



# LISE Workshop 2024

## Program

Thursday, May 23<sup>rd</sup>

[GANIL guest house]

09:30 -- 09:40      **O. Sorlin/J.-C. Thomas** (10') Welcome and goals of the workshop

### In-beam Coulomb excitation

#### Chairperson:

09:40 -- 10:00      **Q. Delignac** (20') Coulomb excitation of neutron-rich Si isotopes using a 'brochette mode' (E823-2022)

10:00 -- 10:10      **A. S. Ise (visio)** (10') Preliminary results of Coulomb excitation of  $^{34}\text{Si}$  (E798-2022)

### In-beam transfer reaction (part 1)

10:10 -- 10:40      **V. Alcindor** (30'): Overview of MUGAST@GANIL and study of new types of clustering in  $^{10,12}\text{Be}$ .

10:40 -- 11:00      **H. Jacob** (20') Preliminary results of the  $^{48}\text{Cr}(p, ^3\text{He})^{46}\text{V}$  experiment (E805-2023)

**11:00 -- 11:30**      **Coffee break**

11:30 -- 11:50      **O. Aktas** (20') Preliminary results of the  $^{68}\text{Ni}(d,p)^{69}\text{Ni}$  reaction (E843-2023)

- 11:50 -- 12:10 **F. Galtarossa (visio)** (20') Preliminary results of the  $^{34}\text{Si}(p,d)^{33}\text{Si}$  reaction (E869-2024)
- 12:10 -- 12:45 **Discussions**
- 12:40 -- 14:00 **Lunch break**

### [LPC Caen - Gilles Iltis seminar room]

#### In-beam transfer reaction (part 2)

##### Chairperson:

- 14:00 -- 14:20 **J. Lois Fuentes (visio)** (20') Evolution of shell structure in n-rich C and O isotopes. Results of transfer reactions with solid and active targets (E796-2022, E628-2014)
- 14:20 -- 14:40 **L. Lalanne (visio)** (20') Transfer (p,d) and (p,t) reactions in the neutron-deficient Ca isotopes (E755-2018)
- 14:40 -- 15:00 **O. Sorlin** (20') Constancy of  $C^2S$  values in the neutron-deficient C isotopes towards drip line (E738-2018).

#### In-beam transfer reaction (part 3)

- 15:00 -- 15:20 **A. Macchiavelli (visio)/ M. Assié** (20') The tetra-neutron Isobaric Analog State in  $^4\text{H}$ : The case for the  $^6\text{He}(p,^3\text{He})$  reaction (proposal E873)
- 15:20 -- 15:40 **N. de Séréville** (20') Determining the thermonuclear  $^{18}\text{Ne}(\alpha,p)^{21}\text{Na}$  reaction rate by measurement of the  $^7\text{Li}(^{18}\text{Ne},t)^{22}\text{Mg}(p)^{21}\text{Na}$  reaction (proposal E857)
- 15:40 -- 16:00 **M. Lozano-González** (20') Transfer reactions with the Be-Li isotopes near the drip line (E748-2018)
- 16:00 -- 16:20 **Discussions**

- 16:20 -- 16:40      **Coffee break**
- 16:40 -- 17:00      **O. Roig** (20') The SFyNCS setup for nuclear level densities and gamma strength functions study
- 17:00 -- 17:20      **A. Ortega-Moral** (20') Decay studies with ACTAR TPC
- 17:20 -- 18:00      **General discussions**
- 19:30 -- 22:00      **Dinner at El Olivo**

**Friday, May 24<sup>th</sup>**

**[LPC Caen – Gilles Iltis seminar room]**

### **Decay studies**

**Chairperson: T. Roger**

- 09:30 -- 09:50      **J.-C. Thomas** (20')  $0^+ \rightarrow 0^+$  beta decay studies at LISE
- 09:50 -- 10:10      **R. Garreau** (20') b-STILED, precision measurements in the beta decay of  ${}^6\text{He}$  (E815-2023)
- 10:10 -- 10:30      **V. Guadilla** (20') Measurements with the Warsaw optical TPC at GANIL (E839-2023)
- 10:30 -- 10:50      **M. Fallot** (20') Proposed TAGS measurements at GANIL
- 10:50 -- 11:30      **General discussions**