



News from KfB

SNIB2026 (Session: News from KFS, KFN, KFSI, KfB)

09. September 2026, 10:00-10:30, Location: Universität Hamburg, Audimax

Erik Bründermann for the KfB

KOMITEE FÜR
BESCHLEUNIGER-
PHYSIK

KfB

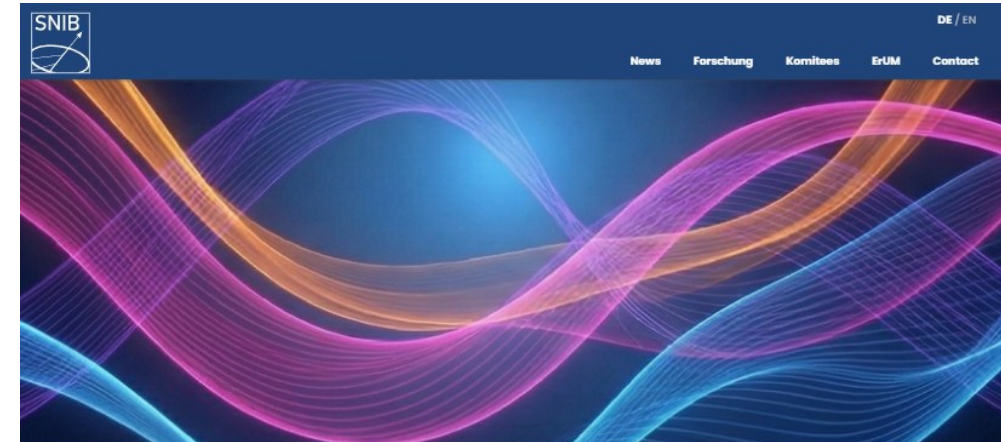


From SNI to SNI + B

- Strengthen ties with the SNI-Community => SNIB
- Special thanks to
 - Christian Gutt & the committees
 - Karin Griewatsch
 - Matthias Kreuzeder



- Paul Goslawski (5th KfB)
- Carsten Mai (5th & 6th KfB)
- Michael Mayerhofer & presenters



SNIB-Portal: Forschung mit Synchrotronstrahlung, Neutronen, Ionenstrahlen und Beschleunigern an Großforschungseinrichtungen

Wir bringen Forschende, Großforschungsanlagen und Förderer zusammen, damit sie gemeinsam die SNIB-Forschung vorantreiben.

Erkenntnisse über die Struktur der Materie und die grundlegenden Zusammenhänge in der Natur zu gewinnen, gehören zu den wesentlichen Bestandteilen unserer Bildung und Forschung. Dabei nimmt die physikalische Grundlagenforschung mit S: Synchrotronstrahlung, N: Neutronen, I: Ionenstrahlen und B: Beschleunigerphysik eine wichtige Stellung ein, denn sie ist auch Ausgangspunkt für technische Innovationen und für eine auf Nachhaltigkeit orientierte Entwicklung von Wirtschaft und Gesellschaft.



<https://snib-portal.de/>

The KfB FORUM

1. Dezember 2025 bis 31. Dezember 2099
Europe/Berlin Zeitzone

Please register
It is free

Our official website at
indico global (supported by CERN)

indico.global/e/kfbforum

Registration as forum member or guest*
(* if not in acc. physics, but in accelerator R&D)
Forum (Guests): 189 (18)

Professor (Emeritus): 35 (3) - Habilitation: 5
R&D: 188 - Teaching: 62 - Management role : 61
Completion with doctorate (Dr.): 168
Bachelor/Diplom/StEx/Master: 33
Places/cities : 26
Helmholtz: 127 - University: 90
International: 15 (CERN) - Laboratories: 4 (HIT, MPG)

Accelerator physics and R&D beyond KfB
DPG Arbeitskreis Beschleunigerphysik (AKBP)
943 members (data May 2025)

Helmholtz MT-ARD
316 members (data May 2026)

Übersicht

Anmeldung

Termine - Events

News

Auszeichnungen - Awards

KfB Archiv

Satzung - Statutes

KfB

Wahl 6.KfB

Wahl 5.KfB (2023-2025)

Wahl 5.KfB

Broschüre - brochure

Teilnehmerliste

Willkommen beim Komitee für Beschleunigerphysik (KfB) und dem Forum des KfB.

Dies ist die zentrale Seite des KfB. Wir ziehen nach und nach von www.beschleunigerphysik.de um.

Bitte werden Sie Mitglied oder Gast dieser website.

Die Kurzadresse dieser Website lautet: <https://indico.global/e/kfbforum>

Welcome to the committee for accelerator physics (KfB) and the KfB forum.

This is the KfB's main page. We are gradually moving from www.beschleunigerphysik.de.

Please become a member or guest of this website.

The shortcut address of this website is: <https://indico.global/e/kfbforum>

Beginnt 01.12.2025, 00:00
Endet 31.12.2099, 23:59
Europe/Berlin

Erik Bründermann
Allen Caldwell
Bastian Haerer
Florian Hug
Carsten Mai
Andreas Penirschke
Stephan Reimann
Frank Tecker
Marc Wenskat
Danyal Winters

Brochure 2016
kfb-broschuere_1.2.1_2016-07-01_compress...

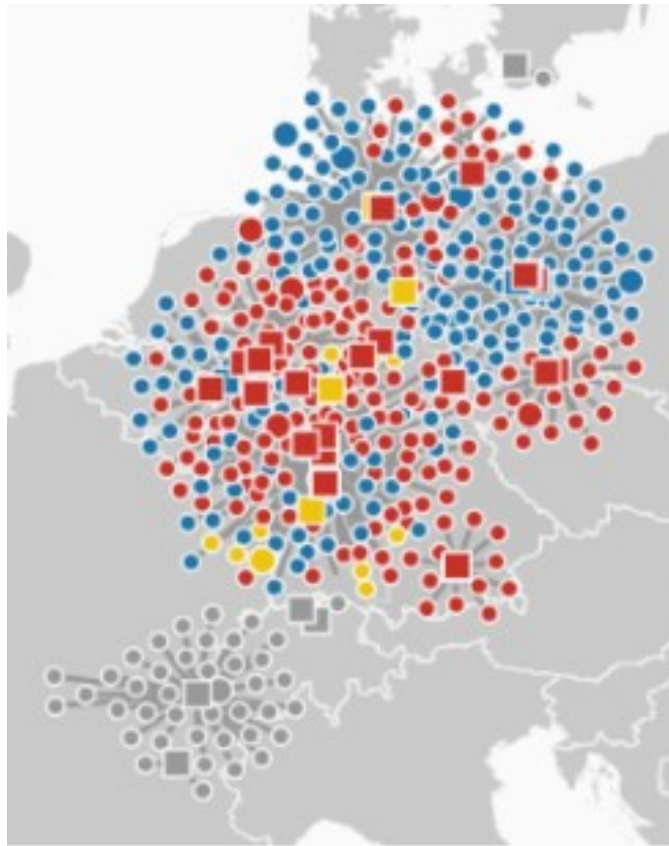
Teilnahmewunsch
Die Anmeldephase für diese Veranstaltung läuft derzeit.

207

Jetzt anmelden

Elections to the 6th KfB in Jan. 2026 for 2026-2028 period (3 years)

Accelerator R&D



From **Universities**, **Helmholtz**, **International**, **Laboratories**

Beschleunigerforschung

U



Dr. **Härer**, Bastian
KIT - Universität

U



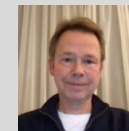
Prof. Dr. **Hug**, Florian
Universität Mainz

U



Prof. Dr.-Ing. **Penirschke**, Andreas
TH Mittelhessen

I



Dr. **Tecker**, Frank
CERN

L



Prof. Dr. **Caldwell**, Allen
MPI für Physik

H



Dr. **Bründermann**, Erik
KIT - Großforschung

H



Dr. **Mai**, Carsten,
HZB

H



Dr. **Reimann**, Stephan
GSI

H



Dr. **Wenskat**, Marc
DESY

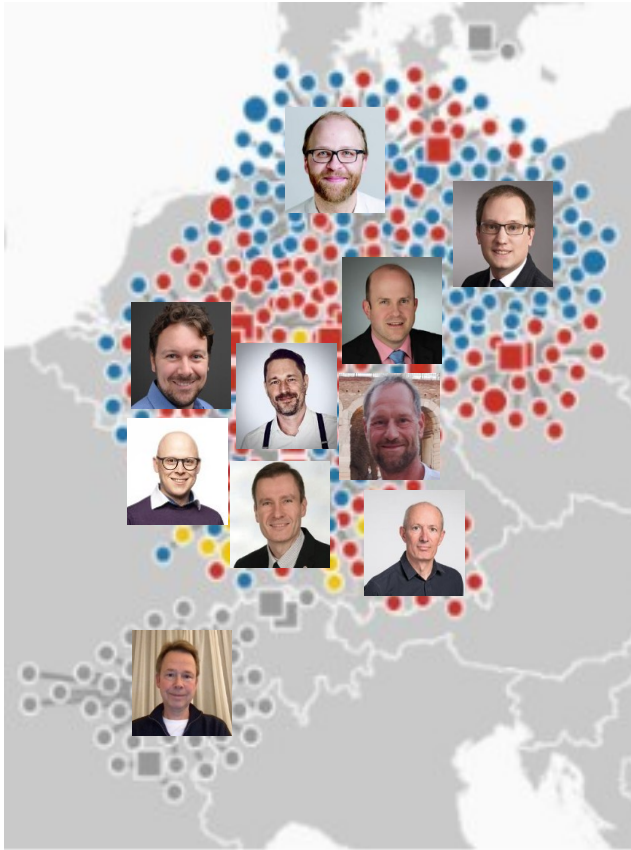
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Dr. **Winters**, Danyal
GSI

Your KfB colleague near you

Accelerator R&D



Beschleunigerforschung

From Universities, Helmholtz, International, Laboratories

Update of Statutes (Satzung) in preparation

– from B...physik/physics to B...forschung/research

Why?

- **Accelerator R&D (ARD) is highly inter- and multidisciplinary (!)**
... physics, materials science, engineering (electrical, mechanical, refrigeration, cryogenics, ...), computer science (data science/AI/HPC, ...), ...
- **If you are not educated in Accelerator “Physics” but active in Accelerator R&D**
register as a guest - after expected statute update change to member ...

What we also do ...

- **Research into technologies** (superconducting (sc) RF technology & magnets (high-temperature sc), energy recovery, plasma, lasers, cryogenic & vacuum systems, diagnostic & control systems, built-in sustainability, ...)
- Development of automation, robotics and AI for **autonomous accelerators**
- **Resource-efficient** acceleration and **technological sovereignty**
- **Training** for the design, construction and operation of accelerators

Closing remarks

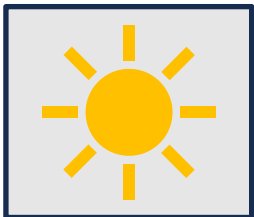
No ARD



With us
Particles



Photons



- **KfB roles** include contacts to politics, industry, and media
- **Recommendations on Accelerator R&D (ARD) topics**
- Links to KFS, KFN, KFSI, KET, yHEP, KHuK, KAT, DIG-UM/ErUM-Data-Hub, ...
- Promote **networking, early-career researchers** and **young talents**
 - **KfB Workshops**, e. g. ErUM-Pro (Teilchen, Materie, Transfer, Nachhaltigkeit) like recently for **R&D Beschleuniger 2027-2030** in ErUM-Pro Teilchen
- **Research into accelerator technologies** is in accordance with the **HTAD**
- If you feel Accelerator R&D ...
 - ... please register at the FORUM
 - ... - **you also find there: news, events, documents**

indico.global/e/kfbforum



Three slides following for the curious bunch

Three slides following for the curious bunch

German accelerator communities



The KfB acts as a point of contact for politicians, industry and the media when they wish to engage with the German accelerator physics community.

The KfB promotes networking within the scientific community, for example through workshops and regular meetings.



Image source: KfB workshop on collaborative research, ErUM-Pro, 2024.
https://indico.global/e/kfb_ws_teilchen2027



Arbeitskreis Beschleunigerphysik (AKBP)

The working group represents the interests of DPG members involved in accelerator physics within the DPG.



Image source: KfB DPG Spring Conference in Göttingen with the Accelerator Physics Working Group (AKBP), 2025.

HELMHOLTZ



The Matter and Technologies program (**MT**) conducts research into key technologies for accelerators, detectors and data science.

Accelerator research and development (**ARD**) pushes the boundaries of conventional accelerators and develops concepts for new accelerators and their applications.



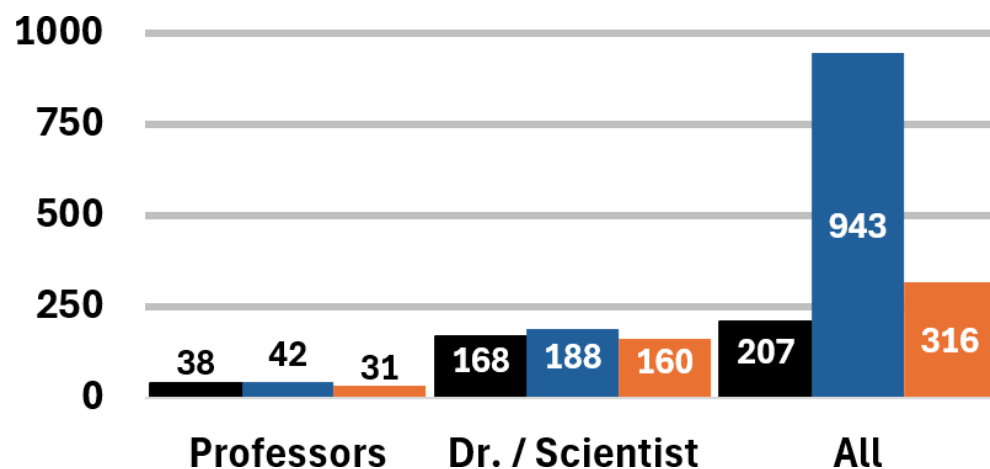
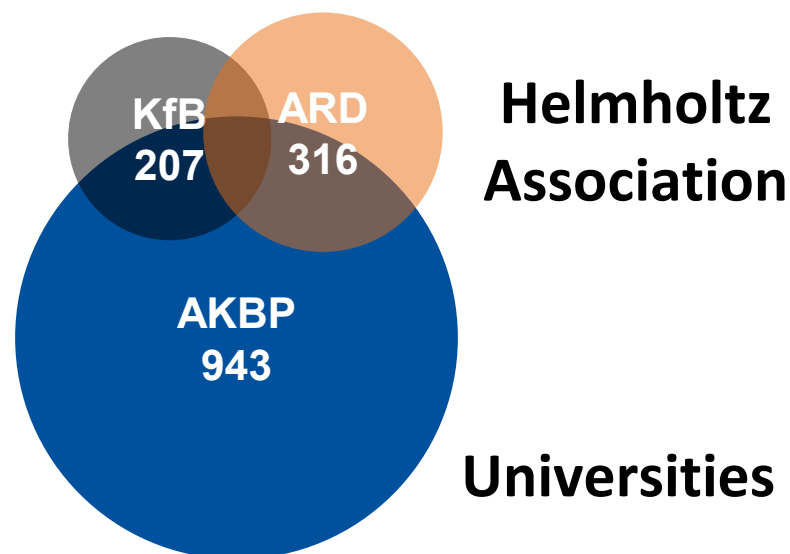
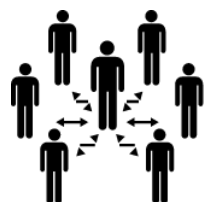
Image source : 11th Annual Conference of the Programme „Matter and Technologies“, 2025.
<https://indico.desy.de/event/49189/>

German accelerator communities

in numbers

Venn diagram overlap is illustrative only; some individuals may belong to all three communities like the KfB chair.

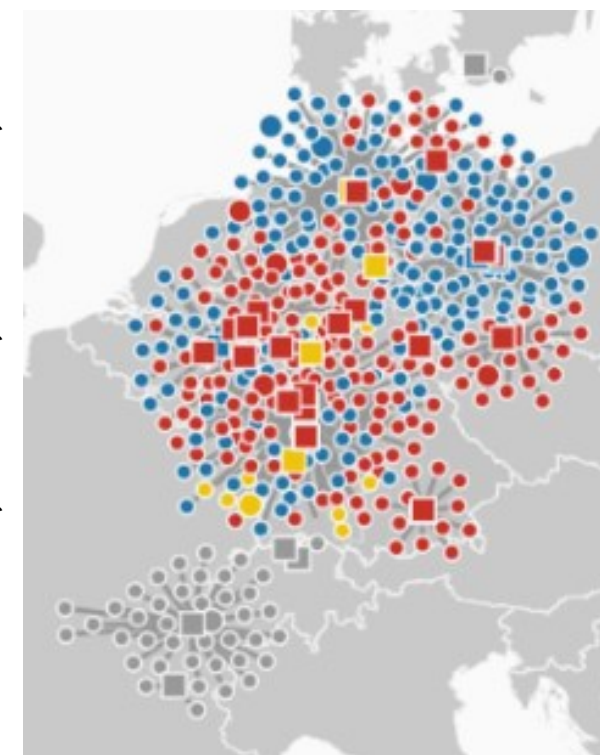
Germans at
CERN & ESRF
& ...



**KfB Forum members
in 26 cities**

Accelerator R&D

from **Universities**, **Helmholtz**, **International**, **Laboratories**



Beschleunigerforschung

KfB and Forum support teaching



KOMITEE FÜR
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PHYSIK**



CERN Accelerator School (CAS) – CAS exists since 1983

- Head of the CERN Accelerator School: *F. Tecker (KfB)*
- <https://cas.web.cern.ch/>

Joint Universities Accelerator School since 1994



- <https://esi-archamps.eu/juas-presentation/>

I.14 — Accelerator design workshop

Bastian Härer (KfB), Adrian Oeftiger, in Vol. 3 No. I–IV (2024)

Proceedings of the Joint Universities Accelerator School (JUAS)

Courses and exercises

[DOI: 10.23730/CYRSP-2024-003.661](https://doi.org/10.23730/CYRSP-2024-003.661)

From summer semester 2026 new trilateral

Physik-Masterstudiengang "Particle Accelerator Science"

Rhein-Main-Universities (Darmstadt, Frankfurt, Mainz)

& Accelerator Physics and Technologies at Universities

