



French-Japanese Symposium on Nuclear Structure Problems
-Organized in the framework of FJNSP LIA -

September 30 - October 3

**CNRS Auditorium
3 rue Michel-Ange
75016 PARIS**

SCIENTIFIC PROGRAMME

Monday 30th September 2013

8:30 – 9:00 – Registration (Entrance Hall of CNRS)

9:00 – 9:10 – Welcome Address

SESSION 1

9:10 - 10:45

Chairperson : Dominique Guillemaud Mueller

Marek Lewitowicz (GANIL)

Latest developments and results at GANIL (20+5)

Tomohiro Uesaka (RIKEN)

RIBF (20+5)

Lucia Caceres (GANIL)

Latest results with the LISE spectrometer (20+5)

Tohru Motobayashi (RIKEN)

In-beam gamma-ray spectroscopy at RIBF (15+5)

10:45 - 11:10 Coffee break

SESSION 2

11:10 - 12:45

Chairperson : Tomohiro Uesaka

Michiharu Wada (RIKEN)

SLOWRI Facility (20+5)

Thomas Duguet (CEA/Irfu)

First ab-initio descriptions of medium-mass open shell nuclei (20+5)

Takaharu Otsuka (University of Tokyo)

Perspectives beyond the shell evolution (20+5)

Anna-Maria Corsi (CEA/Irfu)

MINOS : a new device for in-beam gamma spectroscopy and hydrogen-induced knockout reactions (15+5)

13:00 - 14:15 Lunch

SESSION 3
14:15 - 16:05
Chairperson : Marek Lewitowicz

Hervé Savajols (GANIL)
SPIRAL2 (20+5)

Jean-Charles Thomas (GANIL)
DESIR (15+5)

Antoine Drouart (CEA/Irfu)
Status report on the Super Separator Spectrometer (15+5)

Xavier Ledoux (GANIL)
NFS (15+5)

Tatsushi Shima (RCNP)
Nuclear Astrophysics with Secondary-particle Beams (20+5)

16:05 - 16:30 Coffee Break

SESSION 4
16:30 - 17:30
Chairperson : Hideki Ueno

Iolanda Matea (IN2P3/IPNO)
Latest developments on Paris (15+5)

Maurycy Rejmund (GANIL)
VAMOS (15+5)

Gilles De France (GANIL)
AGATA@GANIL (15+5)

Tuesday 1st October 2013

SESSION 5

9:00 - 10:35

Chairperson : Patricia Roussel-Chomaz

Marlène Assié (IN2P3/IPNO)

The GASPARD Silicon array (15+5)

Emmanuel Pollacco (CEA/Irfu)

GET (15+5)

Geoffrey Grinyer (GANIL)

Active Target and Time Projection Chamber: ACTAR TPC (15+5)

Tadaaki Isobe (RIKEN)

SAMURAI-TPC with GET system for next generation HIC experiments (10+5)

Shinsuke OTA (University of Tokyo)

CNS Active Target (15+5)

10:35 - 11:00 Coffee break

SESSION 6

11:00 - 12:40

Chairperson : Tohru Motobayashi

Miguel Marques (IN2P3/LPC Caen)

Exploring the structure of the most neutron-rich isotopes of Boron and Carbon (15+5)

Naoyuki Itagaki (YITP, Kyoto)

Exotic cluster structure in light nuclei (20+5)

Didier Beaumel (IN2P3/IPNO and RIKEN)

Direct reactions with exotic beams (15+5)

Takahiro Kawabata (Kyoto University)

Alpha inelastic scattering and cluster structures in light nuclei (15+5)

Yohei Matsuda (Osaka University)

Proton elastic scattering on proton-rich carbon isotopes: $^{9,10,11}\text{C}$ (10+5)

13:00 - 14:15 Lunch

SESSION 7

14:15 - 16:00

Chairperson : Nicolas Alamanos

Yosuke Kondo (Tokyo Institute of Technology)

Invariant mass spectroscopy of unbound oxygen isotopes using SAMURAI (20+5)

Valérie Lapoux (CEA/Irfu)

Resonances of ^{24}O and proton-nucleus interaction potentials of $^{21-24}\text{O}$ via (p,p') scattering at RIBF using the MUST2 array (10+5)

Megumi Niikura (University of Tokyo)

β -decay spectroscopy in the vicinity of ^{78}Ni (10+5)

Marcella Grasso (IN2P3/IPNO)

Tensor force in the effective Skyrme and Gogny interactions. Phenomenological indications in a ground-state-focused study (10+5)

Hiroyuki Sagawa (University of Aizu)

Role of T=0 pairing in the ground states of N=Z nuclei and Spin-Isospin excitations (15+5)

Eiji Uegaki (Akita University)

Wobbling Motions Observed as Molecular Resonance in $^{28}\text{Si} + ^{28}\text{Si}$ (10+5)

16:05 - 16:35 Coffee Break

SESSION 8

16:35 - 17:30

Chairperson : Michiharu Wada

Masayuki Matsuo (Niigata)

Exotic aspects of pair correlation in neutron-rich nuclei (15+5)

Georgi Georgiev (IN2P3/CSNSM)

Polarisation and g factors (15+5)

Eiji Ideguchi (Osaka University)

Study of Neutron-rich Z=60 Nuclei (10+5)

LIA Steering Committee Meeting (closed session)

18:00 - 20:00

Wednesday 2nd October 2013

SESSION 9

9:00 - 10:35

Chairperson : Bertram Blank

Kouji Morimoto (RIKEN)

New result in the production and Decay of ^{278}Fl (20+5)

Radomira Lozeva (IN2P3/IPHC)

Results with EURICA collaboration (20+5)

Makoto Ito (Kansai University)

Application of the generalized two-center cluster model to ^{18}O (10+5)

David Boilley (GANIL)

Can we predict the fusion cross-section of super-heavy elements? (10+5)

Danilo Gambacurta (GANIL)

Collective Modes in Second RPA with Skyrme and Gogny Interaction (10+5)

10:35 - 11:00 Coffee break

SESSION 10

11:00 - 12:40

Chairperson : Takaharu Otsuka

Olivier Dorvaux (IN2P3/IPHC)

Very heavy and super-heavy nuclei (20+5)

Yoritaka Iwata (University of Tokyo)

The TDDFT calculations for low-energy heavy-ion collisions (15+5)

Shintaro Go (University of Tokyo)

Study of high spin states in ^{35}S (10+5)

Peter Schuck (IN2P3/IPNO)

Alpha particle condensation in nuclear systems (10+5)

Dominique Jacquet (IN2P3/IPNO)

Probing super heavy element stability through fission time measurement (20+5)

13:00 - 14:15 Lunch

SESSION 11

14:15 - 16:00

Chairperson : Didier Beaumel

Denis Lacroix (IN2P3/IPNO)

Pairing effects in small and large amplitude collective motion (10+5)

Masashi Tomita (Kansai University)

Coupled-channel studies of the p+12C scattering with microscopic spin-orbit interactions (10+5)

Fadi Ibrahim (IN2P3/IPNO)

ALTO Facility (20+5)

Kazuko Sugawara-Tanabe (RIKEN)

Angular momentum dependence of moments of inertia due to Coriolis anti-pairing and blocking effects (10+5)

Juzo Zenihiro (RIKEN)

Study of simultaneous extractions of proton and neutron density distributions from proton elastic scattering of 90, 92, 94Zr at 200 and 300 MeV (10+5)

Michael Urban (IN2P3/IPNO)

Application of nuclear-physics methods to ultracold atoms : dipolar Fermi gases and Bose-Fermi mixtures (15+5)

16:00- 16:30 Coffee Break

SESSION 12

16:30 – 17:55

Chairperson : Florent Staley

Masaru Yosoi (RCNP)

Hadron Physics Experiments at LEPS and LEPS2 (15+5)

Atsushi Hosaka (RCNP)

Exotic hadrons with heavy flavors (15+5)

Guy Royer (IN2P3/SUBATECH)

Fusion, fission, alpha and cluster emission and super-heavy element formation and decay within a generalized liquid drop model (10+5)

Neil Rowley (IN2P3/IPNO)

On the smooth and oscillatory Wong fusion cross sections (10+5)

Kassem Moghrabi (IN2P3/IPNO)

The many-body problem in nuclear matter (10+5)

Symposium Dinner: 20:00 Restaurant “Le Congrès”

Thursday 3 October 2013

**Auditorium Biopark
Université Paris Diderot
11 rue Watt
75013 Paris**

SESSION 13

9:30 - 10:45

Chairperson : Valérie Lapoux

Hideyuki Sakai (RIKEN)

Spin-isospin responses studied by (p,n) reactions with SHARAQ (15+5)

David Lunney (IN2P3/CSNSM)

New magic in the atomic nucleus (10+5)

Yutaka Watanabe (KEK)

Present status of KEK isotope separation system (15+5)

Katsuhisa Nishio (JAEA)

Experimental study for heavy-ion induced fission (15+5)

10:45- 11:15 Coffee break

SESSION 14

11:15 - 12:15

Chairperson : Hideyuki Sakai

Bertram Blank (IN2P3/CENBG)

Two-proton radioactivity (15+5)

Cédric Simenel (The Australian National University)

Microscopic study of the effect of collective vibrations on low-energy fusion (10+5)

Hideki Ueno (RIKEN)

Present status of nuclear moment measurements at RIBF/Closing (20+5)