

Report from KHuK

Tetyana Galatyuk (TU Darmstadt / GSI)
on behalf of KHuK

KHuK Annual Meeting 2022, 8.-10. December 2022, Bad Honnef

Welcome to the KHuK Annual Meeting 2022

- **We warmly welcome our guests**
 - Eckart Lilienthal und Simon Bohleber (BMBF)
 - Manuel Krämer und Christian Hahn (DFG)
 - Natascha Rudolf und Denise Keller (PT.DESY)
 - Ilja Bohnet (HGF)
 - Gert Aartz (ECT* Director)
 - Marek Lewitowicz (NuPECC Chair)

- **and the representatives of the committees**
 - Lutz Feld (KET Chair)
 - Kathrin Valerius (KAT ambassador to KHuK)
 - Farah Afzal (yHEP representative)

- **and all colleagues of the KHuK community**
 - 72 in Bad Honnef, 38 via zoom



Gewählte Mitglieder des KHuK



Tobias Stockmanns (interim Wahlkreis 9) - welcome to the team!
Many thanks to Kilian Schwarz for many years of commitment!

ex-officio Mitglieder des KHuK

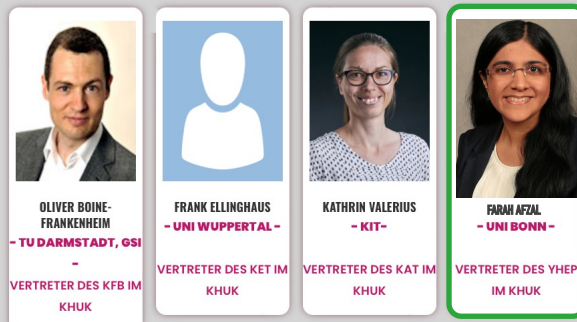


Bernhard Ketzer (DPG Verbandsvorsitz) - welcome to the team!
Many thanks to Achim Schwenk for many years of commitment!

- KHuK meets four times/year
- Integration of the FSP speakers + ISOLDE and AMBER representatives
 - Aim: improve the exchange of information
 - Invitation to one of the regular KHuK meetings

KHuK is always happy to receive ideas/requests etc. from the community!

Beratende Mitglieder des KHuK



Farah Afzal (Vertreter des yHEP in KHuK) - welcome to the team!
Many thanks to Annika Thiel for many years of commitment!

ErUM-Data, DIG-UM (KHuK mandates)



<https://www.erumdatahub.de>

Organization DIG-UM

Overview Board (OB)8 ErUM Committee Chairs, 1 Resource Provider Board Chair, 1 Spokesperson, 1 BMBF Representative, 1 PT-DESY Representative					
Coordination	Spokesperson / 5 Co-spokespersons	Digitization Board (DB) 1 Spokesperson, 5 Co-spokespersons, 8 Experts from ErUM committees, 1 Resource Provider Representative	Resource Provider Board (RB) 10 Resource Provider Representatives		
	Annual Conference of the ErUM-Data Working Groups				
Topic Groups	Federated Infrastructures Coordinators, Experts Compute power Utilization Workflows ...	Big Data Analytics Coordinators, Experts Algorithms Autonomization Control & Preservation ...	Research Data Coordinators, Experts Data models Management Curation ...	User Interface Coordinators, Experts Scientists' questions Developers' work User support ...	Knowledge Distribution Coordinators, Experts Workshops Schools ...

Chairs of 8 committees (KFS, RDS, KHuK, KET, KFN, KAT, KfB, KFSI)
Guests: BMBF, PT-DESY, chair of the RPB, speaker
OB: Uli Katz (chair), Shaukat Khan (deputy chair)

- **Thorsten Kollegger**
- **Dmytro Kresan**
(nominated by centers, GSI/FAIR)

- **Jan Steinheimer**
- **Tobias Stockmanns**
(nominated by KHuK)

9 Dec, 9:40 am



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Further KHuK mandates

- KHuK representation in the KET Computing panel ~ Thorsten Kollegger
- KHuK representation in the GridKa OB ~ in progress
- KHuK nomination for DIG-UM Topic Group Convener ~ in progress

PUNCH4NFDI (KHuK mandates)

Particle, Astroparticle,
Hadron & Nuclear Physics



**Particles, Universe,
NuClei and Hadrons
for the NFDI**

A consortium in the NFDI.



Astronomy



2018

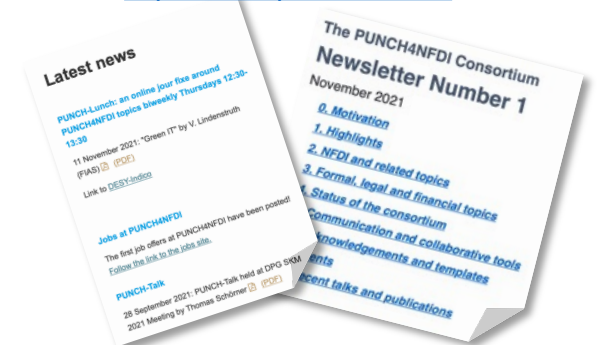
2020

2021

Official funding decision

2 July 2021: An official mail from the DFG about the GWK decision on the funding of PUNCH4NFDI ha

<https://www.punch4nfdi.de>



Mailing lists: self-subscription with a mail to sympa@desy.de (see details in Newsletter, available on the web)

Prime goal: setup of a federated and "FAIR" science data platform, offering the infrastructures and interfaces necessary for the access to and use of data and computing resources of the involved communities and beyond

The PUNCH4NFDI Consortium

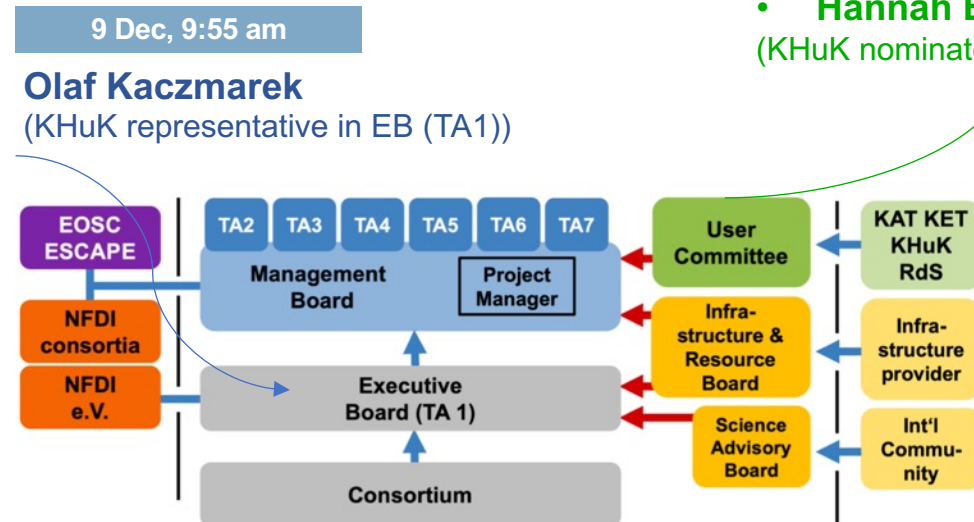
Spokesperson:

PD Dr. Thomas Schörner (DESY, thomas.schoerner@desy.de)
DESY, Notkestr. 85, D-22607 Hamburg

Contact:

Mail: punch4nfdi@desy.de
Web: www.punch4nfdi.de
Twitter: [#punch4nfdi](https://twitter.com/punch4nfdi)

- **Olaf Kaczmarek**
(KHuK representative in EB (TA1))



- **Ralf Aeverbeck**
- **Hannah Elfner**
(KHuK nominated, elected by EB)

- FAIR project evaluated June, 24-25, 2022, <https://indico.gsi.de/event/15218/>
- International Scientific Review Panel on the Future of FAIR (chairs: R. Heuer, B. Tribble)
 - What is the expected competitiveness of the different pillars 3 and 8 years after first beam
 - What do the different pillars need in terms of parts of the infrastructure, and of beam properties
 - What are your options to replace the Russian components not yet received, schedule and resources
 - Describe the milestones for the elements of the FAIR complex corresponding to each “pillar”

[Report of the international group of experts, 26 Oct 2022](#)



KHuK Annual Meeting 2022 Session on Response to the "First-Science and Staging Review of the FAIR Project"

9 Dec, 11:30 am

12:00	NUSTAR: status & response to the "First-Science and Staging Review of the FAIR Project" Prof. Norbert Pietralla Physikzentrum Bad Honnel	11:30 - 12:00
	CBM: status & response to the "First-Science and Staging Review of the FAIR Project" Piotr Gasik Physikzentrum Bad Honnel	12:00 - 12:30
	APPA: status & response to the "First-Science and Staging Review of the FAIR Project" Thomas Stöhlker Physikzentrum Bad Honnel	12:30 - 13:00
13:00	PANDA: status & response to the "First-Science and Staging Review of the FAIR Project" Ulrich Wiedner Physikzentrum Bad Honnel	13:00 - 13:30

Several events scheduled Feb/Mar 2023 (including JSC)
BMBF strategy meeting time-line

Antwort des BMBF auf KET&KHuK-Brief bzgl. Bewilligungsverfahren

- Gespräch mit dem Projektträger KET, KHuK, yHEP am 1 Mar 2022, 14 – 15 pm
- Alternativer Zeitplan von KET: Antragsfrist schon im Juli statt am 1. November, um Zuwendungsbescheide spätestens drei Monate vor Projektbeginn zu ermöglichen
- Den Komitees wird empfohlen, noch in diesem Jahr mit den Strategiediskussionen zu beginnen.



Antwort des BMBF auf Brief über Bewilligungsverfahren



	FP2021-2024	Δt	wünschenswert	FP2024-27
Strategiegespräch	28./29. Mai 2020			Januar 2023
Bekanntmachung	29. September 2020	+ 4 Monate		Mai 2023
Antragsfrist	1. November 2020	+ 1 Monat	+ 2 Monate	Juli 2023
GA-Sitzungen	25. Januar bis 3. März 2020	+ 4 Monate		Okt./Nov. 2023
Bewilligung	Mitte Juni bis Mitte Juli 2020	+ 4 Monate		März 2024
Förderbeginn	1. Juli 2020	+ 0 Monate	+ 3 Monate	1. Juli 2024

KHuK at Restricted European Committee for Future Accelerators RECFA Visit in Germany

- RECFA visit in Germany, Apr 1, 2022 in Berlin
- Program organized by KET: <https://indico.desy.de/event/32771/timetable/#20220401>
- KHuK is scheduled with 15 min talk: Main topic “KHuK activities at CERN + short update on FAIR”, the focus is on the German participation in ALICE → ALICE3, COMPASS → AMBER, ISOLDE, current, and the plans for the next years.
- Very positive feedback from RECFA and BMBF
- [RECFA recommendations](#)



1 - 2	April	2022	Germany Executive summary - Letter	Karl Jakobs
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- Germany is a stronghold of particle physics in Europe, and ECFA is very impressed by its vibrant community, broad science programme and many high-quality contributions to front-line research in particle, astroparticle and nuclear physics.
- The achievements of German institutes rely on sustained and solid funding by BMBF. In particular, the funding via the collaborative research structures (*Verbundforschung*, via FSPs in the ErUM-Pro and ErUM-Data programmes) is essential to enable German universities to participate in world-leading science programmes in particle physics.

The funding of large detector upgrade projects via dedicated BMBF and Helmholtz infrastructure programmes is very successful and we suggest applying such a funding model for future upgrades too.

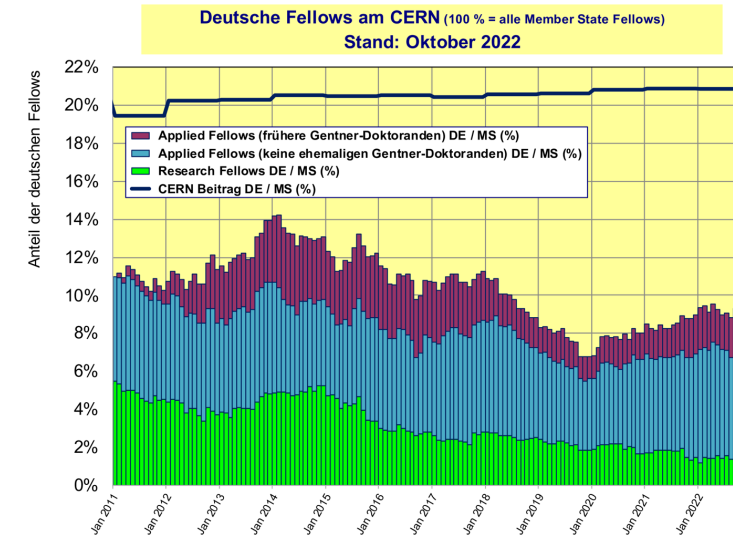
Plenary ECFA meeting, CERN, 21 Jul 2022, Chair Karl Jakobs:

- Together with CERN, more efforts should be made to increase the proportion of Germans among the CERN-employed personnel, in particular in the technical and engineering departments.
- Particular strength: large number of PhD students; efforts should be made to keep the number at the present level with adequate salaries;
Mitigation measures should be explored and implemented to increase the rather low number of permanent scientist positions in universities.

German staff at CERN

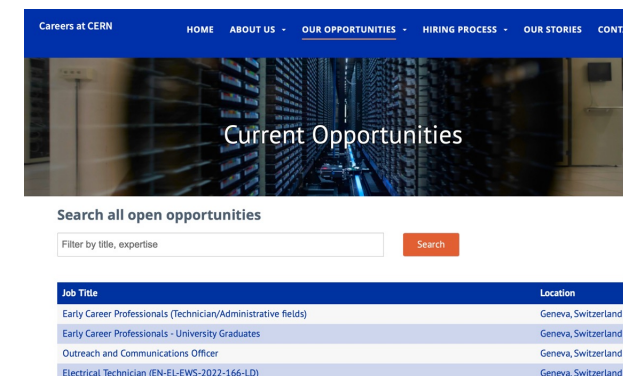
- In preparation for the RECFA visit to Germany on April 1, KET is examining, among many other issues, the situation of German representation among the CERN staff → the German share is far below the German contribution to the CERN budget.
- **German share of CERN Staff**, Fellows and PhD students is with **7.3%** much lower than the **German contribution to the CERN budget** of about **20%**
- On 11 Feb, 16 Mar - discussions with BMBF Referat 713 about the staff situation at CERN (Prof. Dr. Klaus Desch, German representative in CERN Council, Prof. Dr. Lutz Feld, KET chair, Prof. Dr. Tetyana Galatyuk, Chair of the KHuK, Dr. Valerie Lang, yHEP representative in KET, Prof. Dr. Markus Schumacher, KET Vice-Chair).
- KET, KHuK and yHEP support efforts to strengthen the German share of CERN staff.

<https://german-dac.web.cern.ch/statistiken>



Please spread the information about career opportunities at CERN:

<https://careers.cern/alljobs>



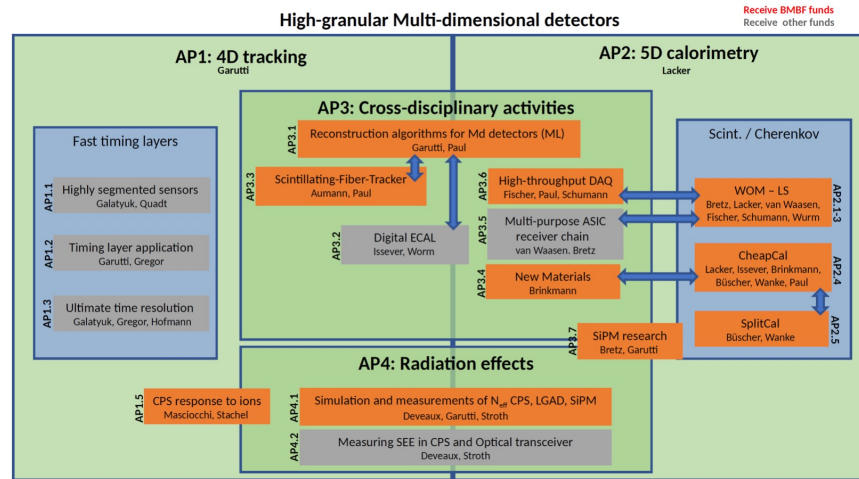
KET-KHuK cross community activities



F&E für hochsegmentierte mehrdimensionale Detektoren für zukünftige Experimente

<https://www.physik.hu-berlin.de/de/eephys/genericdetectorrnd>

High-granular Multi-dimensional detectors



KET-KHuK Querschnittsaktivitäten

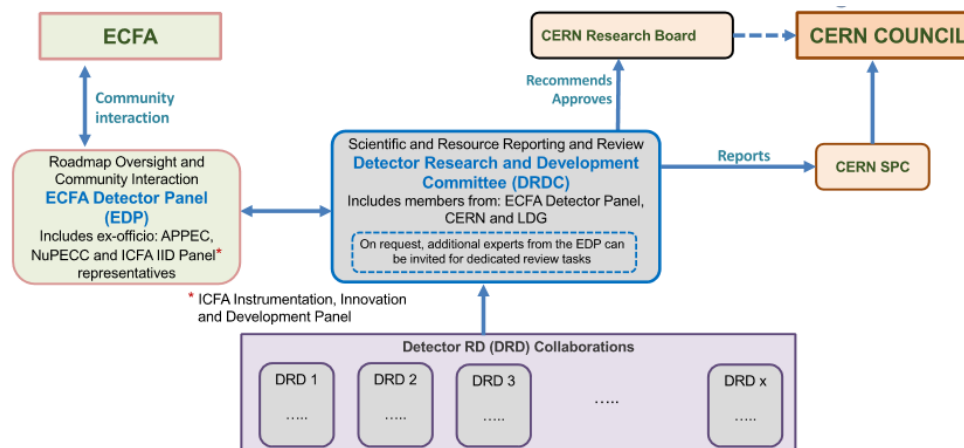
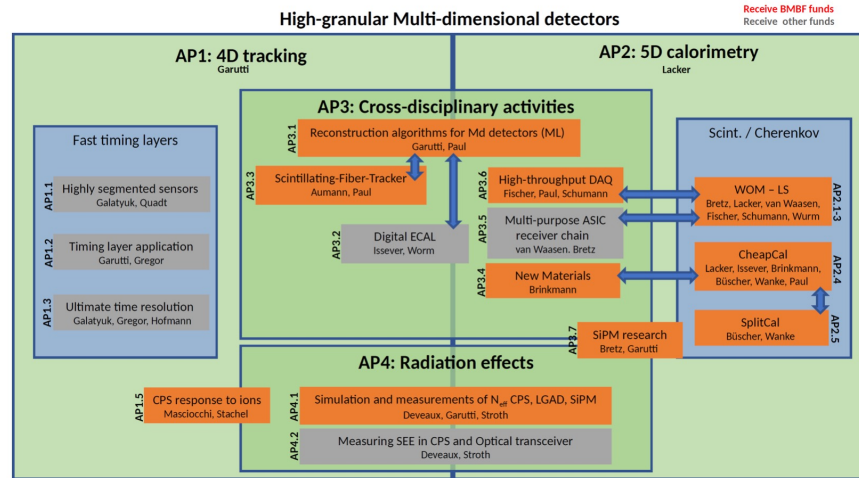


F&E für hochsegmentierte mehrdimensionale Detektoren für zukünftige Experimente

<https://www.physik.hu-berlin.de/de/eephys/genericdetectorrnd>

Implementation of the 2021 ECFA Detector R&D Roadmap

<https://cds.cern.ch/record/2784893>



- KHuK strategy
- NuPECC vision
- Meeting KHuK & KET (31. Jan or 1 Feb.)

10 Dec, 14:00 am

Marek Lewitowic, 9 Dec, 16:40 am

ECT* support

ECT*
EUROPEAN CENTRE
FOR THEORETICAL STUDIES
IN NUCLEAR PHYSICS AND RELATED AREAS

Herrn
Eckart Lilienthal
Bundesministerium für Bildung und Forschung
Postfach 10 15 53
53175 Bonn
Germany

November 18, 2021

Dear Mr Lilienthal,

I am writing this letter as Director of ECT*, the European Centre for Theoretical Studies in Nuclear Physics and Related Areas in Trento, Italy. ECT* is a unique centre in Europe bringing together the areas, in the broadest sense, of nuclear physics, particle physics, and a vibrant local research community, the centre is a place for researchers in

Since 2006, ECT* is providing financial support to researchers in the field of nuclear physics. These are made via a variety of 5 years. The current funding period (to be put in place, as the letter

A second reason is that the centre has been re-evaluated and its future, with its technology, artificial intelligence, quantum many-body physics, and other particularly challenging areas, we have started a programme on High-Energy

Dear Mr Lilienthal,

We are writing this letter in support of the European Centre for Theoretical Studies in Nuclear Physics and Related Areas (ECT*) in Trento, Italy. ECT* is a unique centre in Europe bringing together the areas, in the broadest sense, of nuclear physics, particle physics, and a vibrant local research community, the centre is a place for researchers in

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- Support from BMBF secured for 2023 (122k€) and
- Until 30.06.2024 (61k€)
- + 17k€ from GU Frankfurt (part of the overhead)

Gert Aarts, 9 Dec, 10:30 am

- Process to renew MoU for 2024-2028 will start in 2022
- Continued operation and financial stability needs to be ensured (topic for the strategy discussion). We are in contact with BMBF, consulting with PT-DESY on the best strategy
- MoU with BMBF will be aligned to the ErUM-Pro funding periods



Many thanks to Dirk,
as well as to Achim, Ulf, Jochen and Joachim
for guiding and supporting the process!

Application for support
of the European Centre for Theoretical Studies in
Nuclear Physics and Related Areas (ECT*),
Trento, Italy, for the year 2023

DESY
PROJEKTTÄGER

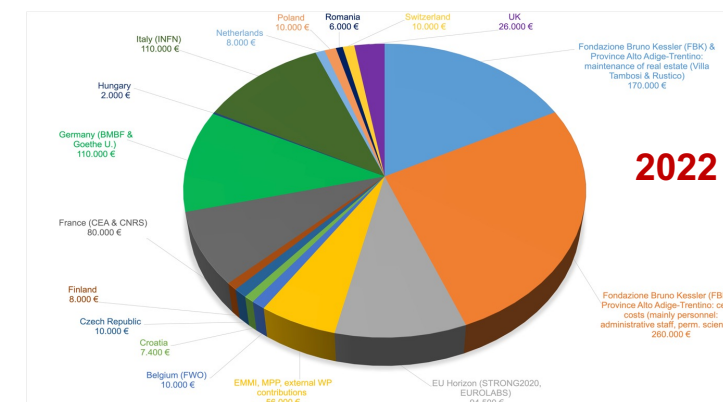
DESY Projektträger (2023) Herr/Hr
Johann Wolfgang Goethe-Universität Frankfurt am
Main
60629 Frankfurt am Main

Zuwendungsbescheid

Bundesministerium
für Bildung
und Forschung

Tel. +49 42 8969-3702
info@bmbf.de
post@bmbf.de

18.11.2022



Striving towards Environmental Sustainability in High Energy Physics, Cosmology and Astroparticle Physics (HECAP)

Important: Statement of intent

The climate crisis and the degradation of the world's ecosystems require humanity to take immediate action. Given this, the High Energy Physics, Cosmology and Astroparticle Physics (HECAP) communities have a responsibility to limit the negative environmental impacts of their research.

Sustainability in HECAP & Hadron and Nuclear Physics

Striving towards Environmental Sustainability in High Energy Physics, Cosmology and Astroparticle Physics (HECAP)

Important: Statement of intent

The climate crisis and the degradation of the world's ecosystems require humanity to take immediate action. Given this, the High Energy Physics, Cosmology and Astroparticle Physics (HECAP) communities have the negative environmental impacts of their research.

Striving towards Environmental Sustainability in High Energy Physics, Cosmology and Astroparticle Physics (HECAP), and Hadron and Nuclear Physics

Important: Statement of intent

The climate crisis and the degradation of the world's ecosystems require humanity to take immediate action. The international scientific community has a responsibility to limit the negative environmental impacts of its research.

The **High Energy Physics, Cosmology, Astroparticle Physics (HECAP)** and **Hadron and Nuclear Physics** communities make use of common and similar experimental infrastructure, such as accelerators, and rely similarly on the processing of big data. Our communities therefore face similar challenges to improving the sustainability of our research.

Dear physicists,

.... The draft is open for reading, learning, commenting, and participating: <https://sustainable-hecap.github.io>

Kind regards,
Frauke Poblitzki,
on behalf of all those working on this document.

Best Practice 2.4: The Green-IT Cube at GSI/ FAIR

The Green-IT Cube [44] at GSI was constructed in 2014 to host the computing systems of the FAIR facility under construction close to GSI, as well as numerous other scientific computing systems. It has a total capacity of 12 MW and 768 racks, distributed over 6 floors. The pPUE of the installation reaches 1.07 at a load of <25%, which meets the design value. In acceptance testing at higher loads an even better PUE has been observed.

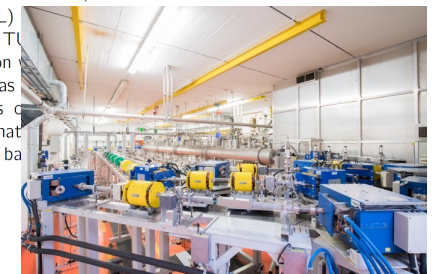
This became possible due to the award-winning innovative IT Cube, which was developed at the Frankfurt Institute for Advanced Studies (FIAS) by Volker Lindenstruth. The innovative design based on water-cooled heat exchangers allowed not only for a low PUE, but also for a compact design which reduced the ground print of the compact data center. It reduced the building material needed, further reducing the carbon footprint. Parts of the excess heat are used to heat office buildings.

The patented design has received many innovations awards and was successfully transferred into industry.



Best Practice 6.1: Realization of a multi-turn energy-recovery accelerator

The operation of particle accelerator facilities is inherently resource-intensive, and thus pose a challenge to sustainability. In line with acknowledging our responsibility for sustainable usage of energy resources, the development, establishment, and demonstration of a scalable multi-turn Energy Recovery Linac (ERL) for energy recycling was implemented at the S-DALINAC accelerator at TU Darmstadt [139]. An efficient energy-recycling in multi-turn operation of up to 87 % of the beam power-consumption in the main LINAC has been demonstrated. This result, together with further developments of ERLs (ER@CEBAF, USA [140]; MESA ERL, Germany [141]; International Collaboration [142]; for an overview, see [143, 144]) is a promising basis for high-power beams that truly support sustainability aspects.



KHuK strategy process

- KHuK Annual Meeting 2021
 - get input on new initiatives and developments (also from neighboring fields)
 - enter into a discussion anticipating the upcoming ~~KHuK town meetings~~
- **Instead** → Aktualisierung der KHuK-Empfehlungen
 - Kick-off meeting of KHuK together with FSP speakers, representatives of AMBER and ISOLDE.
 - Follow-up meeting in November
 - Draft of the KHuK-Empfehlungen sent to khuk-gl.gsi.de list
 - Please take a critical look
 - Bring suggestions/ideas
- Goal: (early 2023) provide BMBF with a coherent agreed-upon view on the hadron and nuclear physics community on priority research topics and projects for strategy meeting
 - Will directly impact on
 - Strategy meeting with BMBF
 - New ErUM-Pro call (“Verbundforschung”)
 - Prioritisation of large projects
- Produce new brochure 2012 → 2022
 - Update and widen science case (i.e. BNS physics)
 - Stronger emphasis on knowledge transfer, sustainability, etc.
 - Target date Feb 2023 (prior strategy meeting)
- New <http://khukweb.de> web

Dedicated Session 10 Dec, 11:00 am



pdf **and** interactive (online) version

Online version allows more frequent updates, in particular prior new BMBF ErUM-Pro calls

Contribute with figures, animations, movies, ect.

10. – 12. November 2022: Tag der DPG in Bad Honnef

- SMuK u.a. Sektionen
- Konvent
- Vorstandsrat
- Preisverleihung + Festvortrag Karsten Schwanke

Themen:

- Frühjahrstagung Dresden 2023: SMuK, GR, ET, MP, SM, P u.a.
 - Deadline für Abstracts 15. Dezember 2022
 - Thementag Künstliche Intelligenz $\Rightarrow$ Vorschläge für Hauptvorträge + eingereichte Beiträge
- Tagungsplanung
 - 11.03.-15.03.2024: Gießen HK + ?
 - **2025++ NN**
- In Zukunft: max. 2 SMuK-Tagungen, große SMuK Tagung alle 3 Jahre, Tagungsorte?
- Verhandlungen ab 2023 rein digital (PDF und App)
- Prof. Klaus Richter (Regensburg) designierter Präsident April 2024 – März 2026

- Neue Publikation der DPG: “Physik: Erkenntnisse und Perspektiven” (Arbeitstitel)
 - Nachfolge der Denkschrift von 2001
 - Veröffentlichung Anfang 2025 (Quantenjahr)
 - Themenkoordinatoren (vorl.): S. Masciocchi, BK
 - Schreibteams gesucht: 4 – 5 Artikel aus “Teilchenphysik”
 - Genaue Struktur/Gliederung wird noch diskutiert
 - Autor:innen-Workshop am 20.-22.01.2023 (!), Anmeldung bis 09.01.2023

War in Ukraine

Allianz der Wissenschaftsorganisationen

Alexander von Humboldt-Stiftung
Deutsche Forschungsgemeinschaft
Fraunhofer-Gesellschaft
Hochschulrektorenkonferenz
Leibniz-Gemeinschaft

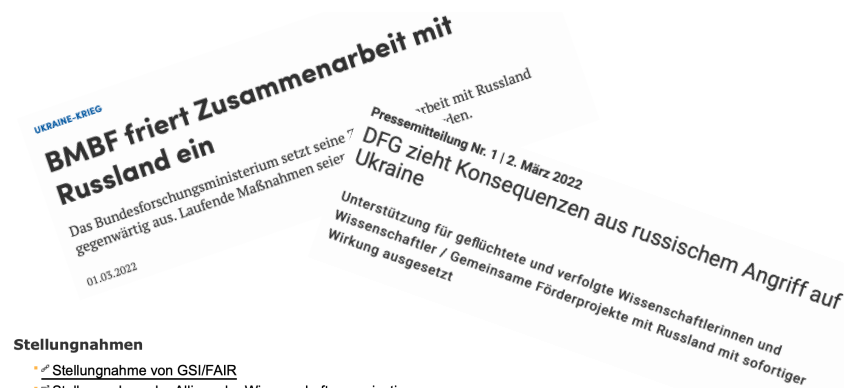
Nationale Akademie der Wissenschaften Leopoldina
Deutscher Akademischer Austauschdienst
Helmholtz-Gemeinschaft
Max-Planck-Gesellschaft
Wissenschaftsrat

Stellungnahme

25. Februar 2022

Allianz der Wissenschaftsorganisationen: Solidarität mit Partnern in der Ukraine - Konsequenzen für die Wissenschaft

- On 24 Feb 2022 Russia with the support of Belarus started a brutal war against Ukraine, which is condemned by all European scientific organizations
- Discussion of KET representatives, FSP spokespeople, and KHuK chair with BMBF (Dietz/71, Lilienthal/711, Dieter/712, Trimborn-Witthaut/713) on 7 Apr 2022 and 12 Jul 2022 on possible responses to war



Stellungnahmen

- Stellungnahme von GSI/FAIR
- Stellungnahme der Allianz der Wissenschaftsorganisationen
- Statement of the European Shareholders of FAIR GmbH, except Russia (Englisch)

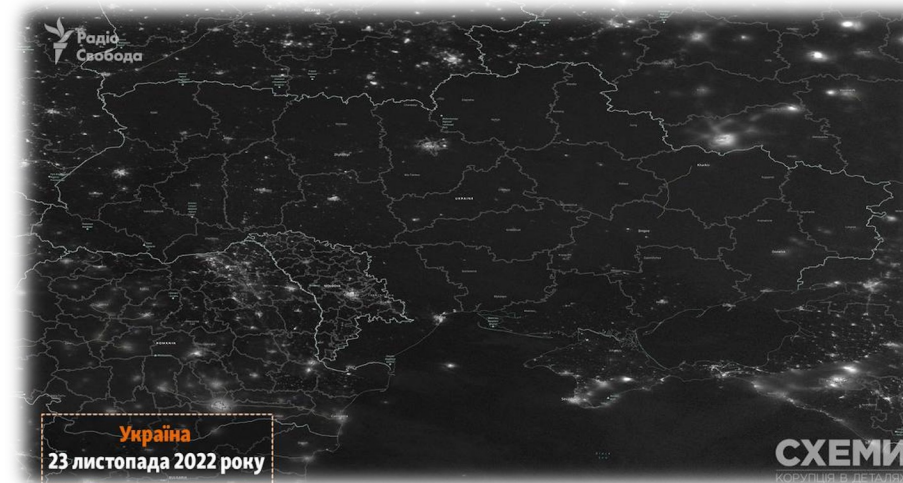


CERN Council takes further measures in response to the invasion of Ukraine

29 Mar 2022 | Network Updates | Update from CERN

These updates are republished press releases and communications from members of the Science|Business Network

By Communication from CERN



WILLKOMMEN AUF DEN SEITEN DES KOMITEES FÜR HADRONEN- UND KERNPHYSIK

DAS KHUK KOORDINIERT UND VERTRITT DIE BELANGE DER DEUTSCHEN HADRONEN- UND KERNPHYSIK/INNEN

Das Khuk besteht aus 9 gewählten und 4 ex-officio-Mitgliedern mit Stimmrecht, und wird durch beratende Mitglieder aus den Schwesterkomitees der Astroteilchenphysik (KAT), der Teilchenphysik (KET), der Beschleunigerphysik (KIB) sowie dem Komitee der Nachwuchsforscher (YHEP) ergänzt. Mehr Details hierzu in unserer Satzung.



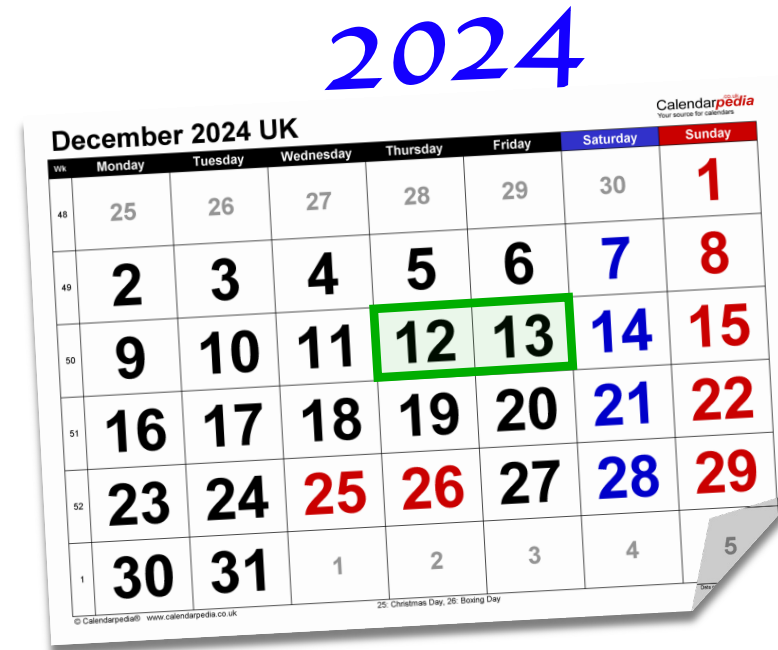
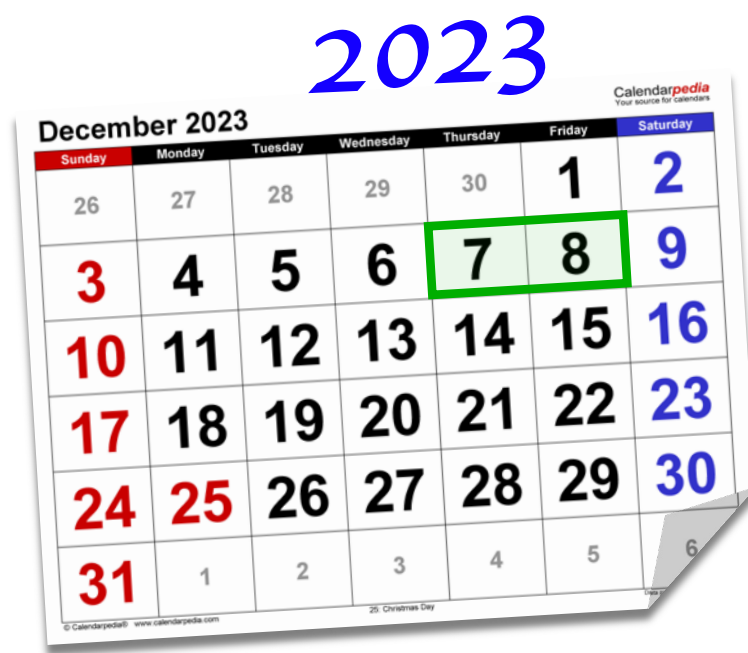
Solidarität mit der Ukraine

Das Khuk erklärt sich solidarisch mit der Ukraine. Für weitere Informationsquellen, insbesondere für Wissenschaftlerinnen und Wissenschaftler aus dem Bereich der Khuk verweisen wir auf

<https://www.gsi.de/en/work/organisation/ukraine>

<https://yhep.desy.de>

KHuK Annual Meetings



?

KHuK Jahrestagungen / Annual Meetings

There are 2 events in the future. [Hide](#)

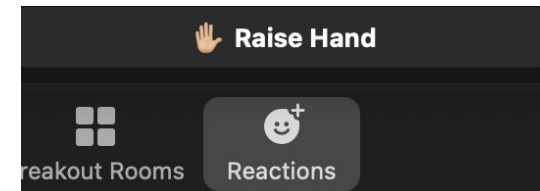
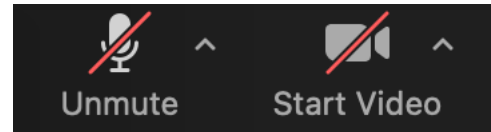
December 2023



07 Dec - 08 Dec [KHuK Jahrestagung / Annual Meeting 2023](#)

NEW

- Please mute when not speaking
- Please use the “raise hand” for request to speak
- If possible turn on camera for the time of speaking
- ***Zoom guide in the hall:***
Tobias Stockmanns t.stockmanns@fz-juelich.de



- Participants at Bad Honnef are kindly asked to use the table-microphone
- Talks can be uploaded directly to indico or to this [upload link](#)
(please include your Last Name to the file name)

I wish all of us a constructive and fruitful meeting!
Thank you for your attention