



# News from NuPECC

[www.nupecc.org](http://www.nupecc.org)

E. Widmann

*Deputy chair, NuPECC*

*Stefan Meyer Institute, Vienna*

FAKT Workshop, Bruck a. . Mur, 23 – 24 Feb 2023

# Contacts to ECFA & APPEC



**JENAS-2019**  
Joint ECFA-NuPECC-ApPEC Seminar  
jointly organized by LAL, IPNO, IRFU and LPNHE

**October 14-16, 2019**  
Auditorium Pierre Lehmann, bât. 200, Faculté d'Orsay

**ECFA-NuPECC-ApPEC Organizing Board**

**ECFA**  
Jorgen D'Hondt, IIHE/Vrije Universiteit Brussel  
Manfred Kramer, CERN  
Carlos Lacasta, IFIC/CSIC-Universitat de Valencia

**NuPECC**  
Angela Bracco, INFN Milano/Università di Milano  
Marek Lewitowicz, GANIL  
Eberhard Widmann, Stefan-Meyer-Institut für subatomare Physik der ÖAW/Universität Wien

**ApPEC**  
Stan Bentvelsen, Nikhef  
Antonio Masiero, INFN  
Teresa Montaruli, University of Geneva

**Local Organizing Committee**  
G. BERNARDI, LPNHE  
D. BOUY, LAL  
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V. FROIS, IPNO  
M. GURDAL, IPNO  
A. KORICHI, CSNSM  
G. MARCHIORI, LPNHE  
N. PALANQUE-DELAJOLLE, IRFU  
F. SABATIE, IRFU  
G. WORMSER, LAL (chair)

Logos: ECFA, NuPECC, APPEC, CERN, CNRS, Université de Genève, IPN, LPNHE, CEA, IRFU, LAL, DESY, KIT, GANIL, IFIC, CSIC, IFCA, SANTANDER, UCM, MADRID.



**JENAS-2022**  
2nd Joint ECFA-NuPECC-APPEC Seminar  
Exploring synergies between Particle, Astroparticle and Nuclear Physics

**May 3-6, 2022**  
Madrid, Spain

**TOPICS:**

- Physics highlights
- Future projects and overall strategies
- Detector technologies
- Computing and software
- Diversity and recognition
- Education and Outreach
- Transfer of knowledge

**JENAS 2022 Committee**

**ECFA:** Karl Jakobs (Univ. Freiburg)  
Patricia Conde Muño (LIP, Lisboa)  
Jorgen D'Hondt (VUB, Brussels)

**APPEC:** Andreas Haungs (KIT, Karlsruhe)  
Katharina Henjes-Kunst (DESY, Hamburg)  
Teresa Montaruli (Univ. Geneva)

**NuPECC:** Marek Lewitowicz (GANIL, Caen)  
Eberhard Widmann (SMI, Wien)  
Gabriele-Elisabeth Körner (NuPECC)

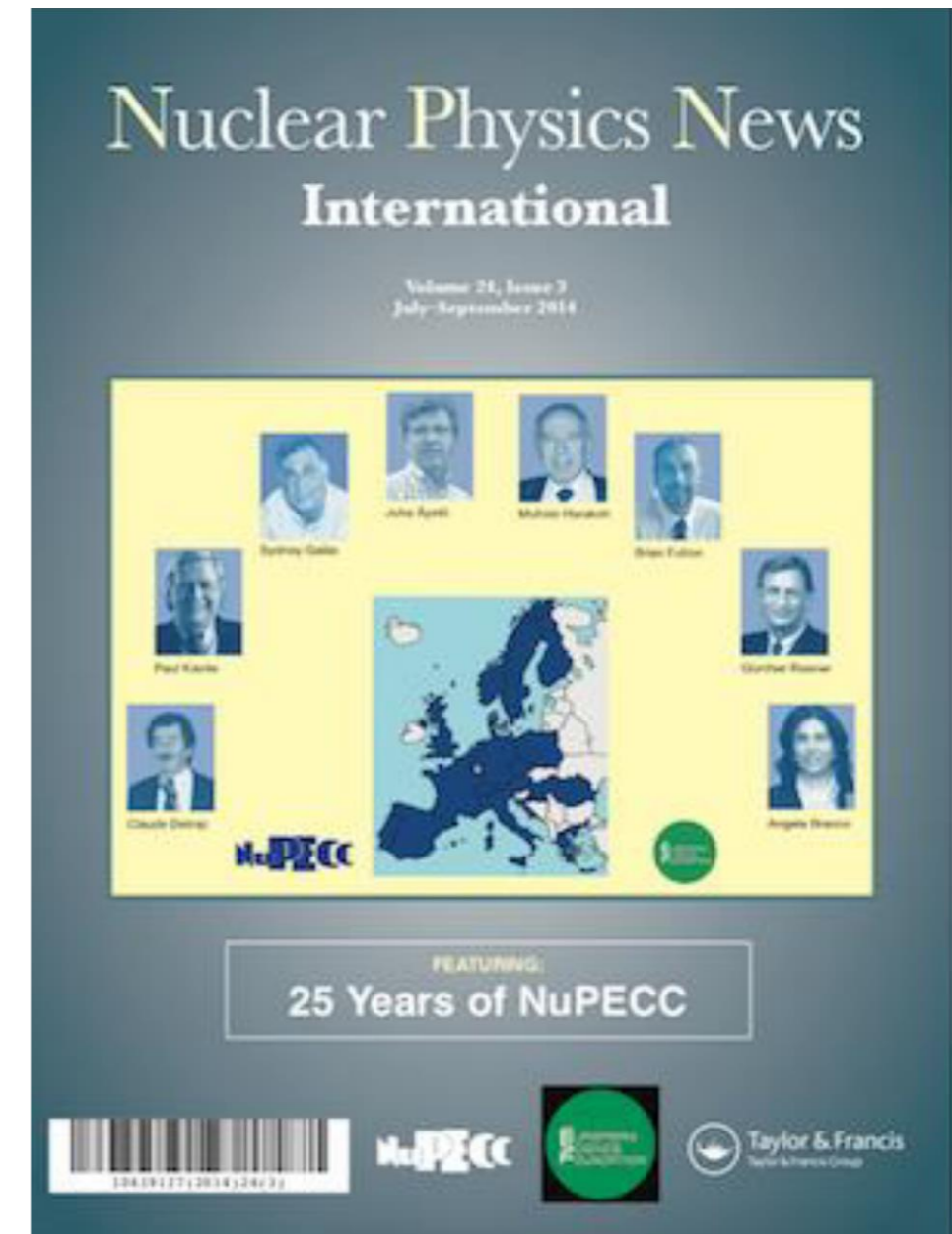
**Local Committee**

María José García Borge (IEM, Madrid)  
Antonio Bueno (UGR, Granada)  
Carlos Peña Garay (LSC, Canfranc)  
Joaquín Gómez Camacho (CNA, Seville)  
Celso Martínez Rivero (IFCA, Santander)  
Luis Mario Fraile (UCM, Madrid)

Logos: ECFA, NuPECC, APPEC, European Committee for Future Accelerators.

# Other

- Nuclear Physics News
  - Free distribution, send email to [sissy.koerner@ph.tum.de](mailto:sissy.koerner@ph.tum.de)
  - World wide distribution
  - Similar to CERN Courier



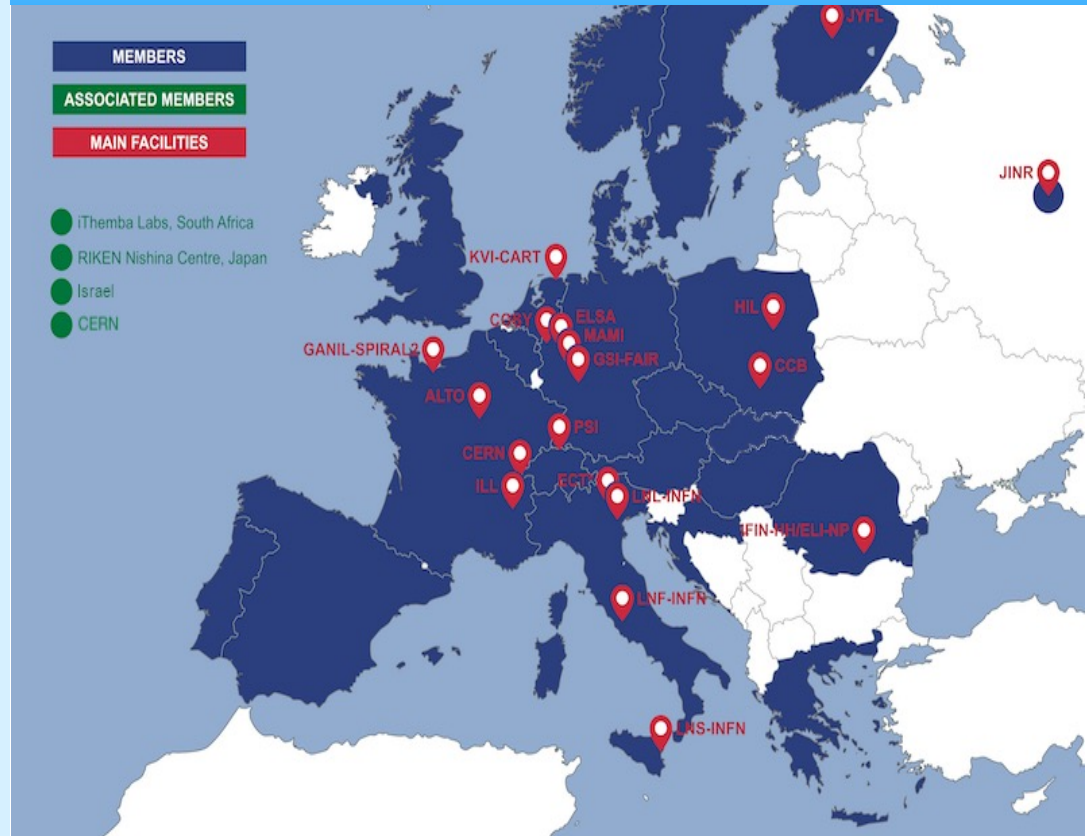
## Nuclear Physics European Collaboration Committee (NuPECC) Is the European Expert Board for Nuclear Physics hosted by European Science Foundation

Representing  
about 6000 scientists

### Composition:

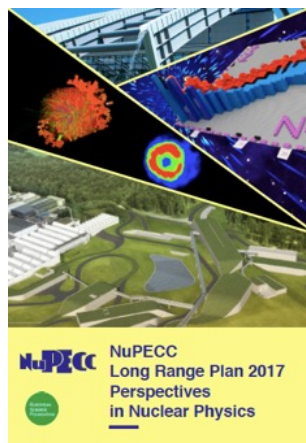
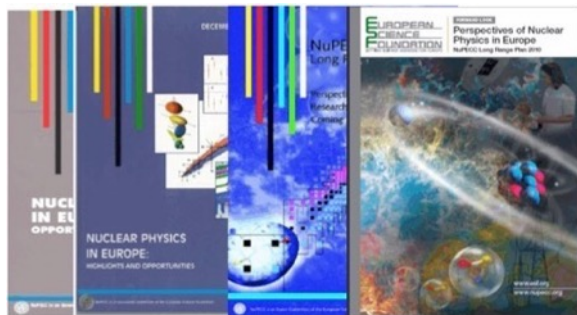
- **34** representatives from **22** countries (**new members Slovakia, Slovenia**), 3 ESFRI NP Infrastructures & ECT\*  
*JINR Dubna – suspended in March 2022*
- **4** associated members
  - CERN
  - Israel
  - iThemba Labs
  - Nishina Center
- **9** observers (ESF, NPD/EPS, ECFA, NSAC, ANPhA, ALAFNA, CINP, IAEA, APPEC)

3 regular Committee meetings/y



34 Years of NuPECC activities

1991 1997 2004 2010



- The LRP identifies opportunities and priorities for the nuclear science in Europe
- The LRP provides national funding agencies, ESFRI and European Commission with a framework for coordinated advances in nuclear science in Europe

## NuPECC LRP 2017

<http://www.nupecc.org/lrp2016/Documents/lrp2017.pdf>

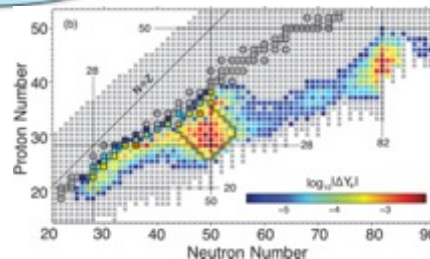
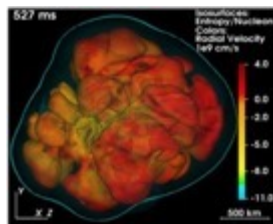
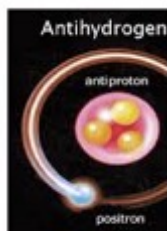
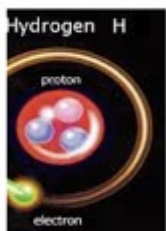
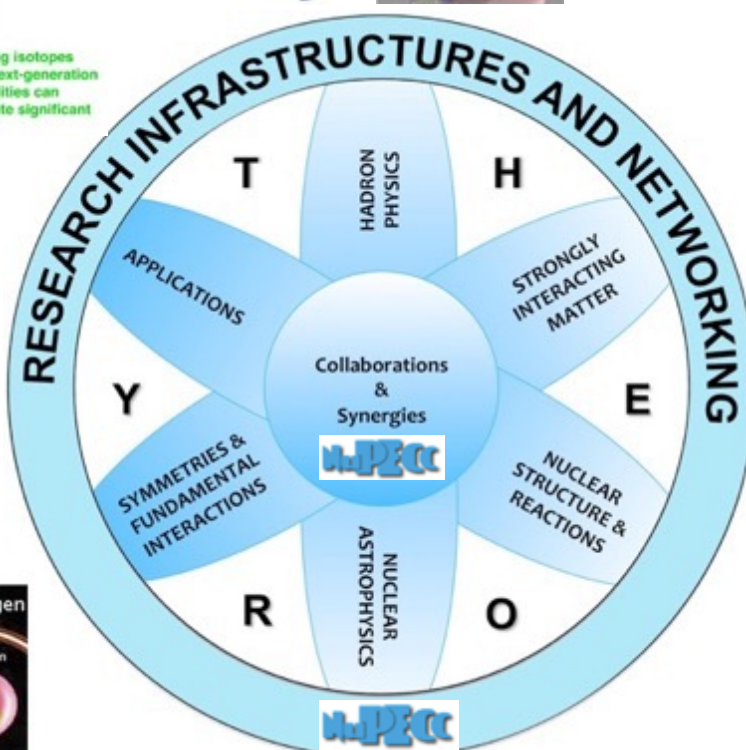
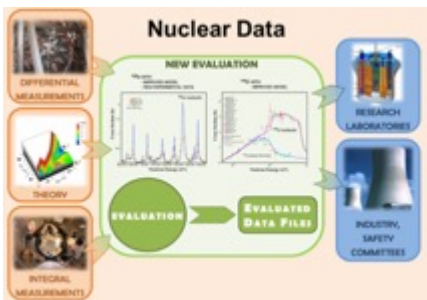
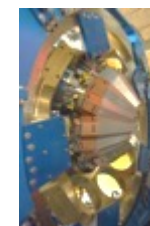
<http://www.nupecc.org>

Nuclear medicine perspective

SPECT  
PET  
Therapy



Emerging isotopes where next-generation RIB facilities can contribute significant supply



Complete urgently the construction of the ESFRI flagship **FAIR** and develop and bring into operation the experimental programme of its four scientific pillars APPA, CBM, NUSTAR and PANDA.

Support for construction, augmentation and exploitation of world leading ISOL facilities in Europe towards **EURISOL**.

**GANIL/SPIRAL2  
ISOLDE, SPES,  
JYFL**



Support for the full exploitation of existing and emerging facilities

**ELI-NP  
NICA, SHEF  
MYRRHA  
IFMIF-DONES**

Support for ALICE and the heavy-ion programme at the LHC with the planned experimental upgrades.



Support to the completion of **AGATA** in full geometry.



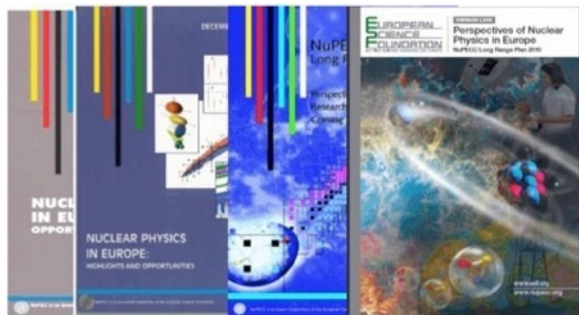
- The 2017 NuPECC Long Range Plan defined an ambitious strategy for European Nuclear Physics
- NuPECC efforts to transform the LR Plan into reality -> Task Force meetings
- Development of a global international approach to nuclear science in collaboration with IUPAP, NPD/EPS, ECFA, ApPEC, NSAC (US), ANPhA (Asia), ALAFNA (S. America), CINP (Canada)

## Joint activities of ECFA, APPEC & NuPECC

- Joint “JENAS” seminar
- Diversity Charter
- Recognition of young scientists



1991 1997 2004 2010



- The LRP identifies opportunities and priorities for the nuclear science in Europe
- The LRP provides national funding agencies, ESFRI and European Commission with a framework for coordinated advances in nuclear science in Europe

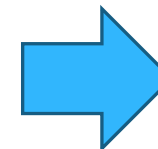


## Assessment of Implementation of the NuPECC Long Range Plan 2017

February 2022

**LIAISONS:** G. AARTS, D. BETTONI, S. COURTIN, P. GIUBELLINO, J. GÓMEZ CAMACHO, A. GÖRGEN, R.-D. HERZBERG, D. IRELAND, B. KRUSCHE, M. LEWITOWICZ, A. MAJ, U. MEISSNER, E. NAPPI, G. NEVENS, L. POPESCU, B. SHARKOV, E. WIDMANN,

**Contributors:** H. Abele, N. Alahari, W. Barth, D. Bemmerer, K. Blaum, F. Bossi, A. Bracco, M. Chioffi, A. Denig, M. Doser, S. Freeman, M. Gazdzicki, F. Gélis, H. Goutte, M. Grecco, M. Harakeh, M. Hori, G. Imbriani, E. Khan, K. Kirch, W. Korten, A. Laird, J. P. Lansberg, D. Lunney, F. Maas, G. Martinez-Pinedo, S. Masciocchi, A. Mengoni, O. Navillat-Cuncic, D. Rifuggiato, P. Rossi, E. Scomarini, J. Simpson, H. Schmieden, O. Schneider, N. Severijns, Th. Stöhlker, J. Stroth, H. Ströher, U. Thoma, S. Ulmer, C. A. Ur, Ch. Weinheimer, U. Wiedner, H. Wittig



**NuPECC LRP 2017**

<http://www.nupecc.org/lrp2016/Documents/lrp2017.pdf>

**February 2022**

[http://nupecc.org/2017\\_LRP\\_Assessment\\_of\\_Implementation\\_final.pdf](http://nupecc.org/2017_LRP_Assessment_of_Implementation_final.pdf)

**NuPECC LRP 2024**

**Launched in May 2022 in Madrid**

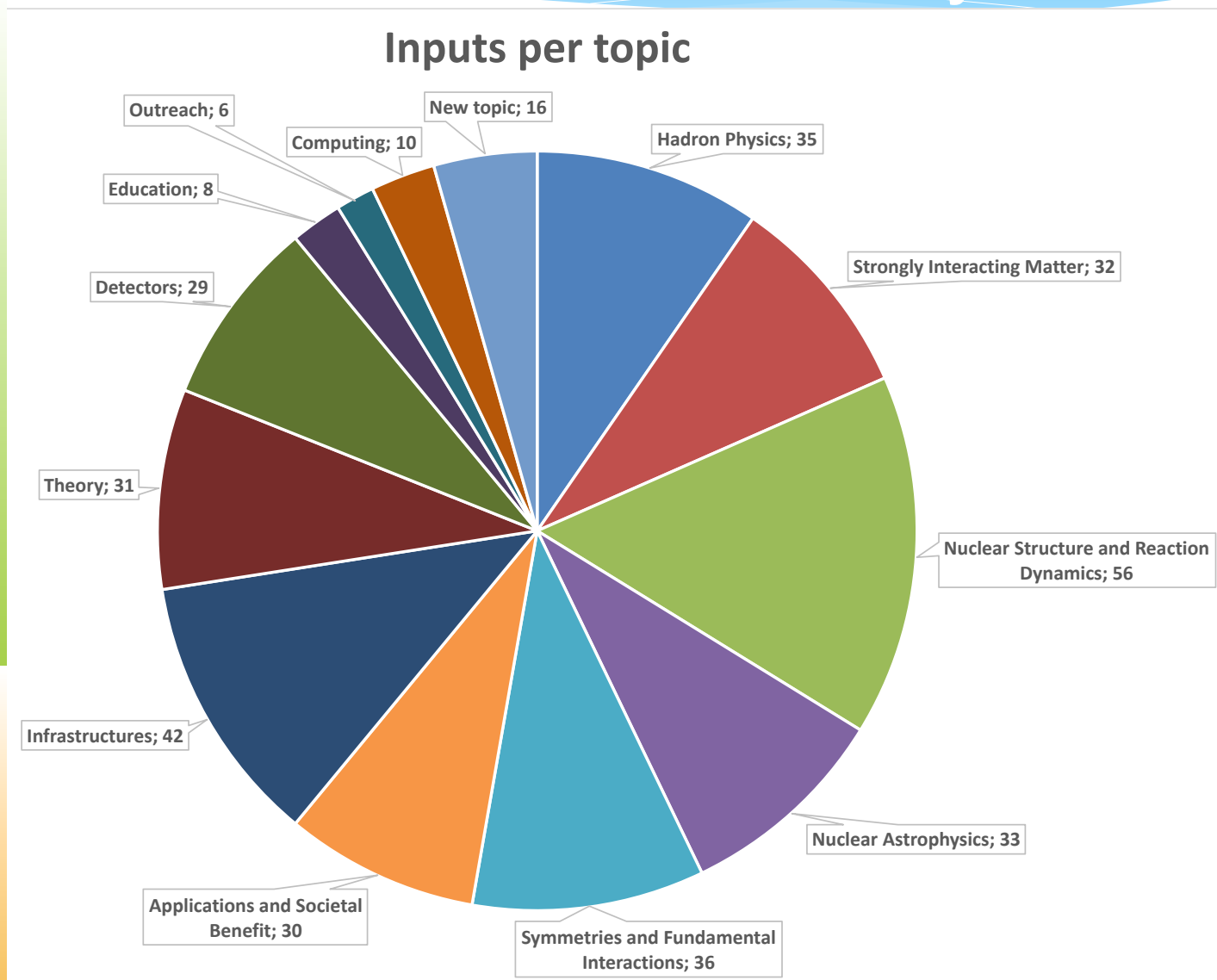
## organisation &amp; timeline

- **June 2021 – March 2022:** Assessment of the implementation of the 2017 LRP [http://nupecc.org/2017\\_LRP\\_Assessment\\_of\\_Implementation\\_final.pdf](http://nupecc.org/2017_LRP_Assessment_of_Implementation_final.pdf)
- **Beginning of May 2022:** Nomination of the LRP Steering Committee chosen among the NuPECC representatives
- **May 2022-October 2022:** Call for contributions from the community
- **October 2022 – November 2022:**
  - initial analysis of **159** community contributions 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 approved at the NuPECC meeting
- **Now:** Organisation of the Thematical Working Groups

### LRP Inputs:

- 159 contributions submitted
- by > 400 individual scientists, collaborations, infrastructures, and research institutions in Europe

5 contributions submitted directly by Belgian scientists and participation in many others (SCK-CEN, MYRRHA, ISOLDE, SPIRAL2,...)



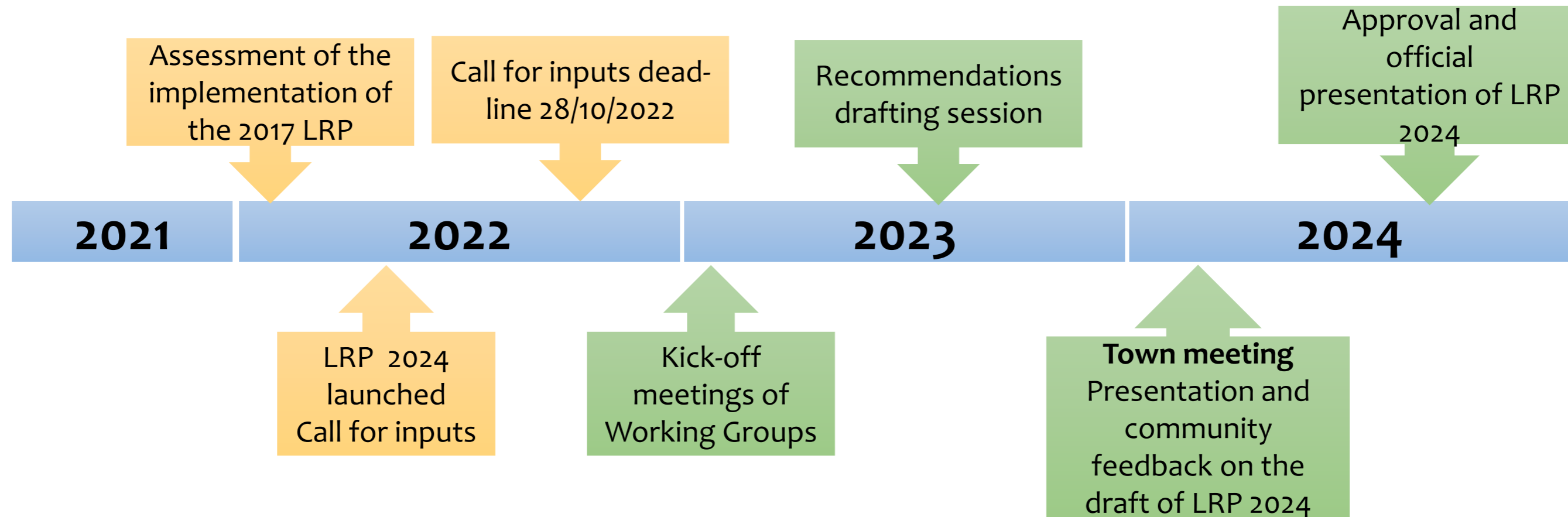
Theory/Exp.

TWG	Coordinators	Coord. e-mails	Liaisons	Liaisons e-mails
Hadron Physics	Karin Schönning (Uppsala)	<a href="mailto:karin.schonning@physics.uu.se">karin.schonning@physics.uu.se</a>	Diego Bettoni	<a href="mailto:bettoni@fe.infn.it">bettoni@fe.infn.it</a>
	Constantia Alexandrou (CY)	<a href="mailto:c.alexandrou@cyi.ac.cy">c.alexandrou@cyi.ac.cy</a>	Dave Ireland	<a href="mailto:david.ireland@glasgow.ac.uk">david.ireland@glasgow.ac.uk</a>
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	Urs Wiedemann (CERN)	<a href="mailto:Urs.Wiedemann@cern.ch">Urs.Wiedemann@cern.ch</a>	Raimond Snellings	<a href="mailto:R.Snellings@uu.nl">R.Snellings@uu.nl</a>
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	Tomas Rodriguez(UCM)	<a href="mailto:tomasro@ucm.es">tomasro@ucm.es</a>	Jelena Vesic	<a href="mailto:jelena.vesic@ijs.si">jelena.vesic@ijs.si</a>
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	Jordi Jose (Barcelona)	<a href="mailto:jordi.jose@upc.edu">jordi.jose@upc.edu</a>	Sandrine Courtin	<a href="mailto:sandrine.courtin@iphc.cnrs.fr">sandrine.courtin@iphc.cnrs.fr</a>
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	Paolo Crivelli (ETH)	<a href="mailto:Paolo.Crivelli@cern.ch">Paolo.Crivelli@cern.ch</a>	Klaus Kirch	<a href="mailto:klaus.kirch@psi.ch">klaus.kirch@psi.ch</a>
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			Patricia Roussel-Chomaz	<a href="mailto:patricia.chomaz@ganil.fr">patricia.chomaz@ganil.fr</a>
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	Charlot Vandevorode (GSI)	<a href="mailto:C.Vandevorode@gsi.de">C.Vandevorode@gsi.de</a>	Vladimir Wagner	<a href="mailto:wagner@ujf.cas.cz">wagner@ujf.cas.cz</a>
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	Thorsten Kollegger (GSI/FAIR)	<a href="mailto:T.Kollegger@gsi.de">T.Kollegger@gsi.de</a>	Hervé Moutarde	<a href="mailto:herve.moutarde@cea.fr">herve.moutarde@cea.fr</a>
	Jana Guenther (U. Wuppertal)	<a href="mailto:jguenther@uni-wuppertal.de">jguenther@uni-wuppertal.de</a>		
Open Science and Data	Antoine Lemasson (GANIL)	<a href="mailto:antoine.lemasson@ganil.fr">antoine.lemasson@ganil.fr</a>	Marek Lewitowicz	<a href="mailto:marek.lewitowicz@ganil.fr">marek.lewitowicz@ganil.fr</a>
Nuclear Science - People and Society Training, Careers & Diversity Education and Outreach	María García Borge (Madrid)	<a href="mailto:mj.borge@csic.es">mj.borge@csic.es</a>	Rolf-Dietmar Herzberg	<a href="mailto:rdh@liverpool.ac.uk">rdh@liverpool.ac.uk</a>
	Christian Diget (York)	<a href="mailto:christian.diget@york.ac.uk">christian.diget@york.ac.uk</a>		

Full list at <https://nupecc.org/?display=lrp2024/twg>



## LRP2024 time line





# NuPECC Task Force meeting Vienna

## 21 Apr 2023

- **Goal of the NuPECC Task Force**

- promote and lobby for the implementation of the LRP recommendations in the European countries

- **Composition**

- NuPECC representatives of the ESFRI facilities under construction, namely of ELI-NP, FAIR/GSI, GANIL/SPIRAL2, MYRRHA
- NuPECC Chair, Deputy Chair, NuPECC Scientific Secretary
- NuPECC representative(s) of visited country

- **Modus Operandi**

- meetings with major European organizations and national ministries/funding agencies

- ***So far meetings of the NuPECC Task Force took place in:***
  - Norway – Ministry of Research,
  - UK – STFC,
  - Romania - Ministry of Research,
  - IAEA Vienna,
  - Poland - Ministry of Research & funding agencies,
  - JINR Dubna,
  - France – CEA/Irfu - CNRS/IN2P3
  - Spain - Ministry of Research & funding agencies
  - Italy - INFN
  - **Today's meeting in Belgium**
  - *Next meeting in Slovenia and Hungary*
- ***Goal of the meeting (in Belgium)***
  - Present the strategy of Belgium for nuclear physics research
  - Present NuPECC Long Range Plan for nuclear physics in Europe and the major European (ESFRI-roadmap) facilities
  - Discuss the synergies





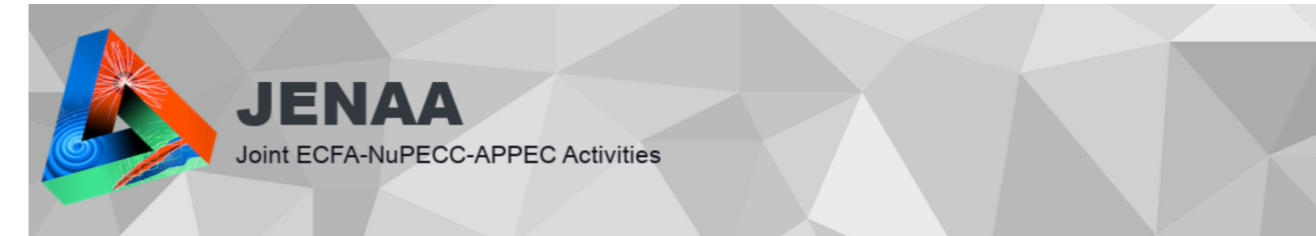
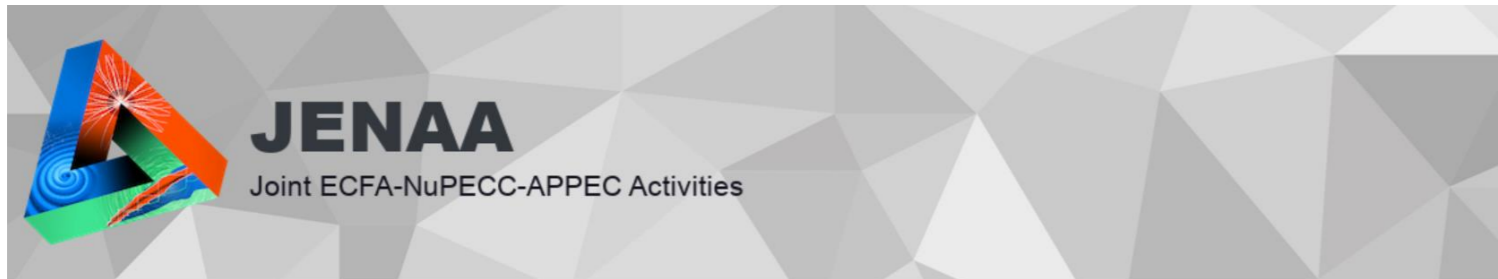
# Minimal agenda TF meeting

- Welcome
- NuPECC and Long Range Plan 2024 for Nuclear Physics in Europe (Marek Lewitowicz) - 15'
- Nuclear Physics in Country X (NuPECC representative) - 15'
- Short Presentations from 3-4 ESFRI roadmap infrastructures (FAIR, GANIL-SPIRAL2, ELI-NP, MYRRHA) by directors or their representatives - 3 or 4x15'
- Discussion on funding opportunities for Nuclear Physics in Country X
- Conclusion
- Sometimes
  - Presentation by ministry
  - Presentation by funding agency (FWF?)



# Future representation in NuPECC

- Expert committee of ESF
  - Previous members: FWF, ÖAW
  - Alternating representation
- ESF was dismantled
  - FWF part of driving force, left
  - ÖAW left but continues paying fees in NuPECC (~5 k€/y)
- NuPECC stays affiliated to new ESF – ScienceConnect [esf.org](https://esf.org)
- EW member since 2006, plan to step down after LRP2024
- New representative
  - Funding: fee + 3 meetings/year
- Approach again FWF



## JENAS Expressions of Interest








### List of submitted Eol:

1. Dark Matter - iDMEu (<https://indico.cern.ch/event/869195/overview>)
2. Gravitational Waves for fundamental physics (<https://agenda.infn.it/event/22947/overview>)
3. Machine-Learning Optimized Design of Experiments - MODE (<https://userswww.pd.infn.it/~dorigo/MODE.html>)
4. Nuclear Physics at the LHC (<https://indico.ph.tum.de/event/4492/>)
5. Storage Rings for the Search of Charged-Particle Electric Dipole Moments (EDM) (<https://indico.ph.tum.de/event/4482/overview>)
6. Synergies between the Electron-Ion Collider and the Large Hadron Collider experiments (<https://indico.ph.tum.de/event/7004/>)









Eols in the form of a brief letter are to be submitted to the chairs of the committees/consortia. In the letter you can elaborate on the synergy topic, the objectives, the initial thoughts and the potential communities involved. This letter is not the end of the process, but potentially the start of further communications on the expressed interest.

### JENAS Eol Task Force representatives




#### For ECFA:

- Peter Levai (2) 
- Isabell Melzer-Pellmann (1) 
- Nick van Remortel (2) 
- Mike Seidel (5) 
- Marek Tasevsky (3) 
- Claude Vallee (1) 
- Mikko Voutilainen (3) 

#### For NuPECC:

- Navin Alahari (4) 
- Dave Ireland (6) 
- Eugenio Nappi (6) 
- Franck Sabatié (3,6) 
- Boris Sharkov (1,2) 
- Hans Stroehrer (5) 
- Eberhard Widmann (5) 
- György Wolf (2,4) 

#### For APPEC:

- Jo van den Brandt (2) 
- Jürgen Brunner (3) 
- Tomek Bulik (2) 
- Francesca Calore (1) 
- Fiorenza Donato (4) 
- Elena Cuoco (3) 
- Uwe Oberlack (1) 
- Xin Wu (4) 

### JENAS Eol Meetings

- [Kick-off Meeting](#), all Eols, August 26, 2020  
Individual Kick-off Meetings:
- [Kick-off Meeting](#), Eol 1, September 23, 2020, 10 - 12 h
- [Kick-off Meeting](#), Eol 2, September 22, 2020, 10 - 12 h
- [Kick-off Meeting](#), Eol 3, September 15, 2020, 14 - 16 h
- [Kick-off Meeting](#), Eol 4, October 2, 2020, 9 - 11 h
- [Kick-off Meeting](#), Eol 5, September 25, 2020, 14 - 16 h

## Diversity Working Group

ECFA, NuPECC and APPEC recognise the importance of diversity as a motor to boost productivity and innovation, fight prejudice and discrimination and contribute to the improvement of social and economical standards.

The three organisations joined together to propose a [Diversity Charter](#) to be signed by research organisations, collaborations and conferences within the fields of Particle Physics, Nuclear Physics and Astroparticle Physics, who value diversity and commit to promote equal opportunities at all levels.



In a first phase, diversity within the different signatories will be [monitored](#). To simplify the task of monitoring for all partners involved, a survey has been made available to be filled out on a voluntary and anonymous basis by affiliated people and participants to the signatories. Initially, just a few basic variables are proposed for data collection in order to simplify privacy issues. If any signatory entity prefers to monitor the data itself, it is free to use any other method and just communicate the results of its analysis.

The three consortia have already started their activities on this issue by asking large collaborations, namely those with more than 40 members to participate in the survey by having their members fill out the questionnaire prepared by the working group, so that one can have a good picture of diversity among collaborations. Due to the COVID-19 pandemic, no conferences are presently being organized. Hence, the part of our study having to do with conferences will be performed in the near future, after the restrictions are lifted.




The ECFA-NuPECC-APPEC Diversity Charter can be found [here](#). Additional information about the Diversity Monitoring can be found [here](#). The relevant surveys can be found [here](#) for Collaborations, [here](#) for Organisations and [here](#) for Conferences.

### Diversity WG members



#### From ECFA:

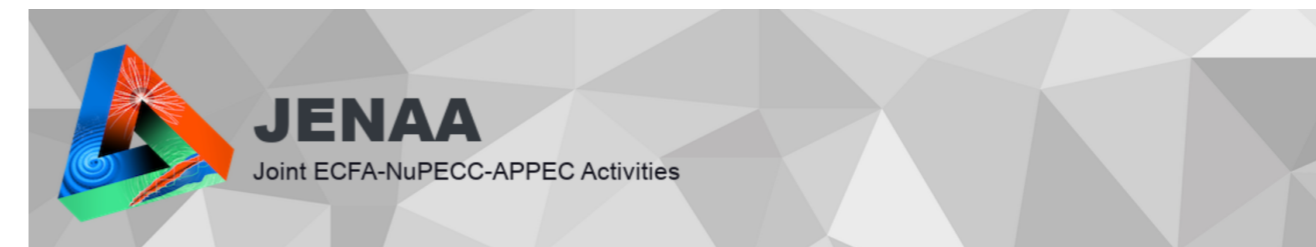
- Patricia Conde Muñio 
- Nadia Pastrone 

#### From NuPECC:

- Jens Jürgen Gaardhøje 
- Nasser Kalantar-Nayestanaki 
- Jochen Wambach 

#### From APPEC:

- Andreas Haungs 
- Katharina Henjes-Kunst 



## Recognition Working Group

The aim of this ECFA-NuPECC-APPEC working group is to find ways to improve the recognition of individual achievements in large collaborations.

- Key objectives of this working group:
  - create awareness,
  - initiate discussions inside collaborations,
  - exchange and discuss best practices among all three communities, and reflect on alternative or additional procedures,
  - potentially perform a second survey in 2020-2021 to monitor the progress on the topic,
  - however, the group will not be an ombuds-committee for individual problems.
- Report back to ECFA-NuPECC-APPEC
- The collaborations remain themselves responsible for the actions of the working group and to implement (or not) recommendations

The working group was installed in July 2019 in Ghent. It continues previous work by ECFA, which among other activities performed a community-wide [survey in 2018](#).