Caen, France
-  New electronics and data acquisition system for the INDRA multi-detector
Lemarié Julien, Grand Accélérateur National d'Ions Lourds, France
-  Low energy excitations : pairing, cluster and soft modes
Mercier Florian, Laboratoire de physique des 2 infinis - Irène Joliot-Curie, Orsay, France
- The DESIR High Resolution Separator
Michaud Julien, Centre d'Études Nucléaires de Bordeaux Gradignan, France
-  Ab-initio description of the monopole resonance in light- and medium-mass nuclei
Porro Andrea, IRFU, CEA, Université Paris-Saclay, France
-  Silver production with RIALTO
Segovia Miranda Anahi, Laboratoire de physique des 2 infinis - Irène Joliot-Curie, Orsay, France
- Shell evolution and structure of two-neutron halo in light exotic nuclei
Suzuki Toshio, Nihon University, Japan

19:00 - 20:00 Cocktail

20:00 - 22:00 Dinner

(R) : Remote presentation

 : PhD student

Nuclear Structure 4

08:30 - 10:15

Chairs: W. KORTEN - P. BEDNARCZYK

- 08:30 - 09:00 [Precision gamma-ray spectroscopy of neutron-rich C, N and O isotopes as a test-bench of nuclear structure theory](#)
- 25'+5' **Silvia LEONI**, Sezione di Fisica del Nucleo, Dipartimento di Fisica, Universita' degli Studi di Milano, Italy, INFN, sez. Milano
- 09:00 - 09:30 [Study of single particle and shape evolution in neutron-rich nuclei produced in fusion-fission reactions using AGATA coupled to VAMOS++ and other devices](#)
- 25'+5' **Gilbert DUCHENE**, Institut Pluridisciplinaire Hubert Curien
-  09:30 - 09:45 [Lifetime measurements of \$2^+_{2-}\$ and \$3^+_{1-}\$ states in \$^{20}\text{O}\$](#)
- 12'+3' **Irene ZANON**, INFN, Dipartimento di Fisica e Scienze della Terra
- 09:45 - 10:00 [Shape isomerism in \$^{66}\text{Ni}\$?](#)
- 12'+3' **Joa LJUNGVALL**, Laboratoire de Physique des 2 Infinis Irène Joliot-Curie
- 10:00 - 10:15 [Decay of the "stretched" resonance in \$^{13}\text{C}\$ studied by gamma-particle coincidences as a testing ground for Gamow Shell Model](#)
- 12'+3' **Natalia CIEPLICKA-ORYNCZAK**, IFJ PAN Krakow
- 10:15 - 10:45 *Coffee break*

Nuclear Structure 5

10:45 - 12:15

Chairs: F. NOWACKI - S. PERU

10:45 - 11:15 [The Nuclear Shell Model: structure of exotic nuclei, weak processes and astrophysical issues](#)
25'+5' **N.A. SMIRNOVA**, Centre d'Études Nucléaires de Bordeaux Gradignan

11:15 - 11:45 [Symmetry breaking on the scale of the nuclear chart: exploring the BSkG1 model and its successor.](#)
25'+5' **Wouter RYSENS**, Université Libre de Bruxelles

11:45 - 12:00 [Beyond-mean-field calculations of transfermium nuclei](#)
12'+3' **Benjamin BALLY**, Universidad Autonoma de Madrid

12:00 - 12:15 [Nuclear Structure within Shell Model: new frontiers](#)
12'+3' **Duy DUC DAO**, Institut Pluridisciplinaire Hubert Curien

12:15 - 12:30 [Ab initio description of doubly open-shell nuclei via multi-reference expansion methods](#)
12'+3' **Mikael FROSINI**, Institut de Recherches sur les lois Fondamentales de l'Univers

12:30 - 14:30 *Lunch*

14:30 - 18:30 Excursion - as desired : Grotte de Choranche / Orienteering / Free time

20:00 - 22:00 *Dinner*

Nuclear dynamics and thermodynamics
08:30 - 10:30

Chairs: R. BOUGAULT - S. PIANTELLI (Remote)

- 08:30 - 09:00 [Constraining the low-density neutron star equation of state from heavy-ion collisions](#)
25'+5' **Helena PAIS**, University of Coimbra
- 09:00 - 09:30 [Central heavy-ion collisions around Fermi energies: what your mother never told you?](#)
25'+5' **John FRANKLAND**, Grand Accélérateur National d'Ions Lourds
- 09:30 - 09:45 [Asymmetry energy and nuclear matter equation of state: What have we learnt from experiments at GSI ?](#)
12'+3' **Arnaud LE FÈVRE (R)**, GSI Darmstadt - Helmholtzzentrum für Schwerionenforschung GmbH
- 09:45 - 10:00 [Energy dissipation and cluster correlations in excited light systems at Fermi energies investigated with HIPSE and AMD](#)
12'+3' **Catalin FROSIN**, INFN, Sezione di Firenze, Università degli Studi di Firenze, Dip. Fisica e Astronomia
- 10:00 - 10:15 [Femtoscopic probes of jet-fragmentation mechanisms in INDRA and FAZIA campaigns at GANIL](#)
12'+3' **Quentin FABLE**, Laboratoire des 2 Infinis - Toulouse, Université Paul Sabatier, Toulouse
-  10:15 - 10:30 [Study of quasi-projectile breakup in semiperipheral collisions of \$^{64,58}\text{Ni}+^{64,58}\text{Ni}\$ at 32 AMeV and 52 AMeV with the INDRA-FAZIA apparatus](#)
12'+3' **Caterina CIAMPI**, INFN, Sezione di Firenze, Università degli Studi di Firenze, Dipartimento di Fisica e Astronomia
- 10:30 - 11:00 *Coffee break*

Chairs: I. MONNET -C. GRYGIEL (Remote)

- 11:00 - 11:30 Nanoengineering of surfaces and 2D materials via electronic excitation.
25'+5' **Marika SCHLEBERGER**, Fakultät für Physik, Universität Duisburg-Essen
- 11:30 - 11:45 [Charge reversing multiple electron detachment Auger decay of in-ner-shell vacancies in gas-phase deprotonated DNA](#)
12'+3' **Thomas SCHLATHÖLTER (R)**, Zernike Institute for Advanced Materials, Univ. of Groningen
- 11:45 - 12:00 [Processing of ices in space by energetic particles: synthesis and radiolysis of organics](#)
12'+3' **Zuzana KANUCHOVA (R)**, Astronomical Institute of Slovak Academy of Sciences, T. Lomnica, INAF - Osservatorio Astronomico di Roma
- 12:00 - 12:15 [Radioresistance in Chondrosarcoma using the CIRIL-ARIA biology platform](#)
12'+3' **Francois CHEVALIER (R)**, CIMAP
-  12:15 - 12:30 [Swift heavy ions induced modification in mesoporous silica materials](#)
12'+3' **Jun LIN (R)**, Institut de Chimie Séparative de Marcoule

12:30 - 14:30 Lunch

Applications

14:30 - 15:30

Chair: G. DE FRANCE

- 14:30 - 15:00 [Harnessing photochemistry in radiotracer synthesis](#)
25'+5' **Jason HOLLAND (R)**, University of Zürich
-  15:00 - 15:15 [In vitro dosimetry for assessment of Targeted-Alpha-Therapy](#)
12'+3' **Alexis DOUDARD**, Grand Accélérateur National d'Ions Lourds
- 15:15 - 15:30 [3Dimensional Scintillation Dosimetry for Small Irradiation Fields Control in Protontherapy](#)
12'+3' **Anne-Marie FRELIN**, Grand Accélérateur National d'Ions Lourds

Nuclear Structure 6

15:30 - 16:15

Chair: G. DE FRANCE

15:30 - 16:00 [ACTAR TPC: performances, achievements and future upgrades](#)
25'+5' **Thomas ROGER**, Grand Accélérateur National d'Ions Lourds

 16:00 - 16:15 [2-proton decay of \$^{48}\text{Ni}\$ with ACTAR TPC](#)
12'+3' **Aurora ORTEGA MORAL**, Centre d'Etudes Nucléaires de Bordeaux Gradignan

16:15 - 16:45 *Coffee break*

Nuclear Structure 7

16:45 - 18:30

Chair: W. CATFORD

16:45 - 17:15 [Direct reaction studies at GANIL: an overview of recent MUST2 and MUGAST experiments](#)
25'+5' **Adrien MATTA**, Laboratoire de Physique Corpusculaire de Caen

 17:15 - 17:30 [The Coulomb force as a magnifying glass of nuclear structure in the A=36 mirror nuclei](#)
12'+3' **Louis LALANNE**, Grand Accélérateur National d'Ions Lourds - IJC Lab

 17:30 - 17:45 [Location of the unbound neutron \$0d_{3/2}\$ strength in \$^{17}\text{C}\$](#)
12'+3' **Juan LOIS-FUENTES**, IGFAE and Dpt. de Física de Partículas, Univ. of Santiago de Compostela,

17:45 - 18:00 [Missing mass spectroscopy of \$^8\text{C}\$](#)
12'+3' **Shumpei KOYAMA**, Grand Accélérateur National d'Ions Lourds

 18:00 - 18:15 [Study of the \$^{46}\text{Ar}\$ proton wavefunction by means of direct transfer reaction: \$^{46}\text{Ar}\(^3\text{He}, d\)^{47}\text{K}\$](#)
12'+3' **Daniele BRUGNARA**, Laboratori Nazionali di Legnaro, University of Padova

 18:15 - 18:30 [Investigating the N=28 shell closure below Z=20 through \$^{47}\text{K}\(d,p\)^{48}\text{K}\$](#)
12'+3' **Charlotte PAXMAN**, University of Surrey

20:00 - 23:00 *Banquet*

Friday, October 1st, 2021

Fundamental Interactions

09:00 - 10:15

Chair: B. BLANK

09:00 - 09:30 [Correlation measurements in nuclear beta decay](#)
25'+5' **Xavier FLECHARD**, Laboratoire de Physique Corpusculaire de Caen

09:30 - 10:00 [Improved Search for CP Violation in ortho-Positronium Decay](#)
25'+5' **Oscar NAVILIAT**, Laboratoire de Physique Corpusculaire de Caen



10:00 - 10:15 [Search for CP violation in nuclear beta decay: The MORA project](#)
12'+3' **Sacha DAUMAS-TSCHOPP**, Laboratoire de Physique Corpusculaire de Caen

10:15 - 11:00 Coffee break

Prizes: Poster and contribution

11:00 - 11:15

Thesis Award

11:15 - 11:40

11:40 - 12:00 Conclusions

12:00 - 13:45 Lunch

13:45 - 14:00 Shuttle to Grenoble Train Station