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D5.2 – Annual international conferences for GANIL users

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LIST OF ACRONYMS AND ABBREVIATIONS

GANIL	Grand Accélérateur National d’Ions Lourds, i.e. Large National Heavy Ion Accelerator
IPAC	International Particle Accelerator Conference
SPIRAL	Système de Production d’Ions RAdioactifs en Ligne, i.e. Inline Radioactive Ion Production System
CNRS	Centre National de la Recherche Scientifique, i.e. National Center for Scientific Research
CEA	Commissariat à l’énergie atomique et aux énergies alternatives, i.e. French Alternative Energies and Atomic Energy Commission
SOLEIL	Source Optimisée de Lumière d’Énergie Intermédiaire du Lure, i.e. Lure Optimized Intermediate Energy Light Source
ESRF	European Synchrotron Radiation Facility
GUEC	GANIL Users Executive Committee

EXECUTIVE SUMMARY

Five international conferences were organized by GANIL with a strong support of the IDEAAL project from 2017 to 2020 to gather its scientific community: two GANIL Colloques, one GANIL community meeting, one EURORIB conference and one IPAC Conference. Each conference was organized in order to allow the community to meet and interact with European and International laboratories.

INTRODUCTION

Conferences are a place for exchange, scientific communication and emulation, which are essential for the scientific community. As a major research infrastructure, GANIL must regularly bring its user community together to report on its research, R&D and long-term projects.

GANIL COLLOQUES

The purpose of this conference is to review and discuss the research carried out at GANIL and the related activities carried out at similar facilities around the world. Traditionally, the Colloque covers the following range of topics addressed at GANIL:

- Nuclear Structure
- Nuclear Dynamics
- Nuclear Astrophysics
- Fundamental Interactions
- Interdisciplinary research
- Related theoretical developments
- Applications
- Instrumentation and Technical developments



The 20th Colloque GANIL took place from October 15th to 20th 2017 in Amboise, France with 136 attendees. Two years later the 21th Colloque GANIL was organized in Strasbourg, France, from September 9th to 13th 2019 with 123 attendees.

<https://ganilcolloque.sciencesconf.org/>
<https://21colloqueganil.sciencesconf.org/>

GANIL COMMUNITY MEETING



The 1st GANIL Community Meeting took place from October 8th to 12th 2018 in the “Musée des Beaux Art” of Caen, France with 104 attendees.

The purpose of the meeting is to bring together the whole GANIL community to discuss and define coherently the future research programs for GANIL. Several presentations were organized to review both the intended experimental and theoretical programs related to GANIL covering the main topics as follows:

- Study of the $N \sim Z$ nuclei
- Nuclear structure at the shells closures
- Nuclear dynamics
- Study of Heavy Elements ($Z > 92$)
- Application to the Nuclear Astrophysics
- Atomic Physic
- Giant collective modes
- Phenomena at the particle threshold
- Fundamental interactions

An overview of the status of the infrastructures (accelerators, spectrometers and instrumentation) was also given.

For every physics topic, a set of presentations was organized addressing:

- Open questions in the field
- SPIRAL2 Phase1 physics program
- Cyclotrons/SPIRAL1 physics program
- Challenges for nuclear physics theory (where applicable)

These presentations, resulting from the in-depth review work of a group of experts, covered the state-of-the-art of the field and the physics programs to be developed in the upcoming 5-year time period. Together with the users, these will serve to trigger discussion to establish GANIL’s experimental program, the related theoretical research and the corresponding calls for proposals.

A poster session was also organized.

The GANIL Users Executive Committee (GUEC) organized open and closed sessions to discuss the purpose and organization of the GANIL User Group to make it an efficient representation of the community.

<https://gcm2018.sciencesconf.org/>

EURORIB 2018

The conference is jointly organized by the main Radioactive Ion Beam (RIB) facilities in Europe, presently engaged in the major upgrades HIE-ISOLDE@CERN, NUSTAR@FAIR, SPES@LNL and SPIRAL2@GANIL with the long-term goal of EURISOL. The collaborations built around these facilities are exploring new experimental and theoretical ideas that will advance the understanding of nuclear structure and reactions as well as nuclear astrophysics through studies of exotic nuclei.

Following the spirit of the conferences held in Giens (2008), Lamoura (2010), Abano Terme (2012) and Hohenroda (2015) the EURORIB 2018 provided the opportunity for the scientific community and different collaborations to come together and present new ideas, and explore the synergies between the research programs based around the different accelerator projects.

The main topics discussed at the conference were:

- 1) Future RIB facilities
- 2) At and beyond the dripline and new modes of radioactivity
- 3) Nuclear structure far from stability and hypernuclei
- 4) Transuranium nuclei
- 5) Dynamics and Thermodynamics of exotic nuclear systems
- 6) Direct Reactions with radioactive beams
- 7) Nuclear astrophysics
- 8) Fundamental interactions
- 9) Applications to other fields
- 10) Instrumentation, electronics and data acquisition systems
- 11) Production and manipulation of RIB

This year the conference took place from May 27th to June 1st 2018 in Giens, France. 105 delegates were attending.

<https://eurorib2018.sciencesconf.org/>

IPAC'20

The 11th International Particle Accelerator Conference, was hosted by the GANIL/SPIRAL2 laboratory and supported by the global French accelerator community (CNRS, CEA, SOLEIL and ESRF).

IPAC is the main international event for the worldwide accelerator community and industry. Attendees presented advanced accelerator research and development results and gain the latest insights into accelerator facilities across the globe.

Traditionally, over 1000 attendees and 70 industry exhibits are expected during this event, giving a unique opportunity to network with, learn from and meet a wide range of decision makers, opinion leaders, buyers and newcomers to the field.

During IPAC'20, it was the opportunity to meet and interact with accelerator scientists, engineers, students, and industrials.

IPAC'20 would have been normally taken place on 10th -15th May 2020 in the beautiful Caen in France. Finally, due to unforeseen circumstances (COVID-19 pandemic) the conference turned to a virtual format from 10th -14th May 2020 with up to 3,000 registered people, 77 virtual presentations and a live closing session.

<https://www.ipac20.org/>

CONCLUSION

The five international conferences organized by GANIL between 2017 and 2020 brought the community together around central themes of the discipline. By allowing time for exchanges and discussions over several consecutive days, these events are a central element of communication between researchers and allow GANIL to federate its community.

These events allowed to the community to exchange with foreign scientists and physicists about advanced researches coming from all over the world. Allowing in the same time to promote the GANIL facility abroad. The financial and administrative support of the IDEAAL project was essential for the success of all organized conferences. The organization of the major international conferences comforted the GANIL's place of the major nuclear physics ESFRI infrastructure in Europe and in the world. The events allowed to attract to the facility new users and future partners.