



AGATA Campaign at LNL

Third Pre-PAC Workshop and Zero-Degree Campaign Workshop

LNL, April 19th-21st, 2023

First Circular

Dear Colleagues,

We are pleased to announce the first Zero-Degree Campaign workshop and the third Pre-PAC Workshop for the AGATA physics campaign at LNL. The Zero-Degree Campaign Workshop will take place on April 19th at LNL and will be followed by the third Pre-PAC Workshop on April 20-21st, 2023.

The forthcoming LNL PAC meeting is scheduled for July 10-12th, 2023, and will evaluate experiments to be performed in the second half of 2023. 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 (1π 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.

The Pre-PAC Workshop will be preceded by a **one-day meeting** devoted to the discussion of a future campaign involving **AGATA at zero degrees** (NIM A1049, 168040 (2023). <https://agenda.infn.it/event/34322/attachments/101184/141249/NIMA1049.pdf>), held on April 19th, 2023.

For this campaign, we expect that beams from the entire TANDEM-ALPI-PIAVE complex will be available (please consult the LNL website for their list: https://agenda.infn.it/event/34322/attachments/101184/140912/tandem_piave_alpi_beams_agata.pdf). In the coming weeks, we will also provide preliminary information about Day-One SPES beams, which could be used in experiments with AGATA at zero degrees.

Both meetings are planned to be held in-person at LNL. Further details will be given in the Second Circular in March 2022.

You are welcome to **submit Letters of Intent (Lols) for both above-mentioned AGATA setups (AGATA in configuration with PRISMA and TANDEM beams and AGATA at Zero Degrees with TANDEM-ALPI-PIAVE and SPES Day-One beams) via the link: <https://agenda.infn.it/event/34322/abstracts/>, with a deadline of April 5th, 2023.** They are expected to include, in a pdf file, a title, short abstract with a description of the physics case and the experimental setup. For the Lols submitted to the Pre-PAC, also information on beam (energy, intensity), target(s), and the justified request of beam time are required.

All spokespersons will be invited to present their proposals at the Workshops. 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
- GAL-TRACE : S. Capra, G. Zhang
- EUCLIDES: J. Pellumaj, D. Brugnara
- SPIDER: M. Rocchini, M. Balogh
- DANTE: K. Rezynekina
- Gamma-ray scintillators: E. Gamba, S. Pigliapoco
- Plunger: I. Zanon

REGISTRATION

Participants are invited to register at the Workshops webpage:
<https://agenda.infn.it/event/34322/registrations/3499/>

The deadline for registration is April 12th, 2023.

IMPORTANT DEADLINES

- Lol submission: April 5th, 2023

- Registration: April 12th, 2023.

WEB PAGE

Updated information on the Workshops can be found at their web page:

<https://agenda.infn.it/event/34322/>

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