

Minutes from the GUEC meeting held on zoom Tuesday, 1.12.2021, 9:00 – 11:00

Participants:

Silvia Leoni (SL,chair), Emmanuel Clément (EC), Maria Colonna (MC), Andreas Görgen (AG), Antoine Lemasson (AL), Adam Maj (AM), Marika Schleberger (MS);

Absent: Navin Alahari (NA), Heloïse Goutte (HG), Marlene Assie (MA).

Agenda of the meeting:

1. News from GANIL (Clement)
2. Discussion after Colloque GANIL (ALL)
3. Actions for next year 2022 (ALL)
4. Organization of election for next GUEC
5. AOB, next meeting

Minutes:

1. **News from GANIL.** Emmanuel Clement informed the committee about the status of the GANIL experimental campaigns during 2021, which ran smoothly. Few main points are as follows:
 - The AGATA gamma-ray tracking spectrometer officially closed the GANIL activities at the beginning of July, after performing the two last experiments with the array coupled to VAMOS. AGATA was dismantled and transported to INFN-Legnaro at beginning of September for future campaigns.
 - Experimental activities with the LINAC and NFS continued in the second half of 2021. In July, a beam of alpha particles was successfully tuned to a nominal energy of 40 MeV through the LINAC. A 5 mA deuteron beam was then produced and a power of 10kW was reached in November. On September 2021, a beam of $\sim 47 \mu\text{A}$ deuterons was produced for the first time, with the injector operating at its maximum power and a bunch selector accepting 1 out of every 100 beam pulses. This marks the completion of the commissioning of the LINAC and the beginning of routine operation for experiments with deuteron and other beams at NFS.
 - At NFS, since September 2021, four experiments and two test experiments approved by the PAC have already been successfully performed using a variety of setups for i) light charged particles cross section measurements in neutron-induced reactions (e.g., MENDLEY, SCLAP), ii) ^{238}U cross section measurements (e.g., SCONE), iii) measurements of production of short-lived isotopes in proton-induced reactions on Fe using the Fast rabbit setup, iv) test experiments using $(n,n'g)$ to study the pygmy dipole resonance using a part of the PARIS and Monster detector arrays and (n,xng) to study nuclear structure for nuclear energy applications.
 - On December 9th, the GANIL Program Advisory Committee (PAC) will be meeting remotely to give recommendations for experimental campaigns to be performed in 2023.

Parallel operation of the cyclotrons and LINAC is not foreseen in 2022 because of construction work related to fire protection.

- At present, no specific experimental campaigns are planned for 2024. This will be matter of discussion at the next GANIL Scientific Council and during the GANIL Community Meeting of October 2022.

Maria Colonna also briefly informed about the status of EURO-LABS proposal which was submitted on 23rd September 2021. Results are expected in January 2022. If the outcome is positive, a grant agreement could be signed by 22nd May 2022 and the scientific program could start in June.

2. **Discussion after Colloque GANIL.** The Colloque GANIL 2021 was held in Autrans Meandre en Vercors in September 2021 (<https://ganil2021.sciencesconf.org>). The meeting ran very smoothly, with more than 100 participants and a large fraction of young attendees. The scientific level was recognized to be very high, with lively discussions during the talks.

The GANIL Thesis Award was assigned during the meeting to V. Girard-Alcindor (GANIL, IJClab Université Paris-Saclay) for an experimental work on unbound states in ¹⁵F, performed with the AGATA-VAMOS-MUGAST setup.

Concerning the GUEC session at Colloque GANIL, the general impression was good, with stimulating discussions in particular on the synergy between theory and experiments and on possibilities to further strengthen the collaborations. The importance of the organization of dedicated workshops for future physics campaigns (with NFS, for example) was underlined.

The GUEC illustrated various actions undertaken in the last two-years to make the Users community aware and involved in future plans for GANIL. GUEC members expressed their concern about lack of feedback and encouraged the GANIL users to engage the committee more actively. More frequent Interactions with management were also considered important to keep the community alerted and involved in decisions concerning scientific activities of the laboratory. This is considered an important point of discussion with the new management.

3. **Actions for 2022.**

- A meeting with the new management was considered of high priority, with a date to be fixed in January/February at the earliest convenience;
- Upcoming workshops on future campaigns with NFS, VAMOS, ... were anticipated by Clement and Lemasson, to be announced in Spring 2022;
- Urgent actions were requested for defining dates and organization of the GANIL Community Meeting (GCM) of Autumn 2022. During the GCM meeting presentations from recent data taking from NFS, etc ... are expected. Collaborations will be asked to give their vision for experimental activities in 2024-2025, including possible detector arrangements at various GANIL facilities. It was proposed that GUEC could meet in advance the Spokespersons of various instruments in a restricted meeting, to stimulate discussions and plans to be

reported at the GANIL Community Meeting. Such a restricted meeting should take place in the first half of 2022.

4. **Organization of election for the next GUEC.** In Spring 2022, preparation for the election of the next GUEC should be organized. This point should be closely discussed with the new management, also in connection with possible changes in the GUEC member composition (the number could be increased). Advises on this point could also be given by the GANIL Scientific Council.
5. **AOB.** A doodle will be set up for finding a date for the next GUEC meeting in January/February. It is considered of high importance to have both the old and new management joining the meeting, to make most constructive plans for future activities at GANIL.

Silvia Leoni closed by thanking all participants for the constructive meeting.