



## PRE - PAC WORKSHOP OF AGATA@LNL

INFN, LABORATORI NAZIONALI DI LEGNARO  
OCTOBER 2-3, 2023

### SCIENTIFIC PROGRAMME

#### Monday, October 2<sup>nd</sup>, 2023

- 13:00 - 14:00    **Registration**
- 14:00 - 14:10    **Welcome Address 10'**  
Speaker:    Fabiana Gramegna (INFN LNL Director)
- 14:10 - 15:40    **Session: AGATA at LNL**
- 14:10 – 14:40    **Accelerator Status 30'**  
Speaker:    Enrico Fagotti
- 14:40 – 15:00    **Status of the campaign 20'**  
Speaker:    Jose Javier Valiente Dobón
- 15:00 – 15:20    **Overviews of the Lol for the 4<sup>th</sup> Pre-PAC 20'**  
Speaker:    Magda Zielińska
- 15:20 – 15:40    **EXOTIC Status 20'**  
Speaker:    Marco Mazzocco
- 15:40 - 16:10    **Coffee break**
- 16:10 – 17:30    **Session: Lol 1**
- 16:10    **Fusion of  $^{12}\text{C} + ^{16}\text{O}$  at extreme sub-barrier energies 20'**  
Speaker:    G. Montagnoli
- 16:30    **Study of the cluster structure in  $^{12}\text{C}$  20'**  
Speaker:    D. Torresi
- 16:50    **Multiparticle-multihole state mixing in  $^{46}\text{Ca}$ ? 20'**  
Speaker:    M. Balogh

- 17:10 **Probing the Z = 50 shell closure toward  $^{100}\text{Sn}$ : lifetime measurements in light odd-mass Sn and Sb** 20'  
Speaker: G. Pasqualato

## Tuesday, October 3<sup>rd</sup>, 2023

### 9:30 - 11:10 **Session: Lol 2**

- 9:30 **Searching for the second proton  $0^+$  in the bubble nucleus  $^{46}\text{Ar}$**  20'  
Speaker: D. Brugnara
- 9:50 **Intruder configurations toward the Island of Inversion** 20'  
Speaker: K. Wimmer
- 10:10 **The  $^{74}\text{Zn}$  puzzle** 20'  
Speaker: E. Clement
- 10:30 **Combined lifetime and transition-probability measurements in  $^{96}\text{Zr}$  via unsafe Coulomb excitation** 20'  
Speaker: M. Zielinska
- 10:50 **Octupole correlations in exotic neutron-deficient xenon isotopes using novel multinucleon transfer reactions** 20'  
Speaker: J. Keatings

### 11:10 – 11:40 **Coffee break**

### 11:40 – 13:20 **Session: Lol 3**

- 11:40 **Performances of AGATA at high energies** 20'  
Speaker: M. Balogh
- 12:00 **Collectivity study in neutron-rich Indium and Silver isotopes via lifetime measurement** 20'  
Speaker: Z. Chen
- 12:20 **Highly deformed bands in europium isotopes and identification of new isotopes** 20'  
Speaker: C.M. Sullivan
- 12:40 **Accessing neutron-rich nuclei close to  $^{208}\text{Pb}$**  20'  
Speaker: F. Galtarossa
- 13:00 **Lifetime measurements in neutron-rich Pb isotopes. Exploring the nuclear structure around the N=126 shell** 20'  
Speaker: M. Doncel

13:20 - 15:00 **Lunch**

15:00 - 16:40 **Session: Lol 4**

15:00 **Probing nucleon-nucleon correlations in the  $^{48}\text{Ca}+^{208}\text{Pb}$  system: Recovery PRISMA + AGATA 20'**

Speaker: T. Mijatovic

15:20 **Lifetime measurements in the octupole bands of  $^{220}\text{Ra}$  20'**

Speaker: M. Polettini

15:40 **Conclusions and general discussion 40'**