

May 30-31, 2023

## Chair's Business

- **Actions following established NuPECC priorities**
- **JENAA (Joint ECFA-NuPECC-APPEC Activities)**
- **Support actions, lobbying and management**
- **Decisions to be taken at this meeting**

1. Task Force meetings in 2023:
  - *Belgium in Brussels on 31/01/2023*
  - *Slovenia in Ljubljana on 15/03/2023*
  - ***Austria in Vienna on 21/04/2023***
2. NuPECC LRP 2024 (*later today*)
3. Support for the EU nuclear physics related projects:
  - Info: STRONG 2020 (prolongation up to May 2024 granted)
4. Status report from member countries/organisations  
(*Switzerland, NSAC and ECT\* at this meeting*)
5. ***Presentation from Ukraine (application for membership)***
6. NuPECC Survey on experimental nuclear physics (*see presentation of Joaquin Gomez Camacho*)

## NuPECC Task Force Visit to Austria

Time: 21 Apr 2023 14:00 – 16:30

Place: Austrian Federal Ministry of Education, Science, and Research (bmwfw)  
Teinfaltstraße 8, 1010 Vienna, Room 101

## AGENDA

- Welcome
- NuPECC and Long Range Plan 2024 for Nuclear Physics in Europe (Marek Lewitowicz) - 15'
- Nuclear Physics in Austria (E. Widmann) – 30'
- ESFRI roadmap infrastructures (15' each)
  - GSI/FAIR (P. Giubellino)
  - GANIL/Spiral2 (M. Lewitowicz)
  - ELI-NP (N. Marginean, zoom)
  - ISOL@MYRRHA (L. Popiescu)
- Discussion on funding opportunities for Nuclear Physics in Austria
- Conclusion

## PARTICIPANTS

### *Participants bmwfw Department V/3*

Dr. Stefan Hanslik  
Florian Brandt, MSc

### *Participants NuPECC*

Prof. Marek Lewitowicz, Chair  
Prof. Eberhard Widmann, Deputy Chair, Austrian representative in NuPECC  
Prof. Paolo Giubellino (GSI-FAIR)  
Dr. Nicu Marginean (ELI-NP) (zoom)  
Dr. Lucia Popescu (MYRRHA)  
Dr. Gabriele-Elisabeth Körner (NuPECC Scientific Secretary)

### Excellent presentations and discussion

- Participation of Austrian groups in LRP2024 community contributions
- Limited resources but high quality nuclear/particle physics activities

- **Regular (1/month) APPEC-ECFA-NuPECC Chairs' meetings**
- **APPEC-ECFA-NuPECC new initiative on Computing**
  - Intense preparation of a dedicated JENA Workshop on Computing in Bologna (on 12–14 June 2023)
  - See <https://agenda.infn.it/event/34738/> for goals and preliminary (excellent!) program
  - NuPECC representatives/experts in the Organising Committee:
    - Ulf-G. Meißner - Universität Bonn
    - Marc Labiche - STFC Daresbury Laboratory

**Please register asap if you want to attend the meeting**

## JENA Workshop on Computing in Bologna on 12–14 June 2023

- See <https://agenda.infn.it/event/34738/> for goals and preliminary (excellent!) program

### Goal:

- What are the requirements of computing in the next decade and can we find synergies? Synergies in resources (facilities) as well as in software for efficient use of the resources.
- Identify where synergies are beneficial for all communities (and funding agencies).
- This is an initial kick-off workshop. We aim to set up working groups to explore synergies and cooperation in certain areas. The results will be discussed with representatives of the funding agencies at the next JENA symposium.

## IAEA Consultancy meeting on Nuclear Data in Europe organized in collaboration with NuPECC: 25-27/04/2023 in Vienna

The topics discussed at the meeting were:

- (i) nuclear data needs and gaps in the nuclear databases,
- (ii) European involvement in acquiring and curating nuclear data,
- (iii) available or potential resources in Europe for curation of nuclear data,
- (iv) necessary actions to form a comprehensive European plan to acquire and curate nuclear data,
- (v) international cooperation.

## Agenda of the meeting

- [1. Curated nuclear data at the Nuclear Data Section](#) Paraskevi DIMITRIOU (IAEA)
- [2. Nuclear Data in the NuPECC Long Range Plan 2024 for European Nuclear Physics](#) Marek Lewitowicz (NuPECC/GANIL)
- [3. Nuclear Data at CEA](#) Sylvie Leray (CEA, Irfu)
- [4. Nuclear Data Activities in EURATOM](#) Roger GARBIL (Euratom - Nuclear Fission)
- [5. US Nuclear Data Program](#) Keith Jankowski (DoE Office of Science)
- [6. Nuclear Data and Nuclear Astrophysics - ChETEC-INFRA](#) Axel Boeltzig (HZDR)
- [7. SANDA project - slides by Enrique Gonzales \(in absentia\)](#)

Round table discussions

Drafting of the report

**The full report and open access to presentations available soon**

## Recommendations:

### The European nuclear physics community should

- Establish priorities for nuclear data measurements and evaluations for applications that will be addressed by a comprehensive European nuclear data program - the priorities should be based on existing priority lists maintained by the different stakeholders
- Strive to establish a sustainable source of funding of measurements and data evaluation, including well-defined career paths in nuclear data, that will involve national funding agencies and the European Commission (EC) (EURATOM and all other relevant EU work programmes)
- Maintain access to key experimental infrastructures that enable specific measurement methodologies including target preparation and supply to produce nuclear data relevant for applications.
- Reinforce cooperation with international organisations (IAEA, NEA), which should provide support in the form of coordination, training, dissemination, and outreach



## Follow up actions (1/2)

- Side event at the IAEA General Conference 67 (25 – 29 Sep 2023) on nuclear data that will be proposed by the JRC Geel (support from France)
- Ensure adequate funding is allocated to nuclear structure and decay data evaluation in the next proposal submitted to the open call HORIZON-EURATOM-2023-NRT-01-06: Improved nuclear data for the safety of energy and non-energy applications of ionising radiation.
- Organize meetings at international and European level to bring together stakeholders including national funding agencies, EC (incl. EURATOM) representatives, nuclear technology industrial partners, and representatives of the nuclear physics research community (NuPECC) and the nuclear data community (JRC, EURATOM-funded project coordinators) as well as international organizations (IAEA, NEA)

## Follow up actions (2/2)

- Reach out to JRC to explore opportunities to establish a sustainable nuclear structure and decay data evaluation effort in addition to the existing nuclear reaction data evaluation effort
- Reach out to national funding agencies and EU large-scale facilities to investigate ways of strongly enhancing the support of curation of nuclear data in addition to the production of nuclear data
- Organise workshops, summer schools, and webinars to raise awareness of the importance of nuclear data and to enhance capacity building in nuclear data evaluation methods, validation, and dissemination.

**NuPECC will be involved in all proposed actions**

***Reminder: 2023 Conference Support already granted  
10 conferences supported with a total budget 15000€***

## **Request from the SPES community**

E-mail from Tommaso Marchi: “as we are pushing forward the construction of the SPES facility, we feel the importance of promoting a conference on all the physics items related to the SPES project (Nucl Phys, RIB production, Radioisotopes production, etc). It could be an opportunity to gather together all the communities working at SPES on different fields.

Given our present timeline, a good moment for this event could be in fall 2024. INFN will support the initiative both from the side of Nuclear Physics (CSN3) and Applied Sciences (CSN5).

**Do you see that this kind of initiative would fit with the scope of NuPECC? Could it be supported?”**

# Proposal for a call for the NuPECC Support for 2024 Nuclear Physics Schools

## Support criteria

In order to be eligible, the school should:

- be a school with topics related to nuclear physics research and/or applications,
- take place in Europe or be organised by a NuPECC Associated Member,
- the funds should be used for a support of students or post-docs or/and a poster prize,
- display the NuPECC logo on the school poster, school website and other school materials and post the NuPECC roll-up at the school,
- endorse the Joint ECFA-NuPECC-APPEC Diversity Charter and encourage the participants to fill out the corresponding survey.

**Proposed NuPECC support: 750€/school**

**Call will be launched in the beginning of June with a dead-line for applications on October 31<sup>st</sup> , 2023**

**NB: Already 2 schools supported by NuPECC in 2023**

- **NuPECC Management Group meetings**
  - 3 meetings (April 2023 – May 2023)
- *Reminder: Invitation sent on March 6, 2023 to Ukrainian Nuclear Physicists to present the situation of nuclear physics at the Debrecen NuPECC meeting in June 2023*
  - **Presentation tomorrow by Igor Kadenko, Univ. of Kiev**
  - **Application of Ukraine for NuPECC Membership**
- **Membership of Serbia and Turkey in NuPECC under discussion**
- **Continues upgrade of the NuPECC Web and Indico sites (especially for the LRP2024 pages)**
  - Your remarks & proposals for improvements are always welcome

- **Request from SPES community to support a dedicated conference**
- **Call for NuPECC Support for European nuclear physics schools**
- **NuPECC Membership of Ukraine**
- **Dates, place and topics for the following NuPECC meetings**