

**Draft Minutes**  
**of the Hundred-fifth Meeting of the**  
**Nuclear Physics European Collaboration Committee (NuPECC)**  
**held in Ljubljana on March 16 and 17, 2023**

Participants:                    Faiçal **Azaiez** (iThemba),  
                                      Jens Jørgen **Gaardhøje**  
                                      Joaquin **Gomez Camacho**  
                                      Paul **Greenlees**  
                                      Klaus **Kirch**  
                                      Karl **Jakobs** (ECFA)  
                                      Gabriele - Elisabeth **Körner** (Scientific Secretary)  
                                      Yvonne **Leifels**  
                                      Marek **Lewitowicz** (Chair)  
                                      Adam **Maj**  
                                      Nicolae **Marginean**  
                                      Eugenio **Nappi**  
                                      Lucia **Popescu** (MYRRHA)  
                                      Danas **Ridikas** (IAEA)  
                                      Alexander **Rothkopf**  
                                      Dirk **Rudolph**  
                                      Eugenio **Scapparone** (EPS)  
                                      Raimond **Snellings**  
                                      Jelena **Vesić**  
                                      Vladimír **Wagner**  
                                      Nicolas **Walter** (ESF)  
                                      Eberhard **Widmann** (Deputy Chair)

**Remote:** Daniel **Bemmerer**, Diego **Bettoni**, Sotirios **Charisopoulos**, Sandrine **Courtin**, Gail **Dodge** (NSAC), Stéphane **Goriely**, Rolf-Dietmar **Herzberg**, David **Ireland**, Rituparna **Kanungo** (CINP), Weiping **Liu** (ANPhA), Ulf G. **Meißner**, Patricia **Roussel-Chomaz** (SPIRAL2), Hiroyoshi **Sakurai** (RIKEN), Itzhak **Tserruya** (Israel), and György **Wolf**.

**Guests:** Navin **Alahari**, Barbara **Erazmus**, Sefa **Ertürk**, Fabiana **Gramegna** and Tommaso **Marchi**.

**Indico:** <https://indico.ph.tum.de/event/7175/> (nupecc\_lju)

## 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. NuPECC Survey on Experimental Nuclear Physics (Joaquin Gomez Camacho)
7. Status Report EURO-LABS (Navin Alahari)
8. Status Report STRONG2020 (Barbara Erazmus)
9. News from Poland (Adam Maj)
10. News from Sweden (Dirk Rudolph)
11. News from ECFA (Karl Jakobs, remote)
12. News from SPES (Fabiana Gramegna)
13. News from FAIR (Paolo Giubellino)
14. Nuclear Physics in Turkey (Sefa Ertürk)
15. NuPECC Budget 2023 (Paul Greenlees)
16. Nuclear Physics News (Gabriele-Elisabeth Körner)
17. Place, time and topics of the Meetings in 2023
18. AoB

## 1. Approval of the Agenda

The accepted agenda is given on page 2.

## 2. Apologies for Absence

Gert **Aarts**, Eduardo **Alves**, Angela **Bracco** (NPN), Paolo **Giubellino** (FAIR), Joachim **Mnich** (CERN), Andreas **Haungs** (APPEC), Hervé **Moutarde**, Boris **Sharkov** (JINR) (membership suspended) and Martin **Venhardt**.

## 3. Minutes of the Previous Meeting

The minutes of the hundred-fourth meeting held in Vienna on December 1 and 2, 2022, are agreed upon without changes and will be put on the NuPECC Website as such.

## 4. Chair's Business

Marek Lewitowicz welcomes Klaus Kirch as new representative from Switzerland, replacing Bernd Krusche<sup>†</sup>, and Alexander Rothkopf as new representative from Norway, replacing Andreas Görden. 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*

Successful Task Force meetings will be held in Brussels on January 31, 2023, and Ljubljana on March 15, 2023; all presentations are available in the Members' Area of the NuPECC Website <https://www.nupecc.org/restricted/taskforce.php>. The next Task Force meeting will take place in Vienna on April 21, 2023.

### *Joint ECFA-APPEC-NuPECC actions*

Online meetings were held with EoIs 1 to 5 to discuss their status and further actions; the 3 Chairs gave them recommendations how to proceed. Eoi 6 needs to find new responsables, replacing Franck Sabatié and Daniel Boer.

The JENA Working Group on "Computing" is organising a workshop in Bologna on June 12 – 14, 2023. Further information will be put on the JENAA Website <https://www.nupecc.org/jenaa/>. All NuPECC Representatives are urged to propose possible speakers.

Eugenio Nappi is representing 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](https://indico.cern.ch/event/1212248/contributions/5099326/attachments/2550011/4392297/Plenary_ECFA_Detector_R%26D_Roadmap_Implementation_181122.pdf); its first meeting was held at CERN on December 19, 2022, the next one will take place on April 4, 2023.

### *Conference Support 2023*

The complete list of supported conferences in 2023 is given under <https://www.nupecc.org/?display=support/conf>. The application of the "First European School on the Physics of the Electron Ion Collider" – see <https://agenda.infn.it/e/EICschool2023/> - was approved; in the future selected European schools can be supported by NuPECC with 750 €.

### *Nuclear Physics in Ukraine*

Marek Lewitowicz was in contact with colleagues from Ukraine; a representative who will give a presentation at the next meeting will be suggested by mid-April.

### *Consultancy Meeting at IAEA*

A meeting on nuclear data - organized by IAEA with the help of NuPECC - will be held at the IAEA Headquarter in Vienna on April 25 - 27, 2023; for more details see <https://conferences.iaea.org/event/347/registrations/78/>.

### *International Year of Basic Science for Sustainable Development IYBSSD 2023*

The member organisations of the Steering Committee of IYBSSD 2023 are asked for more support; NuPECC has contributed financially already twice.

### *NuPECC Membership*

Membership of Serbia and Ireland are still under discussion.

## **5. NuPECC Long Range Plan 2024**

After the last NuPECC Meeting the Co-ordinators were asked to provide a list of possible TWG members, including the names proposed by the Steering Committee. If it turns out that expertise is missing, additions can be made at a later stage. After the approval of the Steering Committee the lists are put on the NuPECC Website <https://www.nupecc.org/index.php?display=lrp2024/twg> and are also given in the Appendix.

Yvonne Leifels agrees to act as second NuPECC Liaison for TWG 10 “Nuclear Science – People and Society”.

According to the envisaged timeline, status reports from the coordinators to the Steering Committee should be given online beginning of May and to the whole committee in person at the next NuPECC Meeting in Debrecen on May 31 – June 1, 2023.

For the in-person Recommendations Drafting Session in October/November 2023 a venue should be found which is close to a major airport and can accommodate about 50 participants. GSI offers to host the meeting; the exact date needs to be decided.

## **6. NuPECC Survey on Experimental Nuclear Physics**

Joaquin Gomez Camacho presents his task force - Patricia Roussel-Chomaz, Daniel Bemmerer, Adam Maj, Eugenio Nappi, Vladimir Wagner and Ulf Meissner – and his working programme:

- Task Force to be endorsed by NuPECC at the meeting in Ljubljana in March 2023.
- Task Force meeting online to decide specific information to be requested.
- National representatives begin data collection
- Task Force should present an interim report at the NuPECC October 2023 meeting
- Task Force elaborates results
- The final report is expected to be issued by March 2024.

His presentation can be found on the NuPECC Indico site. NuPECC unanimously approves the composition of the Task Force.

## **7. Status Report EURO-LABS**

Navin Alahari reports on the progress of EURO-LABS; his presentation can be found on the NuPECC Indico site.

## **8. Status Report STRONG2020**

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

## **9. News from Poland**

Adam Maj reports on the activities in nuclear physics in Poland; his presentation can be found on the NuPECC Indico site.

## **10. News from Sweden**

Dirk Rudolph reports on the activities in nuclear physics in Sweden; his presentation can be found on the NuPECC Indico site.

## **11. News from ECFA**

Karl Jakobs reports on the activities of ECFA; his presentation can be found on the NuPECC Indico site. The coordinator of TWG 8.1, Silvia Dalla Torre, is also member of the ECFA Detector Panel, thus duplication can be avoided. This should also be envisaged with EURO-LABS concerning training programmes.

## **12. News from SPES**

Fabiana Gramegna reports on the progress of SPES; her presentation can be found on the NuPECC Indico site.

## **13. News from FAIR**

Yvonne Leifels reports on the progress of FAIR; her presentation can be found on the NuPECC Indico site.

## **14. Nuclear Physics in Turkey**

Sefa Ertürk reports on the nuclear physics activities in Turkey; his presentation can be found on the NuPECC Indico site. Turkey should be included in the survey (see point 6); a possible associated membership will be discussed at the next meeting.

## **15. NuPECC Budget 2023**

Paul Greenlees presents the budget plan for 2023; his presentation can be found on the NuPECC Indico site.

## **19. Nuclear Physics News**

In some cases, bulk mailing led to problems with customs; all NuPECC members will be asked how many printed copies they want to receive in the future.

## **20. Place, Time and Topics of Next Meetings**

The next meetings of NuPECC will be held on

May 31 and June 1, 2023, in Debrecen  
November 23 and 24, 2023, in Bratislava.

*Proposed topics for next meetings:*

- NuPECC LRP 2024
- Presentation on nuclear physics from one/two NuPECC countries
- Situation of nuclear physics in Ukraine
- HP Computing and Machine Learning in nuclear physics
- Targets and rare stable isotopes for nuclear physics exp.
- Presentation from ERC representative

**16. AoB**

No other business.

München, April 3, 2023



(Gabriele - Elisabeth Körner)

## *Appendix*

### Members of LRP 2024 TWGs

#### **TWG 1: Hadron Physics**

- Luis Alvarez-Ruso, Valencia, Spain
- Pietro Antonioli, Bologna, Italy
- Gilberto Colangelo, Bern, Switzerland
- Annalisa D'Angelo, Rome Tor Vergata, Italy
- Luigi Del Debbio, Edinburgh, UK
- Achim Denig, JGU Mainz, Germany
- Gernot Eichmann, Graz, Austria
- Jeremy Green, DESY, Germany
- Bernhard Ketzer, Bonn, Germany
- Jan Matousek, Charles Univ. Prague, Czech Republic
- Silvia Nicolai, Orsay, France
- Elena Perez del Rio, Jagiellonian Univ., Poland
- Caterina Quintans, Lisbon, Portugal
- Marc Vanderhaeghen, Mainz, Germany

#### **TWG 2: Strongly Interacting Matter under Extreme Conditions**

- Roberta Araldi, Torino Univ., Italy
- Francesca Cuteri, Frankfurt Univ., Germany
- Andrea Dainese, Padova Univ., Italy
- Stefan Flörchinger, Univ. Jena, Germany
- Tetyana Galatyuk, GSI & TU Darmstadt, Germany
- Tuomas Lappi, JYFL, Finland
- Yen-Jie Lee, MIT, USA
- Giulia Manca, Cagliari Univ., Italy
- Sasha Milov, Weizmann Institute, Israel
- Luciano Musa, CERN
- Piotr Salabura, Jagiellonian Univ., Poland
- Carlos Salgado, Univ. of Santiago de Compostela, Spain

#### **TWG 3: Nuclear Structure and Reaction Dynamics**

- Dieter Ackermann, GANIL, France
- Alejandro Algora, IFIC Valencia, Spain
- Sonia Bacca, JGU Mainz, Germany
- Saul Becerio Novo, Spain
- Michael Block, Mainz, Germany
- Michal Ciemala, IFJ-PAN Krakow, Poland
- Gianluca Colo, Univ. Milano, Italy
- Ruben De Groote, KU Leuven, Belgium
- Alessia Di Pietro, LNS, Italy

- Timo Dickel, GSI, Germany
- Evgeny Epelbaum, Bochum, Germany
- Bogdan Fornal, IFJ-PAN Krakow, Poland
- Hans Fynbo, Univ. Aarhus, Denmark
- Liam Gaffney, Univ. Liverpool, UK
- Andreas Heinz, Chalmers, Sweden
- Morten Hjorth-Jensen, Univ. Oslo & MSU, Norway
- Guillaume Hupin, IJCLab, France
- Beatriz Jurado, Bordeaux, France
- Michal Kowal, Univ. Warsaw, Poland
- Javier Menendez, Barcelona, Spain
- Daniele Mengoni, Univ. Padova, Italy
- Tamara Niksic, Zagreb, Croatia
- Janne Pakarinen, JYFL, Finland
- Sorin Pascu, IFIN-HH, Romania
- Silvia Piantelli, Univ. Florence, Italy
- Zsolt Podolyak, Univ. Surrey, UK
- Olivier Sorlin, GANIL, France
- Paul D. Stevenson, Univ. Surrey, UK
- Marine Vandebrouck, CEA Saclay, France
- Carl Wheldon, Univ. Birmingham, UK
- Jonathan Wilson, IJCLab Orsay, France
- Kathrin Wimmer, GSI, Germany
- Andreas Zilges, Univ. Köln, Germany

#### **TWG 4: Nuclear Astrophysics**

- Umberto Battino, University of Hull, UK
- Andreas Bauswein, GSI, Germany
- Sonja Bernitt, HI-Jena/GSI, Germany
- Carlo Bruno, Edinburgh, UK
- Cristina Chiappini, IAP Potsdam, Germany
- Francois de Oliveira, GANIL, France
- Nicolas de Sereville, IJCLab, France
- Rosanna Depalo, Univ. Milan, Italy
- Cesar Domingo, Valencia, Spain
- Jenny Feige, TU Berlin, Germany
- Stephane Goriely, ULB, Belgium
- Francesca Gulminelli, LPC Caen, France
- Marcel Heine, Strasbourg, France
- Gabor Kiss, Atomki, Hungary
- Ann-Cecilie Larsen, Oslo, Norway
- Yuri Litvinov, GSI, Germany
- Maria Lugaro, Konkoly Observ., Hungary
- Jerome Margueron, Lyon, France
- Uwe Oberlack, Univ. Mainz, Germany
- Gianluca Pizzone, INFN Catania, Italy
- Konrad Schmidt, HZDR, Germany



## **TWG 5: Symmetries and Fundamental Interactions**

- Michail Athanasakis, ISOLDE, Switzerland/CERN
- Sebastian Baunack, Mainz, Germany
- Matteo Biassoni, LNGS, Italy
- Bertram Blank, LP2IB, France
- Jacek Dobaczewski, Univ. York, UK
- Martin Gonzalez Alonso, IFIC Valencia, Spain
- Tobias Jenke, ILL, France
- Andreas Knecht, PSI, Switzerland
- Magda Kowalska, ISOLDE, Switzerland/CERN
- Bastian Märkisch, TUM, Germany
- Natalia S. Oreshkina, MPIK, Germany
- Nancy Paul, LKB, France
- Guillaume Pignol, LPSC Grenoble, France
- Nathal Severijns, IKS Leuven, Belgium
- Sven Sturm, MPIK Heidelberg, Germany
- Martino Trassinelli, Sorbonne, France
- Stefan Ulmer, Düsseldorf/RIKEN, Germany

## **TWG 6: Infrastructures**

- Navin Alahari, GANIL, France
- Angela Bracco, INFN & Univ. Milano, Italy
- Francesca Cavanna, INFN Torino, Italy
- Letitia Cunqueiro, Univ. Roma, Italy
- Bogdan Fornal, IFJ-PAN Krakow, Poland
- Sean Freeman, ISOLDE & Univ. Manchester, CERN/UK
- Zsolt Fülöp, ATOMKI Debrecen, Hungary
- Tetyana Galatyuk, GSI & TU Darmstadt, Germany
- Frank Gunsing, IRFU CEA Saclay, France
- Alexander Philipp Kalweit, CERN
- Ari Jokinen, JYFL Jyväskylä, Finland
- Andreas Knecht, PSI Villigen, Switzerland
- Ulli Koester, ILL Grenoble, France
- Razvan Lica, IFIN-HH Bucharest, Romania
- Frank Maas, HI Mainz, Germany
- Carlos Munoz Camacho, IJCLab Orsay, France
- Catarina Quintans, LIPP Lisboa, Portugal
- Marco Radici, INFN Pavia, France
- Berta Rubio, IFIC Valencia, Spain
- Konrad Schmidt, HZDR Dresden, Germany
- Paul Schuurmans, SCK-CEN & Univ. Hasselt, Belgium
- Nathal Severijns, KU Leuven, Belgium
- Thomas Stöhlker, HI Jena & GSI/FAIR, Germany

## **TWG 7: Applications and Societal Benefit**

- Hamid Abderrahim, SCK-CEN, Belgium
- Michalis Athanasakis-Kaklamanakis, CERN/KU Leuven, Belgium

- Claude Bailat, CHUV, Switzerland
- Sayani Biswas, PSI, Switzerland
- Iva Bogdanovic-Radovic, Zagreb, Croatia
- Daniel Cano-Ott, CIEMAT, Spain
- Thomas Cocolios, KU Leuven, Belgium
- Sean Collins, NPL, UK
- Charlotte Duchemin, CERN
- Giles Edwards, Manchester, UK
- Ekkehard Peik, PTB, Germany
- Muriel Fallot, Subatech, France
- Anne-Marie Frelin, GANIL, France
- Robin Golser, Vienna, Austria
- Angel Ibarra, CIEMAT, Spain
- Zsolt Kasztovszky, Budapest, Hungary
- Ulli Köster, ILL, France
- Armadina Lima-Lopes, Porto, Portugal
- Renata Mikolajczak, POLATOM, Poland
- Enrique Nacher, CSIC, Spain
- Katia Parodi, LMU, Germany
- Vincenzo Patera, Rome, Italy
- Nikolas Patronis, Ioannina, Greece
- Arjan Plompen, JRC Geel, Belgium
- Lucia Popescu, SCK CEN, Belgium
- Marco Ripani, INFN Genova, Italy
- Zeynep Talip, PSI, Switzerland
- Eugenia Toimil-Molares, GSI, Germany
- Charlot Vandevoorde, GSI, Germany
- Teodora Vollmer, Chalmers, Sweden
- Clemens Walther, Hannover, Germany

## **TWG 8: Nuclear Physics Tools**

Detectors and experimental techniques:

- Andy Boston, Univ. Liverpool, UK
- Paolo Finocchiaro, INFN LNS, Italy
- Piotr Gasik, GSI/FAIR, Germany
- Paola Gianotti, Frascati, Italy
- Fritz-Herbert Heinsius, GSI, Germany
- Silvia Masciocchi, GSI, Germany
- Thomas Peitzmann, Utrecht, The Netherlands
- Tina Pollmann, NIKHEF, The Netherlands
- Veronique Puill, CNRS, France
- Joachim Schwiening, GSI, Germany
- Monica Sisti, Milano Bicocca, Italy
- Joachim Stroth, GU Frankfurt, Germany
- Jose Javier Valienta Dubon, INFN Legnaro, Italy

## **TWG 9: Open Science and Data**

- Hector Alvarez-Pol, USC, Spain
- Stefano Bianco, INFN Frascati, Italy
- Vivian Dimitriou, IAEA, Austria
- Xavier Espinal, CERN, Switzerland
- Michel Jouvin, CNRS/IJCLab, France
- Adrien Matta, CNRS/LPC Caen, France
- Caterina Michelagnoli, ILL, France
- Andrew Mistry, GSI/FAIR, Germany
- Panu Rahkila, JYFL, Finland
- Manuela Rodriguez, Sevilla, Spain
- Olivier Stezowsky, CNRS/IP2I, France
- Enrico Vigezzi, INFN Milano, Italy

## **TWG 10: Nuclear Science - People and Society**

- Axel Boeltzig, HZDR, Germany
- Michele Coeck, SCK-CEN, Belgium
- Johan Collot, Grenoble, France
- Alessandra Fantoni, INFN, Italy
- Fanny Farget, GANIL, France
- Hans Fynbo, Aarhus Univ., Denmark
- Katrin Goebel, GSI, Germany
- Christian Klein-Boesing, Univ. Münster, Germany
- Agnieszka Korgul, Warsaw Uni., Poland
- Thomas Nilsson, Chalmers Univ., Sweden
- Laura Nuttall, Portsmouth, UK
- Arnau Rios, Barcelona, Spain
- Magnus Schlösser, KIT, Germany
- Annika Thiel, Bonn, Germany
- Livius Trache, IFIN-HH, Romania