ErUM:
Exploration of the Universe and Matter

Annual Meeting of the BMFTR Collaborative Research Center (ErUM-FSP) LHCb

Maren Meinhard
1st of October 2026

DESY PROJEKTTRÄGER

ErUM: Exploration of the Universe and Matter

Topical overview

01 BMFTR & PT.DESY

02 Framework programme: ErUM

03 Current activities in the ErUM field "Particles"

BMFTR & PT.DESY

DESY
PROJEKTTRÄGER

Who is who in ErUM

The Federal Ministry of Research, Technology and Space (BMFTR)

Dorothee Bär,
Federal Minister
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Dr. Silke Launert,
Parliamentary State Secretary
© Bundesregierung / Sandra Steins

Matthias Hauer,
Parliamentary State Secretary
© Bundesregierung / Guido Bergmann

Dr. Rolf-Dieter Jungk,
State Secretary
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Dr. Marcus Pleyer,
State Secretary
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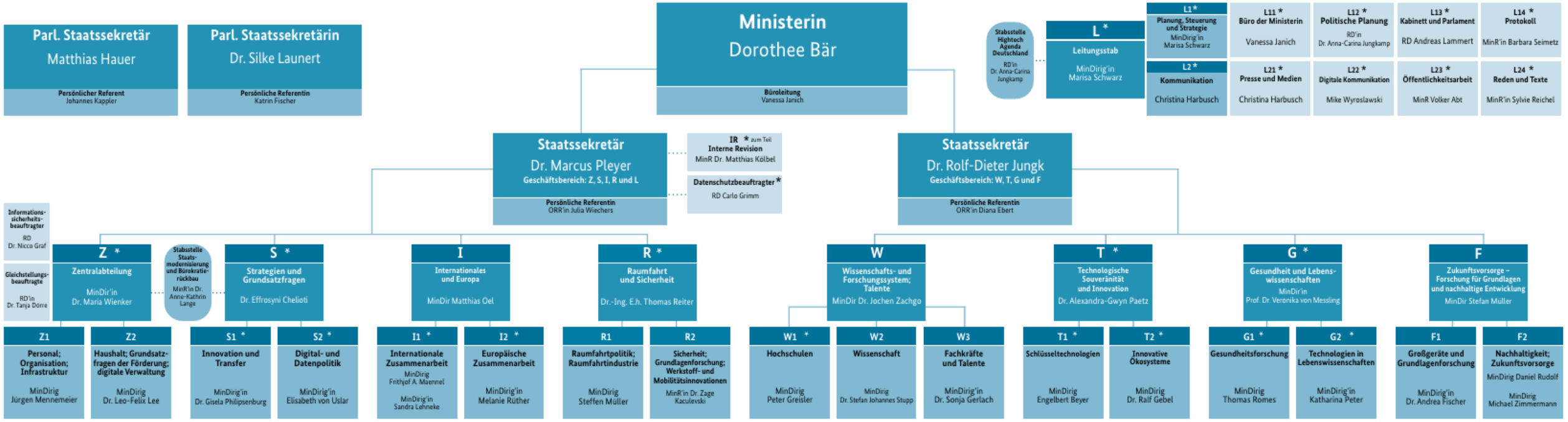
Who is who

The Federal Ministry of Research, Technology and Space (BMFTR)



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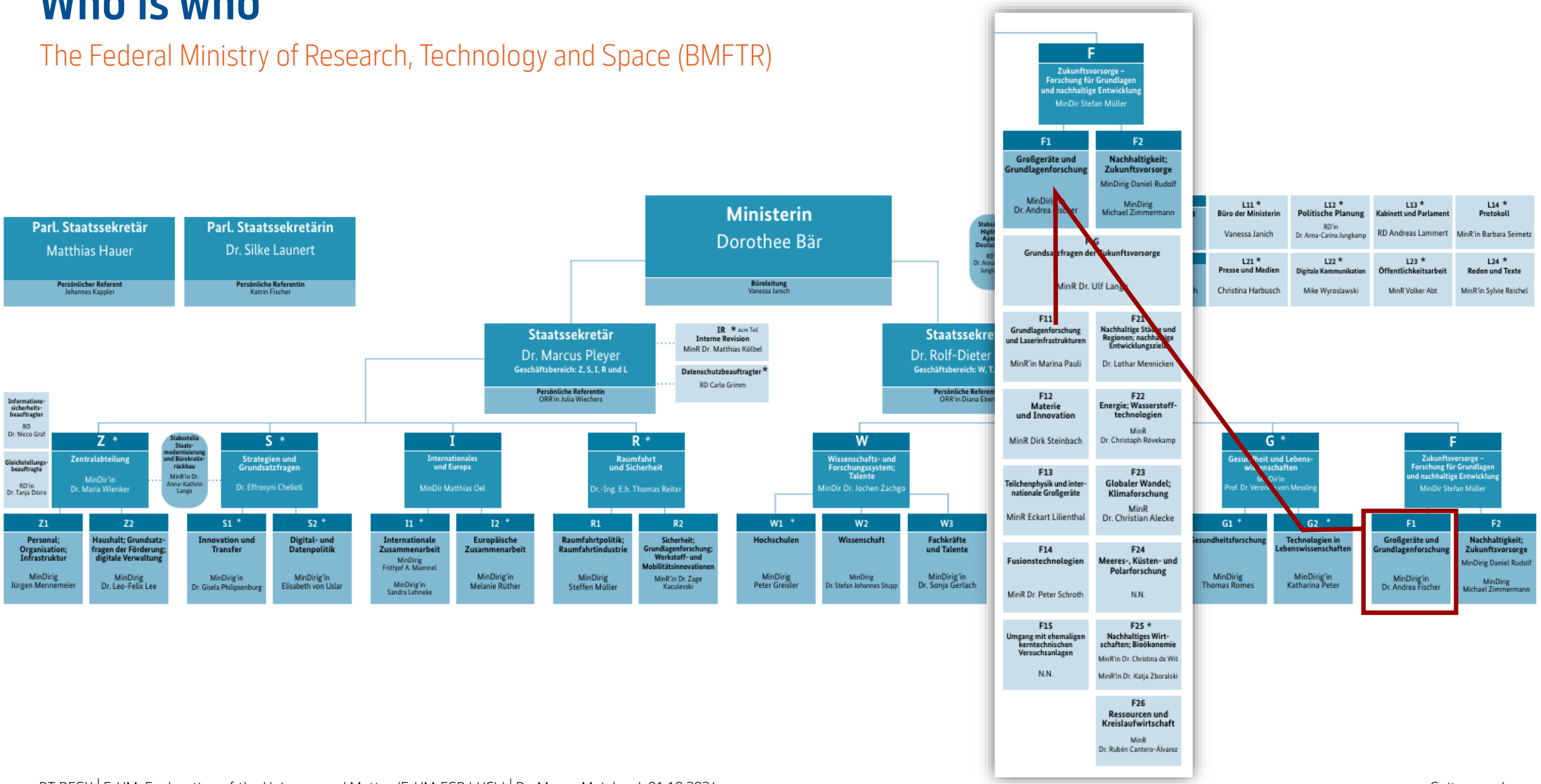


Who is who in ErUM

DESY Projektträger: Project management for sub department F1

pt.desy.de

Framework programme ErUM

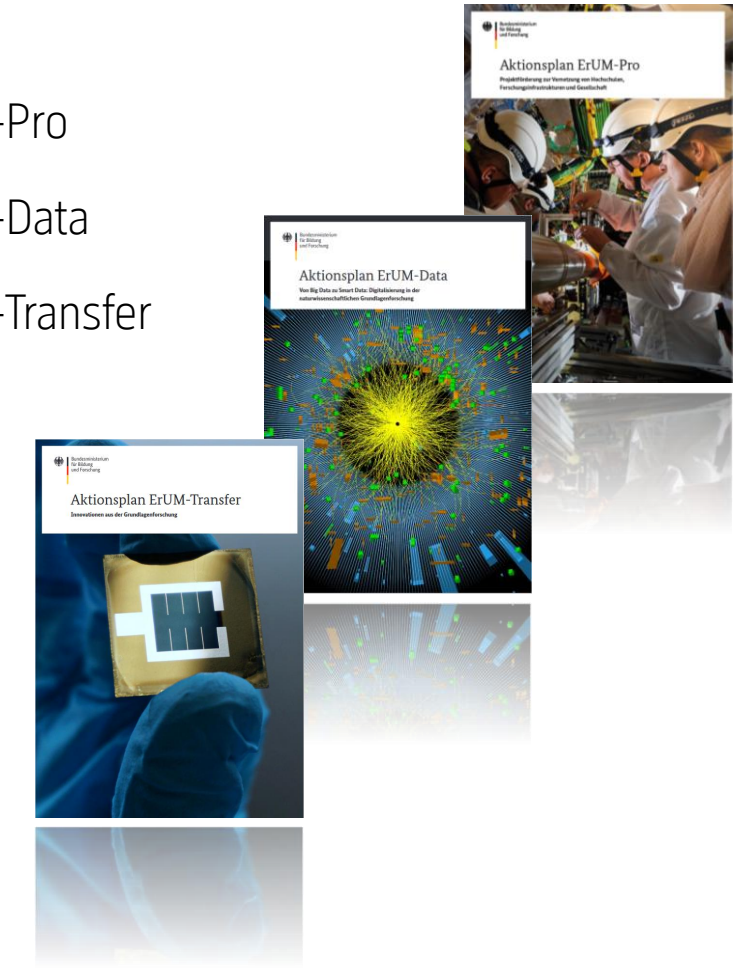
ErUM: Exploration of the Universe and Matter

BMFTR framework programme and action plans for basic research

Strategic and thematic framework for basic research at large-scale facilities

Action Plans

- 2018: ErUM-Pro
- 2020: ErUM-Data
- 2023: ErUM-Transfer



ErUM-Transfer

- Aims of ErUM-Transfer
  - Closing funding gaps between discovery and application
  - Advancing ideas from within the ErUM ecosystem
  - Strengthening cooperation with companies
- Nine very successful pilot projects will be finished soon
- New funding call is currently being developed, details not final, but:
  - Feasibility studies with companies
  - Flexible application submission
  - Short “time to grant”

Hightech Agenda: Focus on six key technologies

Aim: Germany becomes a leading location for new technologies (again)

- Strengthens economic power
- Ensures independence
- Attracts talented people

Key technologies

- Artificial intelligence
- Quantum technologies
- Microelectronics
- Biotechnology
- Fusion and climate-neutral energy generation
- Climate-neutral mobility

ErUM is an essential enabler in all these key technologies

- ErUM-Pro and particle physics in general give fundamental impulses especially for: Artificial intelligence and Microelectronics

Current activities in the ErUM field "Particles"

Wolfgang Gentner Programme

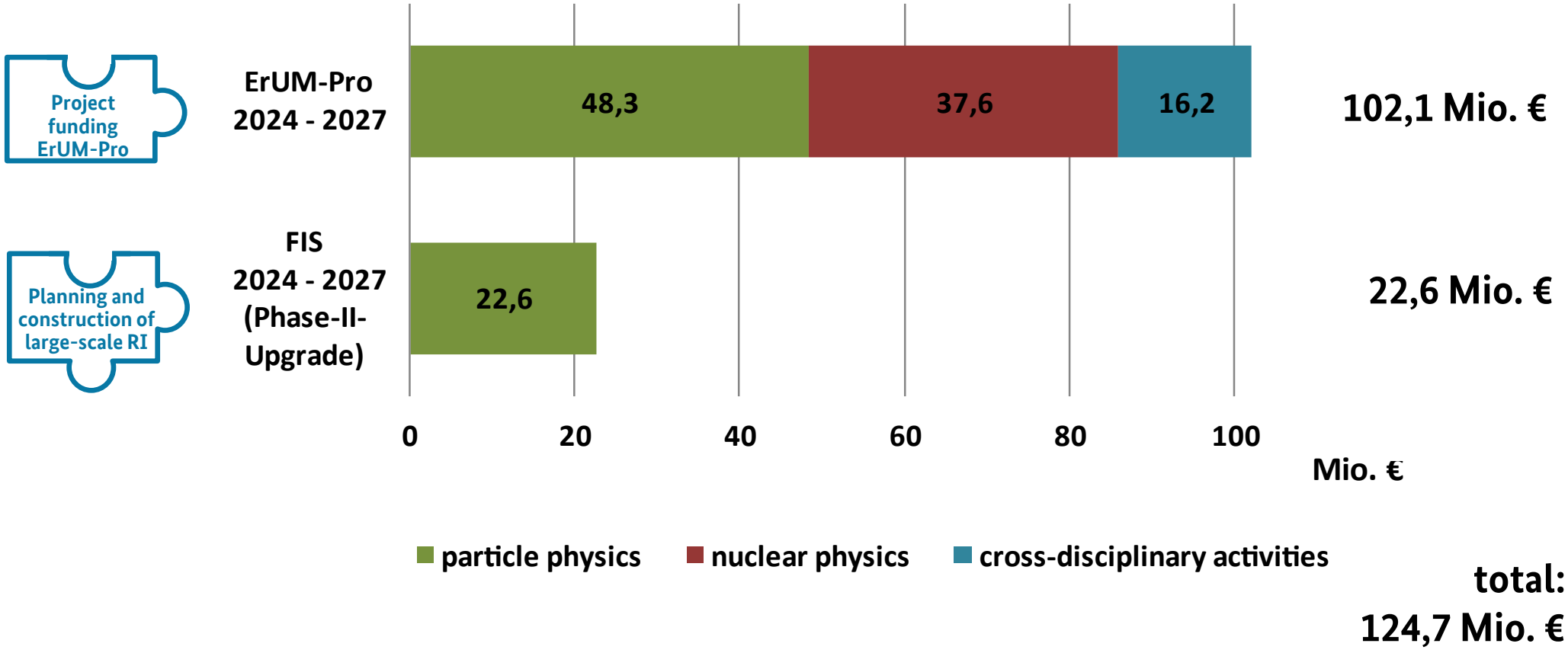
Restart in 2026

BMFTR and CERN extended the Gentner-Programm in Dec. 2025

- Goal: increase the number of Germans in the CERN Doctoral Student Program in technical fields (engineering, computer science, etc.) → this is a first step for a career at CERN
- Apply via the CERN careers website https://careers.cern/jobs/tsc-doct/
- CERN contract runs up to 36 month and is co-financed by BMFTR and CERN
- The Studienstiftung des deutschen Volkes promotes the CERN training programms in Germany https://www.cern-studienstiftung.de/

Priorities in the ErUM field "Particles"

Project funding 2024-2027



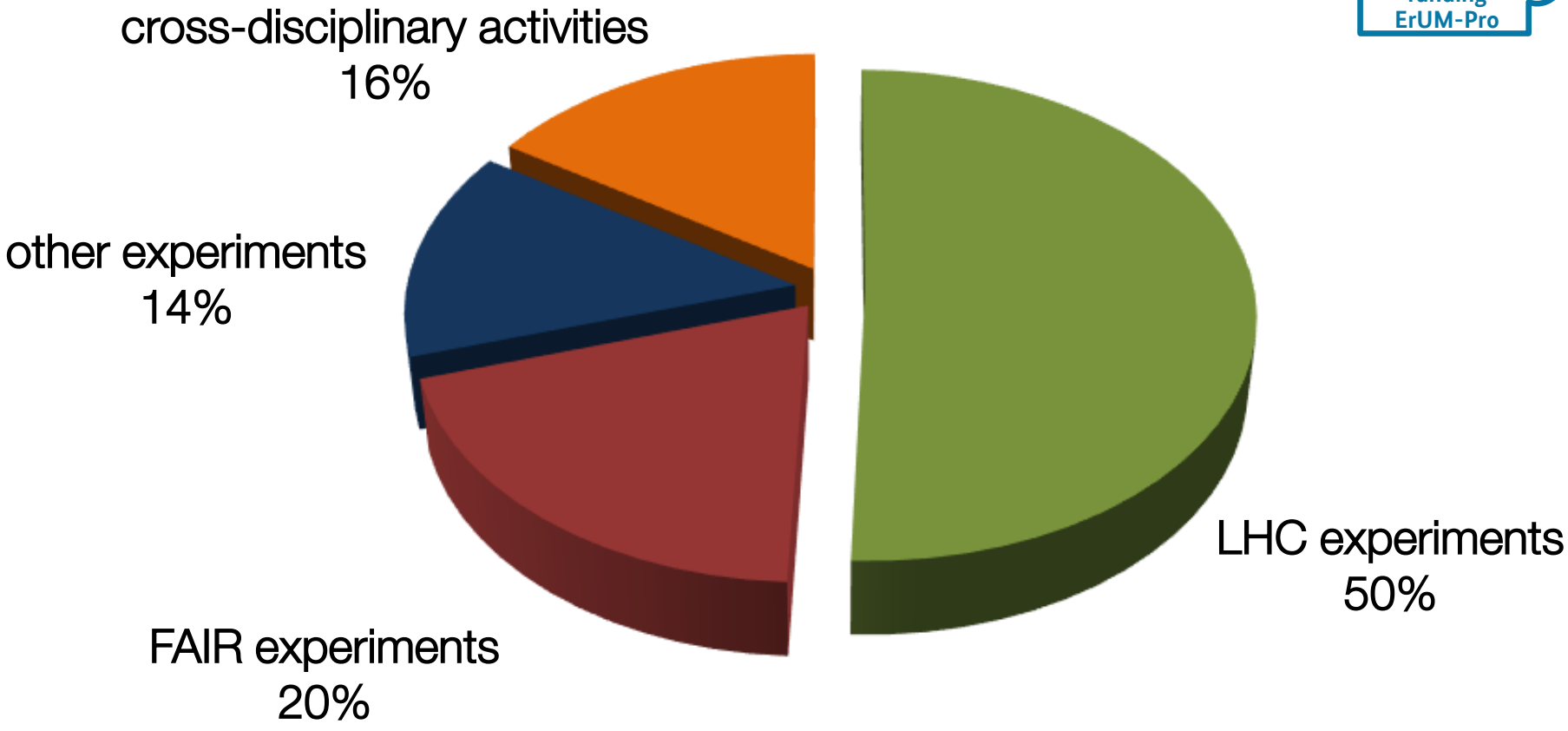
status Sept. 2026

Current Priorities ErUM Field "Particles"

Project funding ErUM-Pro 2024-2027

Project funding ErUM-Pro

total: 102,1 Mio. €



status Sept. 2025

Elementary Particle Physics

Project funding ErUM-Pro 2024-2027

Project funding ErUM-Pro

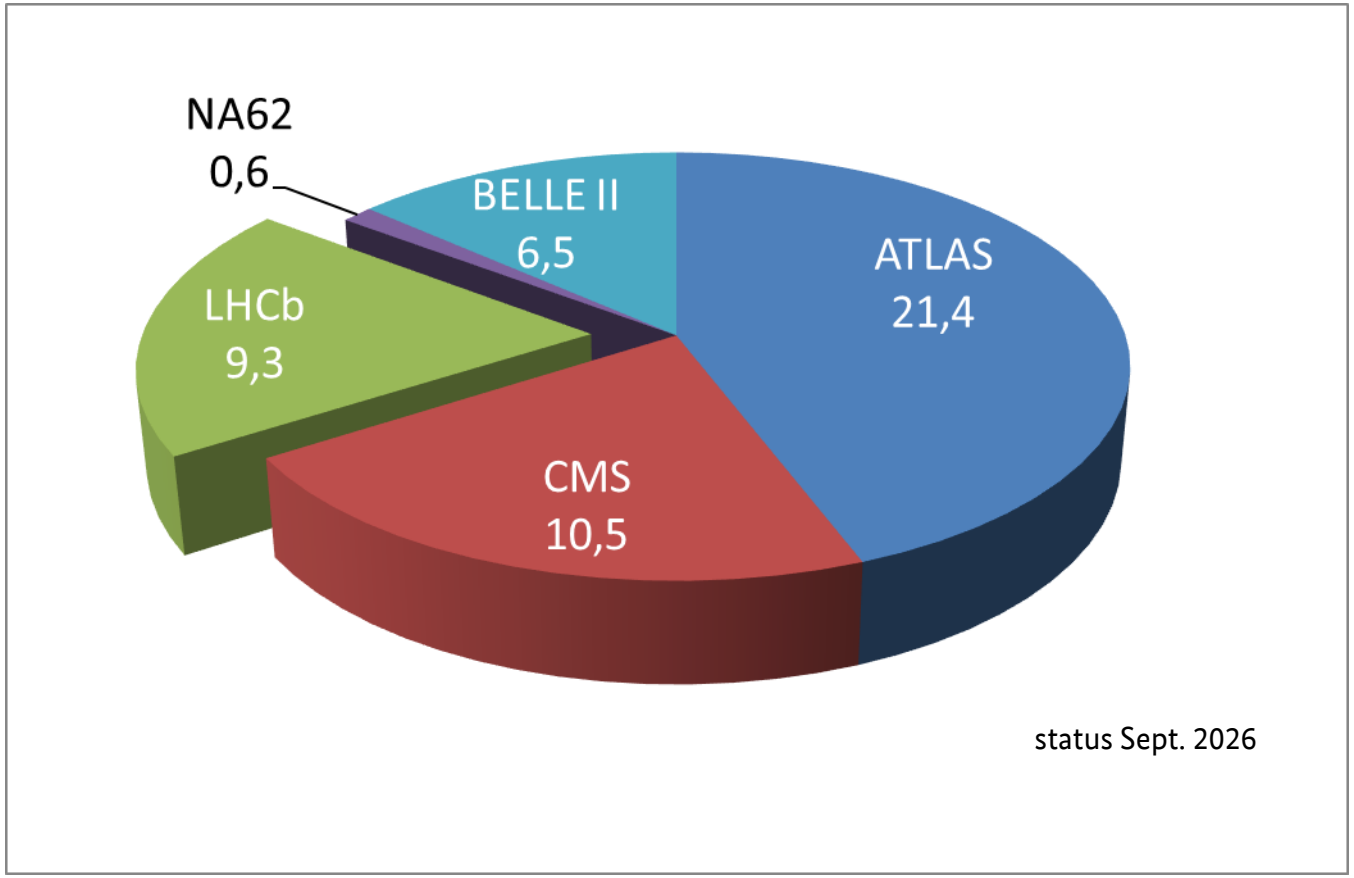
total: 48 Mio. €

BMFTR priorities:

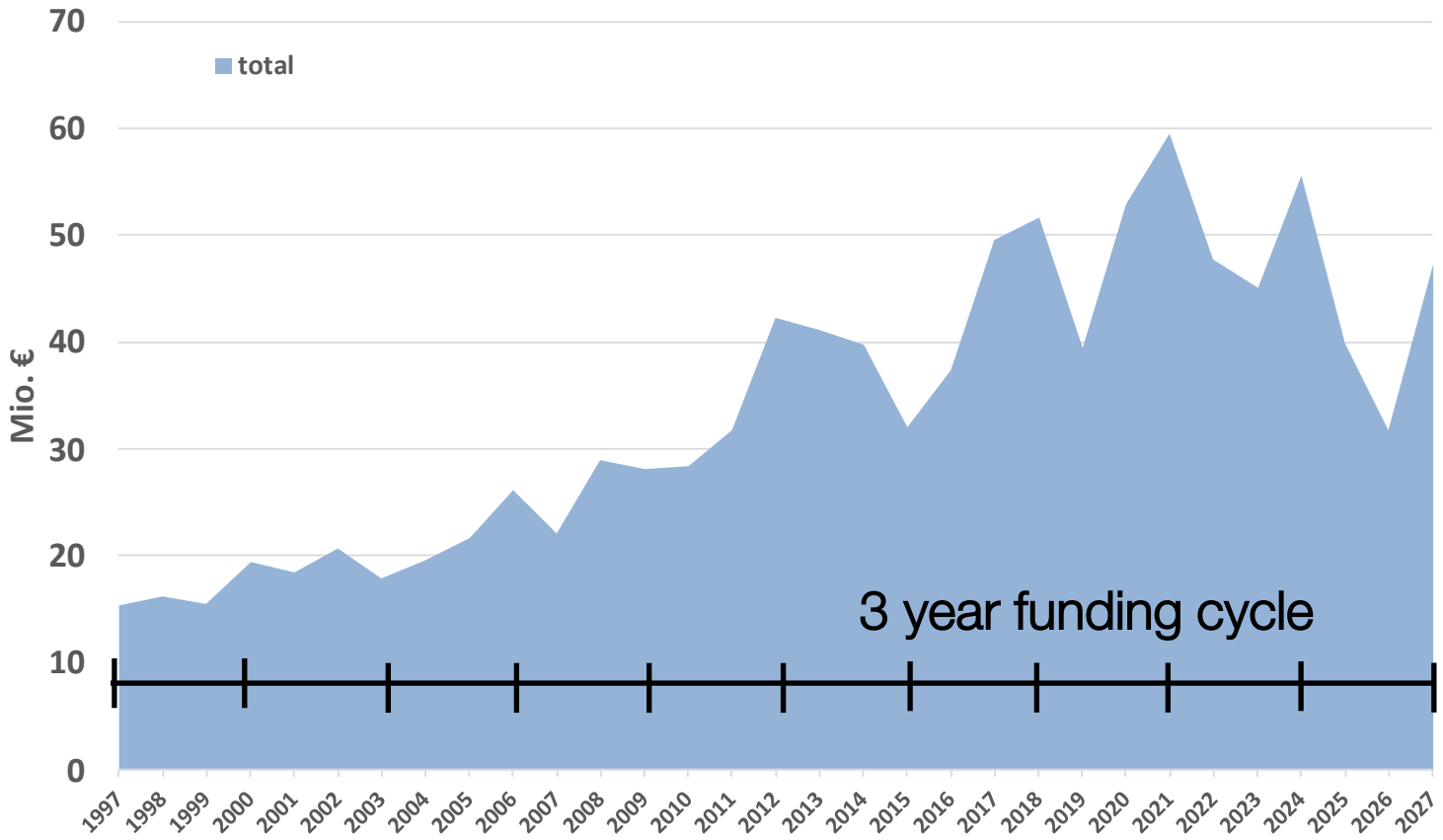
- experiment: operation/service
- method dev. and data analysis

ErUM-Pro:

LHCb (incl. theory, FSP): 9,3 Mio. €



ErUM Field “Particles” since 1997

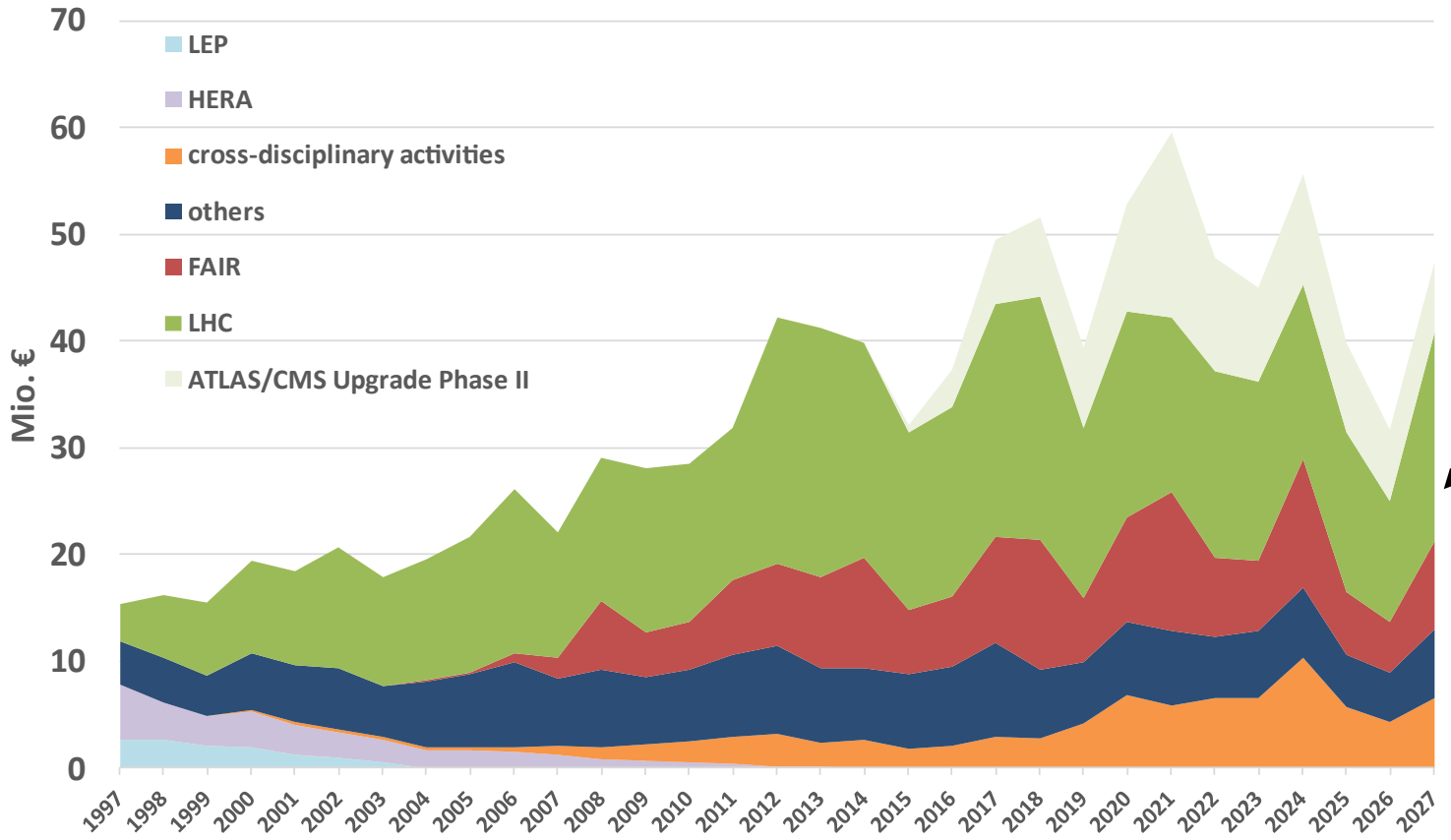


1.043 Mio. €
since 1997

funding until
06/2027

status Sept. 2026

ErUM Field “Particles” since 1997



1.043 Mio. €
since 1997

funding until
06/2027

status Sept. 2026

Funding call “Particles 2027-2030“

Content

- basic research in elementary particle physics as well as hadron and nuclear physics at selected large Research Infrastructures in which the Federal Government is significantly involved
- both MoU-based commitments and excellent data analysis
- priority RI:
  - LHC: ALICE, ATLAS, CMS LHCb
  - FAIR: APPA, CBM, NUSTAR
  - KEKB: Belle II
- cross cutting activities: accelerator, computing, detector R&D
- innovation and transfer in line with the High-Tech Agenda Germany

Bundesanzeiger
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Bekanntmachung
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BAnz AT 24.04.2026 B2
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Bundesministerium
für Forschung, Technologie und Raumfahrt

Richtlinie
zur Förderung von Projekten
zum Thema „Physik der kleinsten Teilchen“
innerhalb des Rahmenprogramms „Erforschung von Universum und Materie – ErUM“

Vom 14. April 2026

1 Förderziel, Zuwendungszweck, Rechtsgrundlage

Mit dem Rahmenprogramm „Erforschung von Universum und Materie“ (ErUM; abrufbar unter: https://www.bmftr.bund.de/SharedDocs/Publikationen/DE/7/31339_Erforschung_von_Universum_und_Materie.html) verfolgt das Bundesministerium für Forschung, Technologie und Raumfahrt (BMFTR) das Ziel, die wissenschaftliche Leistungsfähigkeit sowie das Leistungsspektrum von Großgeräten der naturwissenschaftlichen Grundlagenforschung weiterzuentwickeln.

Funding call “Particles 2027-2030“

Timeline

Thank you

Kontakt

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DESY Projektträger

pt.desy.de

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