**AGATA Collaboration Council**

Legnaro, 10th June 2022

**In attendance (in site):**

Silvia Leoni (Milano, Chairperson), A. Bracco (Milano, ASC Chair), F. Didierjan (Stasbourg), B. Fornal (sub. A. Maj, Krakow), A. Gadea (Valencia), J. Ljungvall (Orsay), B. Million (Milano), A. Nannini (Florence), P. Napiorkowsky (sub. K. Rusek, Warsaw), D. Napoli (Legnaro, also sub. S. Lenzi, Padova), P. Reiter (Cologne), M. Zielinska (sub. W. Korten, CEA, Saclay)

**In attendance (remote):**

J. Simpson (Daresbury), B. Cederwall (KTH, Stockholm), A. Boston (sub. H. Boston, Liverpool, UK), J. Pakarinen (Jyväskylä), S. Freeman (Manchester), J. Vesic (Ljubljana), J. Nyberg (Uppsala), M.D. Monasterio (Stockholm), M. Yavahchova (INRNE, Bulgaria), N. Redon (Lyon), M. Senyigit (Ankara), D. Sohler (sub. J. Timar (Atomki), Z. Podolyak (Surrey), J. Smith (West Scotland)

**Apologies for absence**

A. Bruce (Brighton, UK), E. Clement (GANIL), N. Marginean (IFIN-HH), N. Pietralla (TU, Darmstadt)

SL chaired the meeting and presented a set of slides that can be found here:

[ACC-Report-CLOSED](https://agenda.infn.it/event/30927/sessions/23221/attachments/92613/126125/ACC-CLOSED-LEONI-June22.pdf)

The minutes were written by SL.

**Agenda of the meeting**

1. Report from ACC (Silvia Leoni)
2. Report from ASC (Angela Bracco)
3. Report from AMB (Andrés Gadea)
4. General discussion

**1) Report from ACC (Silvia Leoni)**

Key points:

* ACC Membership

SL showed an update of the present ACC membership, comprising 13 countries and 40 institutions, including Slovenia and Romania as observers.

* Current AGATA Collaboration and ACC Meetings

Close to 80 participants attended the 11th AGATA collaboration meeting, on June 10th 2022 (<https://agenda.infn.it/event/30927/>) in mixed mode (in presence and remote).

Five talks were given as status reports of experiments performed during the GANIL campaign (3 talks from the last campaign of 2021 (E793S,E729,E766), 2 talks on additional results from experiments performed in 2015(E680,E664)). All precedent GANIL experiments (with unpublished results) were reported at the previous AGATA Collaboration meeting, held six months ago on 10-12th November 2021 at LNL (https://agenda.infn.it/event/27358/).

A short talk was then given by M. Zielinska (Spokesperson of the AGATA campaign at Legnaro), who reminded the large number of LoIs (34) for experiments with AGATA@LNL, presented at the first Pre-PAC Workshop of 8-10th October 2021 (more than 100 participants, <https://agenda.infn.it/event/26966/>). At the Pre-PAC, the AGATA collaboration was encouraged to submit joint proposals, if possible, to the PAC. As a results, 28 proposals were submitted to the PAC of February 2022, out of which 10 experiments were approved as priority A (including 3 commissioning runs), and 5 as priority B. In view of the second PAC of 2022 (5-7th December), a pre-PAC workshop will be held at LNL on 5-7th October 2022 (<https://agenda.infn.it/event/31038/>).

The AGATA campaign officially started on 28th April 2022 and first online results were briefly shown by Magda Zielinska. It was reminded that the experiment spokespersons and the AGATA collaboration are requested to provide supports to the experimental campaigns, in particular sending students and post-docs well in advanced, for training on site, including nearline analyses.

The present AGATA Collaboration meeting followed the 22nd AGATA week which was held at LNL 7-9th June, 2022 (<https://agenda.infn.it/event/30320/>), with 121 registered participants. In the afternoon of June 9th, a celebration was organized for the **10(+2) years of science activities of AGATA.** The main presentation was given by J. Simpson (former Chair of the ASC), with the title “The AGATA Spectrometer Over 10 Years of success”. A video of the meeting and a slide show can be found at the event web page (<https://agenda.infn.it/event/30956/>).

The present ACC meeting takes place at Legnaro National Laboratory on June 10th 2022, at the end of the 11th AGATA Collaboration meeting.

Both the present and the precedent AGATA Collaboration and ACC meetings were held in Legnaro, after the Pre-PAC Workshop (October 2021) and now at the end of the AGATA week (June 2022). The collaboration should decide a place for the next AGATA collaboration meeting, in 2023. An option could be to organize the meeting in connection with a Workshop on Nuclear Structure, for example with the EUROLAB program.

* Promotion of AGATA Science

SL reminds that the AGATA web page (<https://www.agata.org/>) is fully updated and contains entire list of science and technical papers, theses, selected talks, ... information on data and publication policy, organigrams of various committees over the years, history of meetings, ...

Spokespersons of AGATA experiments are requested to notify the ACC chair about publications and theses related to AGATA, to keep updated the web page.

In 2020, the AGATA white book was published in EPJA and used to support the new MoU preparation (Physics opportunities with the Advanced Gamma Tracking Array: AGATA, W. Korten et al., EPJA56, 137(2020)).

In 2021, the AGATA collaboration has been invited to publish in EPJA a Topical Issue on AGATA: *Advancements on Science and Technology*, with Managing Editors M. Borge and N. Alamanos, Guest Editors: S. Leoni (ACC chair), W. Korten (former ACC chair), E. Clément (AMB chair), A. Gadea (former AMB chair), A. Bracco (ASC chair), J. Simpson (former ASC chair).

The issue should be submitted by the end of 2022. It will be organized in 3 chapters: *1) Science advancements with AGATA* (6 contributed papers), *2) technical advancements with AGATA* (3 contributed papers), *3) performances of AGATA* (4 contributed papers). Lead authors have been appointed for the various contributions, working groups have been formed and are currently working.

* AGATA Core list for LNL

The AGATA core list for the present LNL campaign has been collated by the ASC, following propositions for core list members given by the country representatives. The core list has been implemented by J. Nyberg in the AGATA site and the collaboration is ready to sign publications of AGATA from the LNL campaign. Future modifications to the core list are possible, ASC and ACC should be contacted.

* Data Management plan for AGATA

Following the presentation by O. Stezowski during the AGATA week, the AGATA collaboration has to define a DATA Management Plan to make AGATA data open access (it will be requested at various levels: European call, funding agencies, etc...). A dedicated Data Processing Group has been setup and lead by O. Stezowki, to work on this task. Detailed documentation is being prepared and first information about possible strategies can be found at the following links:

* [Critical Analysis of AGATA way to manage data](https://atrium.in2p3.fr/nuxeo/nxdoc/default/d9de1906-51be-4cec-92b0-6867fd483f68/view_documents);
* [First Data Management Plan](https://atrium.in2p3.fr/nuxeo/nxdoc/default/d39870b6-77c5-4634-8d9b-5b1b0381a77e/view_documents);
* [Detailed Talk presented at the previous ACC in 2021](https://agenda.infn.it/event/27358/contributions/146255/attachments/86215/114714/Stezowski-AGATA_DMP_10_11_2021.pdf);

After summer, SL will call for a kick-off meeting with ACC members to start the discussion for defining the strategy of AGATA for Data Management.

**2) Report from ASC (Angela Bracco)**

Presentation received from Angela Bracco. Slides can be found here:

[ASC-Report-CLOSED](https://agenda.infn.it/event/30927/sessions/23221/attachments/92613/126126/ANGELA-BRACCO-Per_ACC_10_june.pdf)

Key points:

* Most recent meeting: 31st March 2021, on zoom, chaired by J. Simpson.

A. Bracco will start chairing from the next ASC meeting, with Ch. Theisen as vice Chair. The next ASC meeting will be held in Milano on 12-13th October;

* The MoU for AGATA Phase 2 has been signed by 11 countries (out of 14 parties) and it is now operational. It defines the fund investments for the period 2021-2030, which will bring AGATA to 3pi, on the way to the final upgrade to 4pi;
* The AGATA Resource Review Board (ARRB) has been established, comprising one representative at least for each Parties that are contributing to the AGATA project. It will monitor the general finances and human resources of the AGATA project.

The first meeting of the ARRB was held (remote) on 2nd March 2022, and Rosario Nania (INFN, Italy) was elected as Chair. The next meeting (date to be defined) will be held after the October ASC meeting;

* Within the AGATA community, an application has been made to the EU call EUROTECH, with Paul Greenlees taking the lead. The project is called IMATRA (IMAging and TRAcking of radiation for science and society leading the application) for a total cost of 10 MEuros. It concerns Ge development (new contact developments), alternative technologies (scintillators R&D; meta-scintillators), performance enhancement (digital ASIC cold preamplifier, gamma-ray imaging, pulse processing, detector intelligence, AI from detector level to global system, ...), training and knowledge transfer (training to industries, research getting training from industry, technology transfer, skills enhancement via hands-on schools, ...).

14 institutions and some companies are involved.

* At the next ASC in October 2022, a decision should be taken on the operation site of AGATA after 2024. A possibility is to extend the operation of AGATA at LNL in order to exploit the accelerated SPES beams, which will start to be available in 2024. The collaboration is requested to express an opinion on this point, taking also into account the new timeline for FAIR, the next planned AGATA site. Because of the international situation mainly related to the war in Ukraine, the early start of the science activity for AGATA at FAIR is now postponed to 2027.

**Questions & comments on ASC report**

The collaboration congratulates with John Simpson (former ASC Chair) for the dedication and excellent work done as former Chair of the AGATA Steering Committee, particularly in connection with the successful conduction of the new MoU preparation and finalization.

The community feels that it is important to discuss locally about the location of AGATA after 2024. A survey will be made within the ACC members after summer in order to provide inputs to the ASC before the meeting of October 2022, when a decision should be formally taken.

**3) Report from AMB (A. Gadea for E. Clément)**

Presentation received from E. Clément (AGATA Project Manager).

Slides were already presented at the end of the AGATA week on 9th June, afternoon, and can be found here:

[AMB-Report-CLOSED](https://agenda.infn.it/event/30927/sessions/23221/attachments/92613/126127/1_-PM-report-AGATA-Week-2022.pdf)

Key points:

* Congratulations for AGATA transfer, installation and first data taking;
* A new phase of the project has started: Phase 2, founded by MoU (2021-2030). It aims at acquiring 78 Asymmetric segmented HPGe capsules (3available for experiments), and related electronics, software, infrastructure ...

The project plan is already conceived technically for a 4p array;

Continuous R&D is needed, not included in MoU;

* Detectors procurement represents ~ 80% of the AGATA Core budget. Coordinated effort is ongoing to concentrate the capsules purchase and mitigate European inflation effect. The collaboration is in good relation with the provider MIRION;
* AGATA became Research Infrastructure in France (same level of LHC, JUNO, etc...);
* The IMATRA project (P. Greenlees as PI) has been submitted to the Horizon 2020 INFRATECH call. The INFRATECH initiative will be the seed for the R&D phase of the next decade in AGATA;
* The EURO-LABS bid (TNA access to laboratories) has been approved in January 2022.

**AOB**

No particular subject.