



# AGATA Campaign at LNL

## Fifth Pre-PAC Workshop

including a special session  
on physics opportunities with uranium beams

LNL, May 13<sup>th</sup>-14<sup>th</sup>, 2024

### First Circular

Dear Colleagues,

We are pleased to announce the fifth Pre-PAC Workshop for the AGATA physics campaign at LNL. It will take place on May 13<sup>th</sup> -14<sup>th</sup>, 2024 at the Legnaro National Laboratories and is planned to be held in person.

The forthcoming LNL PAC meeting is planned for July 2024, and will evaluate experiments to be performed in the second half of 2024. During this period, only **beams from the TANDEM accelerator will be available** at LNL, and AGATA is expected to consist of a minimum of 15 triple clusters ( $1\pi$  solid angle coverage).

The aim of the Pre-PAC Workshop is to **assist the spokespersons in putting the strongest cases for their proposals forward through a discussion of the physics to be investigated, and to assess the feasibility of the proposed experiments**. This includes all experiments planning to use stable beams from the TANDEM accelerator for studies involving AGATA in a possible combination with PRISMA and/or ancillary detectors that are compatible with PRISMA. Any new projects will have to be presented at this workshop before being submitted to the LNL PAC. In most cases, we will not expect presentations of the projects that have already been discussed at the previous Pre-PAC Workshops. If, however, a new project shows a considerable overlap with a previously discussed project of a different group, both parties will be informed and encouraged to participate in the upcoming Workshop.

Following suggestions from the community, we are planning to include in the workshop a **special session dedicated to future experimental projects that will make use of  $^{238}\text{U}$  beams** from the PIAVE-ALPI complex, which are currently being developed at LNL. The experiments involving these beams will conclude the physics campaign of AGATA in the PRISMA configuration. The maximum energy of the uranium beam will be 7,2 MeV/u with a maximum current of 1 pA.

Further details will be given in the Second Circular in early March 2024.

You are welcome to **submit Letters of Intent (Lols) for AGATA in configuration with PRISMA and TANDEM beams, as well for future projects involving uranium beams,**

via the link: <https://agenda.infn.it/event/39886/> with a deadline of April 22<sup>nd</sup>, 2024. They are expected to include, in a pdf file, a title, short abstract with a description of the physics case and the experimental setup, information on beam (energy, intensity), target(s), and the justified request of beam time.

The information about the duration of the talks will be given in the Second Circular.

We warmly recommend the Lol spokespersons to contact as soon as possible the experts of the complementary equipment they intend to use. These contact persons are:

- PRISMA : L. Corradi, F. Galtarossa
- SAURON : M. Balogh, E. Pilotto
- GAL-TRACE : S. Capra
- EUCLIDES: J. Pellumaj, D. Brugnara
- SPIDER: N. Marchini, M. Balogh
- DANTE: K. Rezynekina, S. Pigliapoco
- Gamma-ray scintillators: S. Pigliapoco, A. Giaz
- Plunger: M. Poletti, F. Angelini

## REGISTRATION

Participants are invited to register at the Workshops webpage:  
<https://agenda.infn.it/event/39886/>

**The deadline for registration is April 12<sup>th</sup>, 2024.**

## IMPORTANT DEADLINES

- Lol submission: April 22<sup>nd</sup>, 2024

- Registration: April 12<sup>th</sup>, 2024.

## WEB PAGE

Updated information on the Workshops can be found at their web page:  
<https://agenda.infn.it/event/39886/>

Do not hesitate to contact us for any further information.

Looking forward to seeing you at LNL,

With best regards,

Magda Zielińska and Jose Javier Valiente Dobón