PROGRAM
Joint LIA COLL–AGAIN – COPIGAL – POLITA WORKSHOP
15-18 November 2022, Orsay, Paris, France

Tuesday 15th November

*10:30 Steering Committee **(closed session)***

Opening Talks

13:30 Nuclear Physics in France, Marcella Grasso (IN2P3)
*13:45 Nuclear Physics in Italy, Rosario Nania (INFN) **online***
*14:00 Nuclear Physics in Poland, Mateusz Gaczyński (Ministry of Education and Science), **online***

Nuclear Structure (Experiment and Theory):

14:20 Heavy-ion binary reactions as a tool for detailed gamma spectroscopy in exotic regions, S. Leoni
14:40 Selected results AGATA+PARIS+VAMOS experiments, M. Ciemała
15:00 7Li gamma decay in the continuum - S. Bottoni
15:20 Narrow resonances in the continuum of ^{15}F, V. Girard-Alcindor
15:40 Stretched resonance decay in ^{13}C, ^{14}N, ^{16}O, N. Cieplicka-Orynczak

16:00-16:30 Coffee break

16:30 Studies of proton rich nuclei using the GALILEO, Neutron Wall and charged particle detectors, M. Siciliano
16:50 Nuclear structure close to N=Z=50 with AGATA, M. Palacz
17:10 Evolution of nuclear structure in neutron-rich Y nuclei near N=60, L. Iskra
17:30 Shell model calculations near the doubly magic ^{132}Sn and ^{208}Pb cores, A. Gargano
17:50 Nuclear deformation in excited states – Superdeformation, K. Hadyńska Klęk
18:10 Study of the origin of the low-lying isomer in ^{45}Sc, M. Matejska-Minda
18:30 NUPECC Long range plan, M. Lewitowicz
18:50 END

Cocktail and Poster session

Wednesday 16th November

09:30 Nuclear deformation in excited states - Shape coexistence, K. Wrzosek-Lipska,
09:50 PARIS for GDR and highly excited states at ALTO, M. Kmiecik
10:10 PARIS for GDR and highly excited states at CCB IFJ PAN, F. Crespi
10:25 Isomers and giant resonances built on isomers: theory predictions and experimental research, J. Dudek

10:45 → 11:20 Coffee break

11:20 PARIS at Orsay/GANIL: NFS-LISE, I. Matea
11:40 Neutron capture reactions/Fission at ILL, G. Colombi
12:00 Study of neutron-rich nuclei with LICORNE, D. Thisse
12:20 Gamow-Teller excitations within the Subtracted Second RPA, D. Gambacurta

12:40 → 14:10 Lunch break

14:10 Lifetime measurement of excited states in ^{20}O populated by direct nucleon transfer, I. Zanon
14:30 Direct reactions with AGATA-MUGAST, D. Brugnara
14:50 Experiment with GALILEO/EUCLIDES+NEDA, $^{13}C+^{122}Sn$, C. Petrache

Reactions (Experiment and Theory)

15:10 Recent attempts to bridge energy density functionals and effective field theory, S. Burello

15:30 → 16:00 Coffee break

16:00 PARIS for studies of fission with VAMOS, C. Schmitt
16:20 Fusion barrier distribution studies, G. Colluci
16:40 Fission dynamics within state-of-the-art Langevin approach, K. Mazurek
17:00 Predictions for the synthesis cross-sections of Z=114–120 element, T. Cap

17:20 END

17th November (thursday)

Astrophysics (Experiment and Theory)

09:30 Oxygen-15 α-capture measurements for neutron stars in binary systems through α-transfer on the SPIRAL-1 15O RIB, J. Sanchez-Rojo
09:50 Indirect techniques in nuclear astrophysics and the Trojan Horse method, A. Tumino
10:10 Exploring neutron induced reactions of astrophysical interest via THM, L. Lamia
10:30 A new method to measure femtosecond lifetimes. Application to ^{22}Na production in nova explosions. F. de Oliveira

10:50 → 11:20 Coffee break

Interdisciplinary Research and Applications

11:20 Preparation of the physics case for the IFMIF facility, W. Krolas
11:40 Nuclear instrumentation applied to vulcanology, L. Terray
12:00 The development of the SPES charge booste, J. Angot

12:20 → 14 :00 Lunch break

Instrumentation

14:00 Development of the PARIS array, A. Maj
14:20 PARIS electronics and acquisition, S. Brambilla
14:40 Development of FAZIA, G. Casini
15:00 FAZIA tests in Krakow, S. Barlini

15:20 → 15:50 Coffee break

15:50 MUGAST@GANIL, M. Assié
16:10 GRIT@SPES, F. Galtarossa
16:30 AGATA@GANIL, E. Clement
16:50 AGATA @LNL: start-up of AGATA campaign, A. Gottardo

17:10 END

Conference Dinner

Friday 18th of November

09:30 Mini recoil spectrometer, T. Kurtukian-Nieto
09:50 Cryogenic Target, M. Sedlak
10:10 ACTAR, T. Roger
10:30 Reaction dynamics studies with light exotic beams, K. Rusek/M. Mazzocco

10:50 → 11:20 Coffee break

11:20 Cluster formation in nuclear reactions, P. Napolitani
11:40 Experimental study of equilibrium constants for light clusters, A. Rebillar-Soulié,
12:00 Physics with FAZIA: some recent results from the INDRA-FAZIA coupling, C. Ciampi

12:20 END