

Welcome to CREF

**for the Meetings of WG9, C12, and
Nuclear Science Symposium**

Rome 15-16 April 2026

Angela Bracco

THE RESEARCH at CREF

Complexity

Applied Research

Basic Research

Museum

**The legacy
of Enrico
Fermi**

Intertwining past and future (the new has its history)

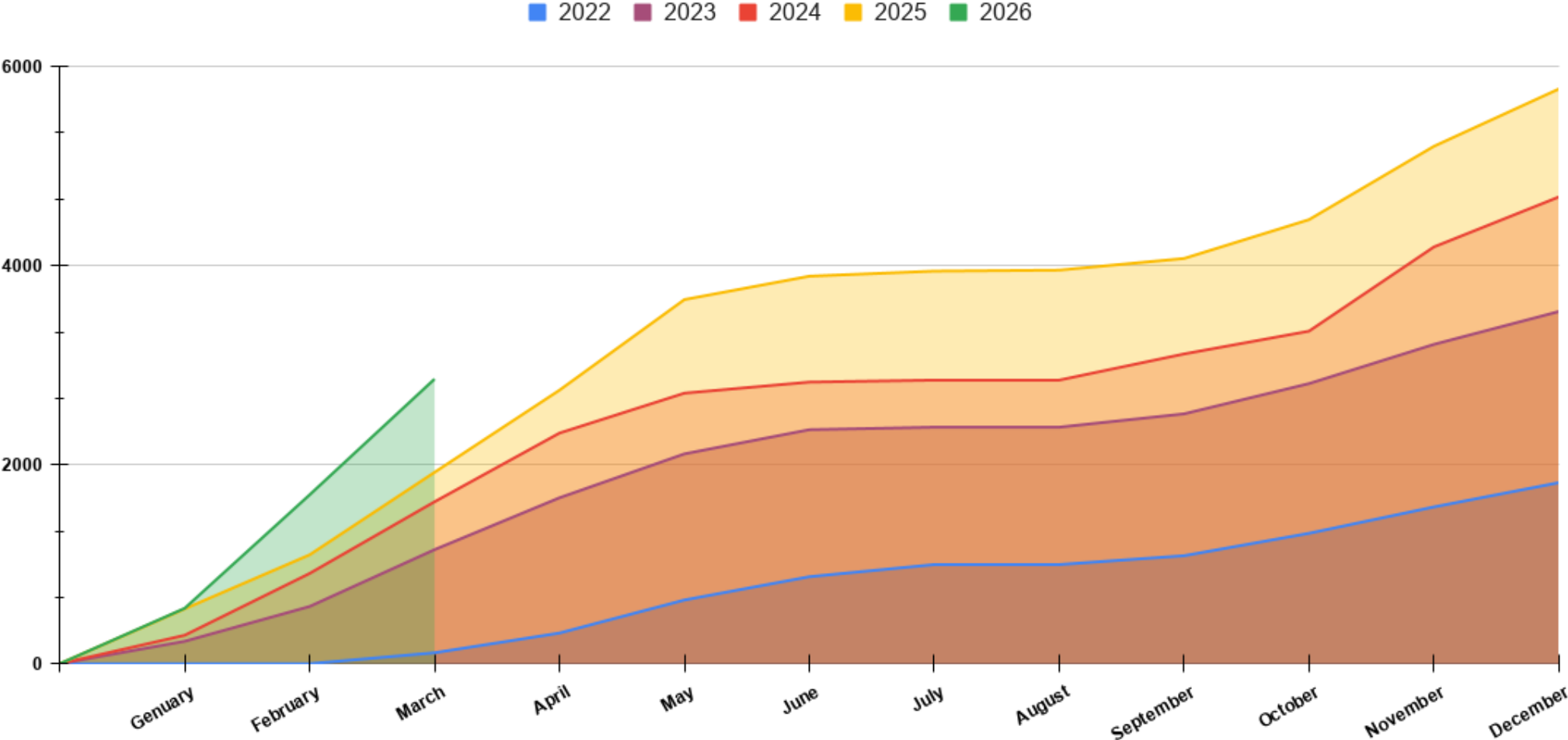
The museum provides a narrative that, starting from historical memory, projects toward the future.



Special focus on:
Fermi-Dirac Statistics
Beta Decay Theory
Slow Neutrons and Induced Radioactivity
(CP1 – nuclear reactor + Manhattan Project)

A GROWING REALITY: THE MUSEUM

Fermi Museum visitors attendance



24 Researchers

6 Laboratories

*21 Postdoctoral
positions and
Fellowships*

12 Ph.D Students

*7 Administrative
Employees*

3 Technicians

*104 associated from
other institutions*

International

Scientific committee

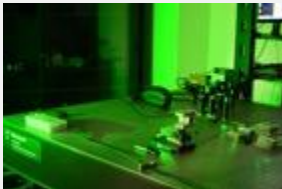
(chair Maria Borge)



- Complexity in natural and social science, and in economics
- The impact of AI on technological innovation
- Climate change



- Neuroscience and quantitative neuro imaging (MRI at Santa Lucia)
- Radio and hadrontherapy
- Cultural heritage



- Photonic Technologies and artificial intelligence
- Cosmic ray detection : Extreme energy events
- Tests of quantum mechanic principles



- Research on History of physics
- Outreach and diffusion of culture
- International Networking with other museums



- **The restoration** of the currently unusable part of the building (with an area approximately the same as the one in use today) is about to start.
We finally have all the permits to carry out the restoration work.
- To have available to whole building **will offer excellent opportunities** to expand the museum, to strengthen research and open new directions in other multidisciplinary fields (e.g. contribution to energy research).

Report of WG9 2025

IUPAP WG9 webpage: <https://wg9.triumf.ca/>

Background

The IUPAP working group WG9 is an ad-hoc Committee on International Cooperation in Nuclear Physics (CICNP) that was proposed by the Commission C12 in 2003 and established in the IUPAP General Assembly in 2005. The initial membership of WG9 included the Chair and Vice-Chair of C12, as well as the Chairs of NSAC and NuPECC and representatives of key laboratories from around the world. Considerable care was also paid to the geographic distribution of members, in order to ensure appropriate representation from the broad nuclear physics community.

The formation of this committee had been a topic of discussion within C12 since 1995 and perhaps even earlier. It was created to facilitate international cooperation within the nuclear physics community following the recommendations of the various committees that preceded it. The main objectives of WG9 are:

- To promote international cooperation in the broadest sense with the construction and exploitation of the large nuclear physics facilities - those which are intended for use by a worldwide nuclear physics community.

Report of our WG9
Activity submitted
last June

May 28th, 2025

This is a letter on behalf of IUPAP C12 Commission endorsing the document prepared by WG9 describing their mandate, activities and future plans.

The document was distributed among the C12 members and presented in the joint session of WG9-C12 that took place in Daejeon, Korea on Wednesday 28th of May 2025 during our flagship Conference INPC 2025.

The document was also discussed in the close session of C12 later on the same day. We consider the activities of WG9 very beneficial for the nuclear physics community at large due to the important information presented by the Nuclear Facility Directors which are members of WG9. This help in the planification of future activities, foster the international collaboration and enhance the coordination and exchange of knowledge.

A good proof that reflects these activities that are all connected to their mandate is the preparation of Report 41 by WG9 which last update has been recently released in September 2023. Report 41, which is regularly updated is a compilation of all basic user nuclear physics facilities in the World It that includes 79 facilities located from Australia till South America. The C12 sponsored half of the printed copies of the update version of the document.

We are concerned with announcement of discontinuation of this working group that along the recent years has worked hand in hand with C12 for mutual benefit.

Therefore, we members of C12 unanimously strongly support their future activities and continuation as part of IUPAP in whatever structure is globally consider more appropriate by the Executive Council.

As chair I sign on behalf of C12 and I hope the situation is solved for the benefit of the community. Best regards



Maria Jose Garcia Borge
Prof of Research, IEM-CSIC, Madrid, Spain
Chair of C12 of IUPAP
Managing Editor for reviews and Topical Collections of EPJA

After our meeting in South Korea last year

A support of a continuation of WG9 or a specific committee within the rejuvenation of IUPAP following the evaluation

IUPAP Working Groups

WG1 (ICFA), WG7 (ICUIL), WG9 (ICNP), WG11 (GWIC)

These WGs and the proposed WG on Neutron Research Facilities (submitted by the US LC for the consideration of the 33rd IUPAP General Assembly) are venues where the people in charge of different types of research facilities/ infrastructure get together and discuss their future. **It is proposed that these WGs be transformed into Standing Committees** under Commissions and that, if the proposal to create a structure on Neutron Research Facilities is approved, that this structure be a Standing Committee under a Commission as well. For more details on this new type of structure, please look at the Resolutions that are being presented for the consideration of the 34th IUPAP GA and the changes that are proposed to be introduced in IUPAP's Articles and Regulations.

Executive Council & Commission Chairs meetings, October 28, 29 and 30 from 2pm to 5pm

Dear Silvine,

Thank you very much for the mail. For WG9 to become a Standing Committee in this rejuvenation process is a very good solution and we are satisfied about it. We will be connected with C12 (Maria Borge the chair of C12 is in cc). We had a long standing collaboration with C12 and this will be reinforced in the future.

Please let us know when we have then to submit officially our term of reference. The basic principles were already drafted in the report I sent to you last May.

With my best regards

Angela Bracco

Chair of WG9

Article 8 Commissions, Working Groups and Standing Committees

C. The “**Working Groups**” and “**Standing Committees**” contribute to the achievements of the aims of IUPAP, not covered by Commissions. Standing Committees work under the umbrella of one or more Commissions or under a Vice President at Large.

D. The Working Groups and Standing Committee members are elected according to procedures specified in the Internal Regulations.

Next steps:

- Presentation of our ToR at the GA this year
- Official starting of the Standing Committee at the GA in fall 2027 taking place in South Africa

In the afternoon we will discuss the ToR
(Draft distributed by Iris Dillmann in the previous days)

Election of the new chair