

Minutes
of the Hundred-fourth Meeting of the
Nuclear Physics European Collaboration Committee (NuPECC)
held in Vienna on December 1 and 2, 2022

Participants:

Gert **Aarts**
Sotirios **Charisopoulos**
Paolo **Giubellino** (FAIR)
Andreas **Görgen**
Paul **Greenlees**
Karl **Jakobs** (ECFA)
Gabriele - Elisabeth **Körner** (Scientific Secretary)
Marek **Lewitowicz** (Chair)
Adam **Maj**
Nicolae **Marginean**
Eugenio **Nappi**
Lucia **Popescu** (MYRRHA)
Patricia **Roussel-Chomaz** (SPIRAL2)
Danas **Ridikas** (IAEA),
Eugenio **Scapparone** (EPS)
Itzhak **Tserruya** (Israel)
Martin **Venhardt**
Jelena **Vesić**
Vladimír **Wagner**
Eberhard **Widmann** (Deputy Chair)
György **Wolf**

Remote: Daniel **Bemmerer**, Sandrine **Courtin**, Gail **Dodge** (NSAC), Jens Jørgen **Gaardhøje**, Joaquin **Gomez Camacho**, David **Ireland**, Rituparna **Kanungo** (CINP), Yvonne **Leifels**, Weiping **Liu** (ANPhA), Ulf G. **Meißner**, Joachim **Mnich** (CERN), Dirk **Rudolph**, Hiroyoshi **Sakurai** (RIKEN), and Nicolas **Walter** (ESF).

Guest: Paraskevi **Dimitriou** and Barbara **Erazmus**

Indico: <https://indico.ph.tum.de/event/7136/> (nupecc_vie)

Agenda

1. Approval of agenda
2. Apologies for absence
3. Minutes of previous meeting
4. Chair's Business (Marek Lewitowicz)
5. NuPECC LRP 2024 (Marek Lewitowicz)
6. CERN (Joachim Mnich)
7. NSAC (Gail Dodge)
8. ANPhA (Weiping Liu)
9. Status Report STRONG2020 (Barbara Erazmus)
10. News from Israel (Itzhak Tserruya)
11. News from ELI-NP (Nicolae Marginean)
12. News from MYRRHA (Lucia Popescu)
13. News from GANIL-SPIRAL2 (Patricia Roussel-Chomaz)
14. News from FAIR (Paolo Giubellino)
15. Nuclear Data (Paraskevi Dimitriou)
16. News from ESF (Nicolas Walter)
17. News from ECT* (Gert Aarts)
18. NuPECC Budget 2022 (Paul Greenlees)
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20. Place, time and topics of the Meetings in 2023
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1. Approval of the Agenda

The accepted agenda is given on page 2.

2. Apologies for Absence

Faiçal **Azaiez** (iThemba), Eduardo **Alves**, Diego **Bettoni**, Angela **Bracco** (NPN), Andreas **Haungs** (APPEC), Rolf-Dietmar **Herzberg**, Gerda **Neyens**, Franck **Sabatié**, Boris **Sharkov** (JINR) (membership suspended) and Raimond **Snellings**.

3. Minutes of the Previous Meeting

The minutes of the hundred-third meeting held in Cape Town on September 17, 2022, are agreed upon without changes and will be put on the NuPECC Website as such.

4. Chair's Business

Marek Lewitowicz welcomes Dirk Rudolph as new representative from Sweden, replacing Tord Johansson. He reports on his activities for NuPECC; his presentation can be found on the NuPECC Indico site. The main items not addressed in their own points of the agenda were:

NuPECC Task Force

The meeting foreseen in Vienna on November 30, 2022, had to be cancelled due to COVID; the next Task Force meeting will be held in Brussels on January 31, 2023.

Joint ECFA-APPEC-NuPECC actions

The 3 Chairs established a new Working Group on "Computing"; NuPECC is represented by Marc Labiche and Ulf Meißner. Further information will be put on the JENAA Website <https://www.nupecc.org/jenaa/>.

Eugenio Nappi will represent NuPECC in the ECFA Detector Panel – see https://indico.cern.ch/event/1212248/contributions/5099326/attachments/2550011/4392297/Plenary_ECFA_Detector_R%26D_Roadmap_Implementation_181122.pdf and attend its next meeting at CERN on December 19, 2022.

Conference Support 2023

In addition to the already supported conferences given in Appendix 1, two more requests were sent: for XQCD 2023 in Coimbra and Initial Stages 2023 in Copenhagen; support for both is approved. The complete list is given under <https://www.nupecc.org/?display=support/conf>.

NuPECC Special Report "Nuclear Physics in Everyday Life"

The final report is published in a low- and high-resolution version on the NuPECC Website – see <https://www.nupecc.org/?display=pub/publications>; 750 copies are printed and sent to the NuPECC representatives and the authors as well as distributed at INPC and EuNPC.

NuPECC Status Report to ESF

The biannual status report to the Executive Board of ESF will be put in the Members' area of the NuPECC Website (<https://www.nupecc.org/restricted/>).

NuPECC Membership

The membership of Croatia can be held open, without financial commitment, until the end of 2023. If after this date it has not been possible to find a representative and an institute or organisation willing to contribute the membership fee, Croatia's membership will be discontinued. The Chair will inform colleagues in Croatia accordingly. Membership of Serbia and Ireland are under discussion.

5. NuPECC Long Range Plan 2024

According to the timeline

- **28th of October 2022:** *Submission of community inputs CLOSED*
- **October 2022 – November 2022:**
 - *initial analysis of inputs by the Steering Committee;*
 - *definition of Thematical Working Groups of LRP by the Steering Committee;*
 - *Proposal for Conveners by the Steering Committee*
- **1&2 Dec. 2022:** *Conveners to be approved at the NuPECC meeting*

After the extension of the deadline for input to October 28, 2022, 159 inputs from over 400 colleagues have been received, distributed quite evenly over the various subfields. Inputs #3, 51, 52, 53 and 55 (theory) should be excluded as not being relevant for the LRP. All accepted inputs can be found under <https://indico.ph.tum.de/event/7050/contributions/>; all proponents have been informed. Eberhard Widmann established a website where all the abstracts and contributions are compiled in according files and made it available under <https://oeawcloud.oeaw.ac.at/index.php/s/RLFNE6iXBMZxxn> (NuP4LrP).

The Steering Committee agreed on the final list of Thematical Working Groups and sub-groups:

- **Hadron Physics**
 - **Strongly Interacting Matter at Extreme Conditions**
 - **Nuclear Structure and Reaction Dynamics**
 - **Nuclear Astrophysics**
 - **Symmetries and Fundamental Interactions**
 - **Infrastructures (present, under construction and emerging ideas)**
 - **Applications and Societal Benefits**
 - **Nuclear Physics Tools**
 - Detectors and Experimental Techniques
 - Computing, Machine Learning and Artificial Intelligence
 - **Open Science and Data**
 - **Nuclear Science – People and Society**
 - Training, Careers & Diversity
 - Education and Outreach
- *Sustainability of nuclear science should be emphasized in the work of all TWGs*
- *All TWGs have to appoint officially at least one early-career scientist to become its member*

The proposed list of Co-ordinators and Liaison Members

TWG	Coordinators	Liaisons
Hadron Physics	Karin Schönning (Uppsala)	Diego Bettoni
	Constantia Alexandrou (CY)	Dave Ireland
Strongly Interacting Matter at Extreme Conditions	Laura Fabbietti (TUM)	Gert Aarts
	Urs Wiedemann (CERN)	Raimond Snellings
Nuclear Structure and Reaction Dynamics	Silvia Leoni (Univ. Milano)	Adam Maj
	Tomas Rodriguez(UCM)	Jelena Vesic
Nuclear Astrophysics	Anu Kankainen (JYFL)	Daniel Bemmerer
	Jordi Jose (Barcelona)	Sandrine Courtin
Symmetries and Fundamental Interactions	Pierre Delahaye (GANIL)	Eberhard Widmann
	Paolo Crivelli (ETH)	Klaus Kirch
Infrastructures	Wolfram Korten (CEA, Saclay)	Joaquin Gomez Camacho
		Patricia Roussel-Chomaz
Applications and Societal Benefit	Thomas Cocolios (KU Leuven)	Lucia Popescu
	Charlot Vandevoorde (GSI)	Vladimir Wagner
Nuclear Physics Tools Detectors and experimental techniques Computing, Machine Learning and Artificial Intelligence	Silvia Dalla Torre (INFN)	Eugenio Nappi
	Thorsten Kollegger (GSI/FAIR)	Hervé Moutarde
	Jana Guenther (U. Wuppertal)	
Open Science and Data	Antoine Lemasson (GANIL)	Marek Lewitowicz
Nuclear Science - People and Society Training, Careers & Diversity Education and Outreach	María García Borge (Madrid)	Rolf-Dietmar Herzberg
	Christian Diget (York)	

is approved unanimously.

The Co-ordinators are asked to provide a list of possible TWG members, including the names proposed by the Steering Committee.

6. CERN

Joachim Mnich reports on the nuclear physics activities at CERN; his presentation can be found on the NuPECC Indico site.

7. NSAC

Gail Dodge reports on the newly launched long range plan in the US and the charge to NSAC (see https://science.osti.gov/-/media/np/nsac/pdf/202207/NSAC_LRP-2022-Charge_Letter_AAB37-Signed.pdf); her presentation can be found on the NuPECC Indico site. She was appointed as a member of the Steering Committee of the NuPECC LRP 2024; in reciprocity Marek Lewitowicz will contribute to the work of NSAC.

8. ANPhA

Weiping Liu reports on the activities of ANPhA; his presentation can be found on the NuPECC Indico site.

9. Report STRONG2020

Barbara Erasmus reports on the progress of STRONG2020; her presentation can be found on the NuPECC Indico site.

10. News from Israel

Itzhak Tserruya reports on the activities in nuclear physics in Israel; his presentation can be found on the NuPECC Indico site.

11. News from ELI-NP

Nicolae Marginean reports on the progress of ELI-NP; his presentation can be found on the NuPECC Indico site.

12. News from MYRRHA

Lucia Popescu reports on the progress of MYRRHA; her presentation can be found on the NuPECC Indico site.

13. News from GANIL/SPIRAL2

Patricia Roussel-Chomaz reports on the progress of GANIL/SPIRAL2; her presentation can be found on the NuPECC Indico site.

14. News from FAIR

Paolo Giubellino reports on the progress of FAIR; his presentation can be found on the NuPECC Indico site.

15. Nuclear Data

Paraskevi Dimitriou reports on the activities of IAEA in the field of “nuclear data”; her presentation can be found on the NuPECC Indico site. NuPECC is ready to participate in a common action with IAEA and EURATOM, starting with a joint meeting as soon as possible.

16. News from ESF

Nicolas Walter reports on the activities of ESF; his presentation can be found on the NuPECC Indico site.

17. News from ECT*

Gert Aarts reports on the activities of ECT*; his presentation can be found on the NuPECC Indico site.

18. NuPECC Budget 2022

Paul Greenlees presents the budget plan for 2022; his presentation can be found on the NuPECC Indico site. He will provide a budget proposal for 2023 at the next meeting.

19. Nuclear Physics News

Gabriele-Elisabeth Körner shows numbers for the online access to NPN, both from the NuPECC Website and from the website of Taylor & Francis; her presentation can be

found on the NuPECC Indico site. The special issue for the International Year of Basic Sciences for Sustainable Development IYBSSD 2022 is under preparation.

20. Place, Time and Topics of Next Meetings

The next meetings of NuPECC will be held on

March 16 and 17, 2023, in Ljubljana and
May 31 and June 1, 2023, in Debrecen
October 2023, in Bratislava.

Proposed topics for next meetings

NuPECC LRP 2024

Presentation on nuclear physics from one/two NuPECC countries

Status report: EURO-LABS (project begun on September 1st, 2022)

HP Computing and Machine Learning in nuclear physics

Targets and rare stable isotopes for nuclear physics experiments

Reports from Portugal, Poland

Hadron Therapy Centre on the Balkan

Turkey

Situation in Ukraine

16. AoB

No other business.

München, December 16, 2022



(Gabriele - Elisabeth Körner)

Annex 1

Conferences supported in 2023

Bormio Winter Meeting	Bormio, Italy	February 6 - 11, 2023
Hard Probes 2023	Aschaffenburg, Germany	March 26 - 31, 2023
ICRM2023	Bucharest, Romania	March 27 - 31, 2023
ARIS 2023	Avignon, France	June 4 - 9, 2023
COMEX7	Catania, Italy	June 11 - 16, 2023
MESON 2023	Cracow, Poland	June 22 - 27, 2023
PROCON 2023	Warsaw, Poland	June 26 - 30, 2023
EFB25	Mainz, Germany	July 30 - August 4, 2023
XXXVIIth Mazurian Lakes Conference	Mazurian Lakes, Poland	September 3 - 9, 2023

Annex 2

Steering Committee Members

Gert Aarts
Daniel Bemmerer
Diego Bettoni
Sandrine Courtin
Paolo Giubellino
Joaquin Gomez-Camacho
Paul Greenlees
Andreas Haungs
Rolf-Dietmar Herzberg
Dave Ireland
Karl Jakobs
Sissy Koerner
Marek Lewitowicz
Adam Maj
Ulf Meissner
Joachim Mnich
Hervé Moutarde
Eugenio Nappi
Lucia Popescu
Patricia Roussel-Chomaz
Franck Sabatié -> Hervé
Moutarde
Hiroyoshi Sakurai
Raimond Snellings
Martin Venhart
Jelena Vesic
Vladimir Wagner
Eberhard Widmann

Yvonne Leifels
Gail Dodge