

JENAA

Joint ECFA-NuPECC-APPEC Activities



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Paris Sphicas, Patricia Conde Muino | ECFA

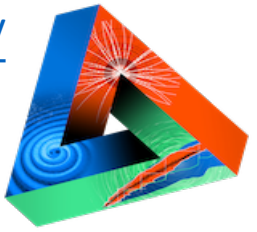
Marek Lewitowicz, Sissy Körner | NuPECC

Andreas Haungs, Katharina Henjes-Kunst | APPEC

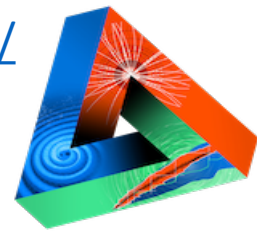
April 30, 2024 | EuCAIF_conf -- Amsterdam (30/4-3/5/2024) and online



EUROPEAN AI FOR
FUNDAMENTAL PHYSICS
CONFERENCE
EuCAIFCon 2024



- Cooperation of nuclear, particle and astroparticle physics communities, represented by the three committees / consortia ECFA, NuPECC, APPEC
 - On purely volunteering basis
- Joint Seminars
 - last: 3-6 May 2022 in Madrid <https://indico.cern.ch/event/1040535/>
 - next: early 2025, currently call for hosting institutes
- Expression of Interest Topics
 - To explore topical synergies between our disciplines,
 - Support and moderate financial support by the ENA committees
- Working Groups
 - Diversity Charter
 - Recognition working group
 - Computing working group
- Mutual contribution to the roadmapping
 - NuPECC long range plan <https://indico.ph.tum.de/event/7593/>
 - European Strategy for Particle Physics March 2024 CERN Council launched the new ESPP process
 - APPEC Roadmap Midterm Update <https://indico.cern.ch/event/1339060/>

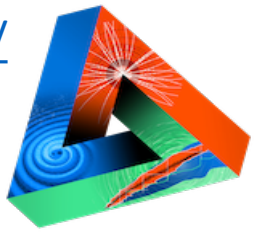


Expression of Interests (EoI)

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://mode-collaboration.github.io>)
 4. Nuclear Physics at the LHC (<https://indico.ph.tum.de/event/4492/>)
 5. EDM - Search of Charged-Particle Electric Dipole Moments (<https://indico.ph.tum.de/event/4482/>)
 6. Synergies of EIC with LHC - EIC; kick-off happened in June 2022 (<https://indico.ph.tum.de/event/7004/>)
 7. EuCAIF (2023): Machine learning as analysis tool (<https://indico.nikhef.nl/event/4875/>)
- **Contact persons from ENA communities**
 - **Request for presentations at JENASymposium 2025**
 - **Discussions on status, plans, requests regularly with ENA chairs**
- ➔ **currently all are validated as community overarching networks and supported by JENA**

JENA Computing Initiative

<http://nupecc.org/jenaa/>



- JENA Computing Workshop in Bologna: 12-14 June 2023
- <https://agenda.infn.it/event/34738/>
- Motivation: JENAS 2022 → There is a need for a European Workshop on (federated) Computing! → Preparation for JENAS 2025
- 60-70 participants plus up to 25 online
- Topics were all aspects of (federated) computing by talks, round table discussions, initiation of the JENA computing working group, ...
- Covering computing, HPC vs. HTC, software, data management, open data, sustainability

JENA Computing Workshop


12 Jun 2023, 12:00 → 14 Jun 2023, 18:00 Europe/Rome
Auditorium Biagi (Biblioteca Salaborsa)
Andreas Haungs (Karlsruhe Institute of Technology), Claudio Grandi (Istituto Nazionale di Fisica Nucleare), Luca Dell'Agnello (Istituto Nazionale di Fisica Nucleare)

Description


ECFA European Committee for Future Accelerators

NuPECC

APPEC

 **JENAA**
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To be held as in-person meeting in Bologna, Italy.

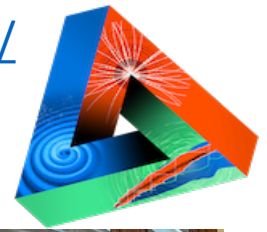


Motivation

At the Joint ECFA-NuPECC-APPEC (JENA) Seminar in May 2022 in Madrid (<https://indico.cern.ch/event/1040535/>), both the plenary presentations and the closed session of funding agency representatives revealed that there is an increased need for discussions on the strategy and implementation of European federated computing at future large-scale research facilities.

JENA Computing Workshop

<http://nupecc.org/jenaa/>



• Results:

Target: European white paper on (ENA) computing as input for the next JENA Symposium

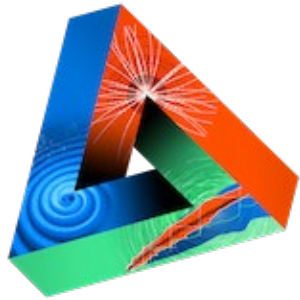
Dedicated working groups (to look deeper) on five areas:

- **HPC:**
https://indico.scc.kit.edu/e/JENA_computing_wp1/
- **Software:**
https://indico.scc.kit.edu/e/JENA_computing_wp2/
- **Data Management:**
https://indico.scc.kit.edu/e/JENA_computing_wp3/
- **ML & AI:**
https://indico.scc.kit.edu/e/JENA_computing_wp4/
- **Training:**
https://indico.scc.kit.edu/e/JENA_computing_wp5/

• Next:

- Working groups have started activities...
- Still possible for participation in the various working groups





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We thank EuCAIF for the EoI-initiative
and wish good luck and success for this
conferences and future activities!

