



LISE Workshop & PARIS@GANIL2022

Program (preliminary fev. 1)

Thursday, Feb 04 2021 video

Introduction, recent highlights and experimental setups

Chairperson: F. de Oliveira

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|-----------------------|---|
| 09:15 -- 09:25 | O. Sorlin / M. Lewitowicz (10') Welcome address/
Goals of the workshop |
| 09:25 -- 09:45 | L. Lalanne (15') Study of $^{35,36,37}\text{Ca}$ nuclei by means
of (p,d) and (p,t) transfer reactions |
| 09:45 -- 10:05 | S. Koyama (15') Mirror symmetry between ^8C and ^8He
and ^3He clustering in the N=2 isotones. |
| 10:05 -- 10:25 | V. Alcindor-Girard (15') Measurement of
surprisingly narrow above barrier resonances in ^{15}F
and study of their decay mechanism |
| 10:25 -- 10:45 | S. Calinescu (15') Low and high-energy E2
excitations in ^{68}Ni . |
| 10:45 -- 10:55 | O. Sorlin (10') Zero Degree detection and the
PARIS-EXOAM2 array (campaign 2022) |
| 10:55 -- 11:05 | M. Assié (10') MUGAST-EXOAM2 array and Zero Degree
detection (campaign 2023) |
| 11:05 -- 11:25 | T. Roger (15') Selected results and future projects
using ACTAR-TPC at LISE |
| 11:25 -- 11:50 | Discussions and Coffee break |
| 11:50 -- 12:10 | A. Maj (15') General presentation of PARIS detector
and selected results |
| 12:10 -- 12:25 | S. Brambilla (12') Electronics and DAQ for PARIS |
| 12:25 -- 12:40 | M. Ciemala (12') Gamma-ray simulations with the
PARIS-EXOAM2 array. |
| 12:40 -- 14:00 | Lunch |

Coulomb and nuclear excitations @ LISE

Chairperson: M. Lewitowicz

- 14:00 -- 14:25 **E. Khan** (20') Study of Mn/Mp transitions in exotic nuclei with various probes.
- 14:25 -- 14:45 **R. Lica** (15') Coulomb excitation of ^{34}Si : study of low and high-energy modes
- 14:45 -- 15:05 **S. Grévy** (15') Coulomb excitation in the $^{36,38,40}\text{Si}$: the role of tensor forces
- 15:05 -- 15:25 **D. Sohler** (15') Probing neutron excitations in the Si isotopes: their role in inducing deformation at N=28
- 15:25 -- 15:50 **E. Clément** (20') Lifetime measurements of excited states produced through (d,p) transfer reactions
- 15:50 -- 16:15** **Coffee break**
- 16:15 -- 16:35 **C. Fougères** (15') Probing nova resonances and spectroscopic factors by the measurement of direct cross section in ^{23}Mg
- 16:35 -- 16:50 **O. Sorlin** (12') Coulomb excitation of ^{22}O
- 16:50 -- 17:30 **Other contributions + discussions**

Friday, Feb 05 2021 video

Study of PDR modes at GANIL using PARIS

Chairperson: Y. Blumenfeld

- 09:30 -- 09:55 **A. Bracco** (20') Pigmy Dipole Resonances: achievements and remaining questions
- 09:55 -- 10:20 **M. Grasso** (20') Soft breathing modes and pygmy dipole resonances with the SSRPA
- 10:20 -- 10:40 **E. Lanza** (15') Pygmy Dipole Resonance investigated via isovector and isoscalar probes
- 10:40 -- 11:00 **S. Calinescu** (15') Recent results on PDR modes in ^{68}Ni and future plans at LISE
- 11:00 -- 11:20 **M. Vandebrouck** (15') PDR studies at NFS via (n,n' γ) reactions
- 11:20 -- 11:45** **Coffee break**

11:45 -- 12:15 Discussion on the strategy to study PDR modes at GANIL, possible combination with breathing mode study in ACTAR-TPC.

12:15 -- 14:00 Lunch break

Campaign PARIS @ VAMOS

Chairperson: A. Lemasson

14:00 -- 14:10 A. Lemasson (10') Introduction : Gamma-rays as a probe of the fission process

14:10 -- 14:35 C. Schmitt (20') A step forward with the PARIS@VAMOS set up

14:35 -- 15:00 O. Litaize (20') Progress in our understanding of the physics

15:00 -- 15:15 Short break

Campaign MUGAST-EXOAM2 @ LISE

Chairperson: M. Assié

15:15 -- 15:30 O. Kamalou (12') Slow-down of RIB at LISE

15:30 -- 15:50 O. Sorlin (15') Selected examples of experiments at the N=8, 20 and 40 closed shells

15:50 -- 16:10 S. Koyama (15') Simulation of $^{68}\text{Ni}(d,p)$ and $^{68}\text{Ni}(d,t)$ transfer reactions using the MUGAST setup at LISE

16:10 -- 16:30 S. Bottoni (15') Rotational bands in the continuum of ^{11}Be through $^{10}\text{Be}(d,p)$

16:30 -- 16:50 A. Gottardo (15') Z=28 core breaking from $^{55}\text{Co}(^3\text{He},d)^{56}\text{Ni}$ reaction

16:50 -- 17:30 Discussion on proposals to defend for the next PAC. Opportunities to use TANDEM mode? Choice of (d,t) versus (p,d) reaction ?