Dear Colleagues,

The second joint Workshop of the COLL-AGAIN (France-Italy), COPIGAL (France-Poland), and POLITA (Italy-Poland) collaborations will be held at LNS in Catania in the period 26-29 April 2016. This framework aims to reinforce existing collaborations and promote new contacts and exchanges between the nuclear physics communities of the three countries.

The scientific program is attached

REGISTRATION

You can register online at the website of the conference:

www.lns.infn.it/link/LIA-2016

PLEASE, REGISTER AS SOON AS POSSIBLE!!

PRACTICAL INFORMATION

- VENUE ADDRESS

Istituto Nazionale di Fisica Nucleare
Laboratori Nazionali del Sud - LNS
Via S. Sofia 62,
I-95123 Catania, Italy

URL: www.lns.infn.it

- DAILY SHUTTLE SERVICE

There will be organized bus transportation every day from downtown to LNS and from LNS to downtown, with the exception of the 26 of April in the morning when participants will use public transportation to reach the laboratory (please, note that the 26 of April lunch will be provided for all participants at LNS at 13.00). The 27 and 28 of April the bus will leave at 8.15 from Piazza Stesicoro (a map can be found on the web site). The 29 of April the bus will leave at 8.00 from Piazza Stesicoro.

The 29 of April, after the last session, a shuttle service will be organized to the airport and to downtown.

All the information about the daily shuttle service will be confirmed during the first day of the Workshop.
- PUBLIC BUS TRANSPORTATION

It is possible to get to University campus via the BRT bus line, getting off at the "Cittadella Ovest" bus stop, just 30 meters after campus entrance. The route, the corresponding map, and the timetable can be found on the web site. Bus runs every 7/10 minutes in the morning/afternoon. Bus tickets (1€) can be found at the newspaper kiosks or tobacconists. Remember to validate your ticket at the automatic counter inside the bus once you get in. To go back to the hotels, you need to take the BRT bus line at the "Cittadella Est" bus stop.

- MEALS

Buffet lunches will be provided for all participants from 26 to 29 of April at LNS. A conference dinner will be organized the 27 of April. More information will be provided during the Workshop.

- HOTELS

Participants may use the selection of hotels provided on the web page of the Workshop following the instructions given there (special prices have been negotiated for the participants). Those who need assistance may write to the address: info@pi4.it.

We also include here some suggestions for hotels that participants may book via booking.com or TripAdvisor or directly via the links provided below. Please, be aware that for the hotels listed below prices have not been negotiated for the Workshop by the organizers.

- Hotel Stesicorea (http://www.stesicoreapalace.it/)
- Hotel La Collegiata (http://www.bb-catania-guesthouse.it/catania-hotel-centro-storico.html)
- Hotel Sofia (http://www.hotel-sofia.it)
- Hotel Novecento (http://www.hotelnovecentocatania.com)
- Hotel Agathae (http://www.hotelagathae.it)
- Hotel Stesicoro (http://www.bbtesicoro.it/)
- Hotel Il Principe (http://www.ilprincipehotel.com/)

Organizing committee (spokespersons of the three agreements)

B. Fornal, F. Gramegna, M. Grasso, M. Lewitowicz

Local organizing committee

G. Cardella, M. Colonna, E. Lanza, P. Russotto, D. Santonocito

Conference Secretary

G. Agnello, V. Potenza, LNS

We look forward to seeing you in Catania,

Bogdan Fornal, Fabiana Gramegna, Marcella Grasso, and Marek Lewitowicz
PROGRAM
Joint LIA COLL-AGAIN COPIGAL POLITA WORKSHOP
26-29 April 2016, LNS Catania

Tuesday, 26 April
Registration and Lunch

14.25 Welcome by B. Fornal, F. Gramegna, M. Grasso, M. Lewitowicz

Welcome and Opening Talks. Chairperson: G. Fiorentini

14.35-15.00 Welcome by G. Cuttone (LNS Director) & A. Insolia (INFN Ct Director)
15.00-15.15 E. Nappi (INFN)
   *NP in Italy and its relation in the international framework*
15.15-15.30 F. Farget (IN2P3)
   *Nuclear Physics at IN2P3*
15.30-15.45 A representative of the Polish Ministry of Science

Session Facilities I. Chairperson: F. Farget

15.45 - 16.10 G. Georgiev (CSNSM Orsay)
   *ALTO: The 'little big Facility' for nuclear physics at Orsay*
16.10 - 16.35 M. Kmiecik (IFJ PAN Krakow)
   *Collective excitations using proton beam at CCB Krakow - program and preparation measurements*

16.35-16.55 Coffee break

Session Facilities II. Chairperson: M. Taiuti

16.55 - 17.20 M. Lewitowicz (GANIL)
   *Present and future of the GANIL-SPIRAL2 facility*
17.20 - 17.45 P. Napliorkowski (HIL UW Warsaw)
   *Research news from Heavy Ion Laboratory, University of Warsaw*
17.45 - 18.10 G. Prete (LNL)
   *LNL and the SPES project*
18.10 - 18.35 D. Rifuggiato (LNS)
   *LNS and the CS upgrade*

Wednesday, 27 April

Session Theory I. Chairperson: N. Alamanos

9.00 - 9.25 S. Burrello (LNS)
   *Pairing and Symmetry Energy effects in low density nuclear matter: nuclear reactions and neutron stars*
9.25 - 9.50 M. Grasso (IPN Orsay)
   *Tailoring interactions for beyond-mean-field models in EDF theories*
9.50 - 10.15 N. Itaco (INFN & Univ. Na)
   *Realistic Shell Model: Consistently Facing the Four Quadrants around 208Pb*
10.15 - 10.40 M. Kowal (NCBJ Warsaw)
   *Candidates for long-lived high-K ground states in superheavy nuclei*

10.40 - 11.00 Coffee break
Session Nuclear Structure I. Chairperson: S. Leoni

11.00 - 11.25 B. Blank (CENBG Bordeaux)
   Two-proton radioactivity - a nuclear structure tool beyond the drip line
11.25 - 11.50 F. Crespi (INFN & Univ. Mi)
   Review of Selected Experiments on Collective Modes via Gamma Spectroscopy
11.50 - 12.15 E. Clément (GANIL)
   Spectroscopic Quadrupole Moment in 96,98Sr : Shape coexistence at N=60 COPIGAL
12.15 - 12.40 A. Goasduff (LNL)
   Recent development on electromagnetic moment measurements using plunger techniques at ALTO and LNL
12.40 - 13.05 K. Hadynska (LNL INFN and HIL UW)
   Development of the Coulomb excitation technique at INFN LNL and HIL Warsaw. Status and perspectives

Lunch

Session Theory II. Chairperson: T. Matulewicz

14.45 - 15.10 F. Nowacki (IPHC Strasbourg)
   Model Stability From Shell Far
15.10 - 15.35 J. Okołowicz (IFJ PAN Krakow)
   Near-threshold clustering
15.35 - 16.00 X. Roca-Maza (INFN Mi)
   Dipole polarizability and the neutron skin thickness in nuclei
16.00 - 16.25 M. Warda (UMCS Lublin)
   Studies of formation, structure, collective excitations and decay modes of nuclei far from stability, made and planned by the Lublin group of nuclear theory

16.25 - 16.50 Coffee break

Session Nuclear Structure II. Chairperson: F. Staley

16.50 - 17.15 L. Iskra (IFJ PAN Krakow)
   Spectroscopic study of neutron-rich Y isotopes produced in fission induced by cold neutrons on various targets
17.15 - 17.40 M. Krzyśek (IFJ PAN Krakow)
   Study on the pygmy dipole states in $^{146}$Ce using inelastic scattering of $^{17}$O
17.40 - 18.05 S. Lenzi (INFN & Univ. Pd)
   AGATA - Campaign in GANIL
18.05 - 18.30 I. Stefan (IPN Orsay)
   Deep inelastic at 0°
18.30 - 18.55 M. Zielinska (SPhN Saclay)
   Onset of deformation in neutron-rich Rb isotopes from Coulomb excitation studies
Thursday, 28 April

Session Instrumentation I. Chairperson: P. Bednarczyk

9.00 - 9.25 D. Beaumel (IPN Orsay)
   Development of new Silicon arrays for high resolution transfer studies.

9.25 - 9.50 E. de Filippo (INFN Ct)
   Integration of the GET electronics for the CHIMERA + FARCOS devices

9.50 - 10.15 M. Jastrzab (IFJ PAN Krakow)
   Application of Diamond Detectors to Proton beam measurements and ultrafast timing

10.15 - 10.40 P. Kulig (UJ Krakow)
   Modeling of the signal from silicon detectors in nuclear reactions

10.40 - 11.00 Coffee break

Session Interface Nuclear Structure/reactions. Chairperson: K. Rusek

11.00 - 11.25 M. Cavallaro (LNS)
   Transfer reactions and neutron decay studies by the MAGNEX-EDEN facility

11.25 - 11.50 A. Chbihi (GANIL)
   In-medium dynamics in nuclear structure

11.50 - 12.15 E. Fioreto (LNL) –
   Inverse kinematics experiments with the PRISMA spectrometer

12.15 - 12.40 N. Keeley (NCBJ Warsaw)
   Direct Reactions With Light Radioactive Beams

12.40 - 13.05 D. Lacroix (IPN Orsay)
   Superfluid effects in nuclear collective motion: applications to fission and other processes

13.05 - 13.30 A. Trzcinska (HIL Warsaw)
   Quasielastic barrier distributions studies - influence of weak channels

Lunch

Session Instrumentation II. Chairperson: G. De Angelis

14.45 - 15.10 A. Maj (IFJ PAN Krakow)
   The novel gamma calorimeter PARIS – status of the development

15.10 - 15.35 T. Marchi (KU Leuven)
   ATS: the Active target for SPES

15.35 - 16.00 H. Savajols (GANIL)
   S3 facility at SPIRAL2

16.00 - 16.25 D. Mengoni (INFN & Univ. Pd)
   The GALILEO gamma array @LNL: commissioning & experimental campaign

16.25 - 16.50 J.C. Thomas (GANIL)
   The DESIR facility at GANIL-SPIRAL2

16.50 - 17.10 Coffee break

Session Dynamics I. Chairperson: M. Lattuada

17.10 - 17.35 R. Bougault (LPC Caen)
Isospin effects in Heavy Ion collisions
17.35 - 18.00 L. Morelli (INFN & Univ. Bo)
  Clustering effects in reactions with light even-even N=Z nuclei.
  From the Hoyle state to cluster emission in 24Mg
18.00 - 18.25 A. Sochocka (UJ Krakow)
  Isospin effect studies for intermediate mass fragments
  Production in heavy ion collisions at intermediate energies

End of Session Theory II:
18.25 - 18.50 T. Duguet (SPhN Saclay)
  Ab initio calculations of mid-mass nuclei with chiral interactions

Friday, 29 April

Session Interdisciplinary Research and Applications. Chairperson: P. Moretto

8.45 - 9.10 E. Fagotti
  Design, construction and first operation of the IFMIF Prototype Accelerator
9.10 - 9.35 A. Maj and W. Krolas (IFJ PAN Krakow)
  The initiative to host IFMIF/DONES in Poland – status and scientific program
9.35 - 10.00 X. Ledoux (GANIL)
  The Neutrons For Science Facility at GANIL/SPIRAL-2

10.00 - 10.20 Coffee break

Session Nuclear Astrophysics. Chairperson: J. Jastrzebski

10.20 - 10.45 A. Guglielmetti (INFN & Univ. Mi)
  Nuclear astrophysics underground: the LUNA experiment at Gran Sasso Laboratory
10.45 - 11.10 F. Hammache (IPN Orsay)
  Study of stellar nucleosynthesis using radioactive beams at GANIL
11.10 - 11.35 M. La Cognata (LNS)
  Nuclear astrophysics with indirect approaches: ANC and Trojan Horse Method
11.35 - 12.00 C. Mazzocchi (UW Warsaw)
  Study of astrophysically-relevant photo-disintegration reactions
12.00 - 12.25 N. de Sereville (IPN Orsay)
  Astrophysical studies with Splitpole spectrometer at the ALTO facility

Lunch

Session Dynamics II. Chairperson: D. Durand

13.45 - 14.10 P. Russotto (INFN-Catania)
  Constraining the symmetry energy at supra-saturation densities: the ASY-EOS experiment at GSI
14.10 - 14.35 K. Siwek-Wilczynska (UW Warsaw)
  What can we learn about the reaction mechanism from studies of Au+Au collisions at 23MeV/A?
14.35 - 15.00 G. Verde (IPN Orsay/INFN-Catania)
  In-medium characterisation of sources and EoS
Conclusions and Perspectives. Chairperson: A. Pagano

15.00 - 15.25  A. Bracco (Univ. Mi & INFN Mi)

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