

A blurred, 3D-style logo of the German Research Foundation (DFG) in white, set against a blue background with light rays.

Funding of Hadron and Nuclear Physics by the German Research Foundation (DFG)

DFG Review Board 3.24: Particles, Nuclei and Fields

Dr. Manuel Krämer

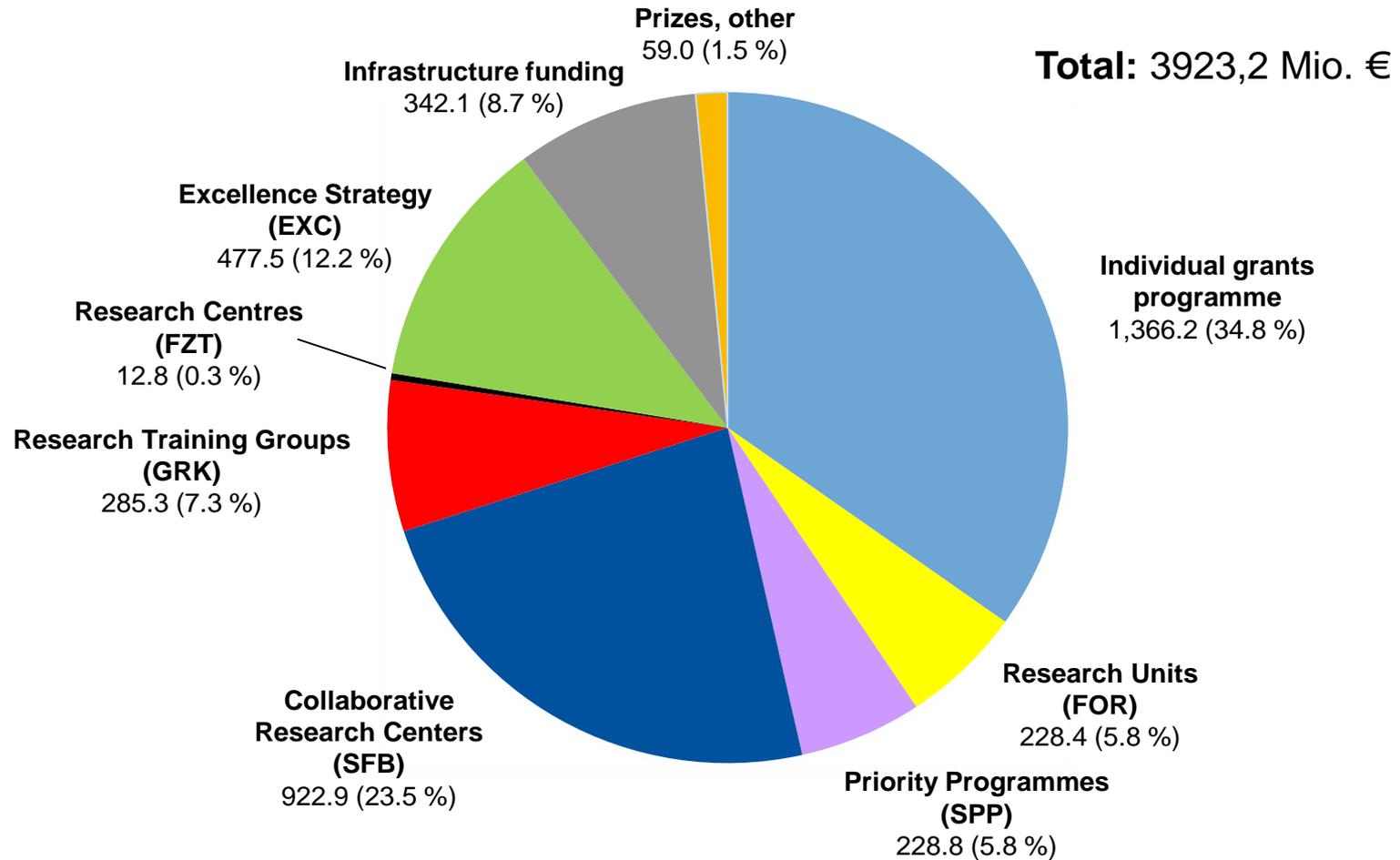
New DFG Review Board since May 2024

309 → 3.24

- ▶ New numbering scheme: **3.24** (instead of 309)
 - Scientific Discipline “Natural Sciences”: 3
 - Research Area “Physics”: 32
 - Review Board “Particles, Nuclei and Fields”: 3.24
- ▶ Re-elected:
 - Tetyana Galatyuk (Darmstadt) → **Deputy Spokesperson**
 - Robert Harlander (Aachen)
 - Hans-Christian Schultz-Coulon (Heidelberg) → **Spokesperson**
 - Concettina Sfienti (Mainz)
- ▶ Newly elected:
 - Christoph Hanhart (FZ Jülich)
 - Gudrun Heinrich (Karlsruhe)

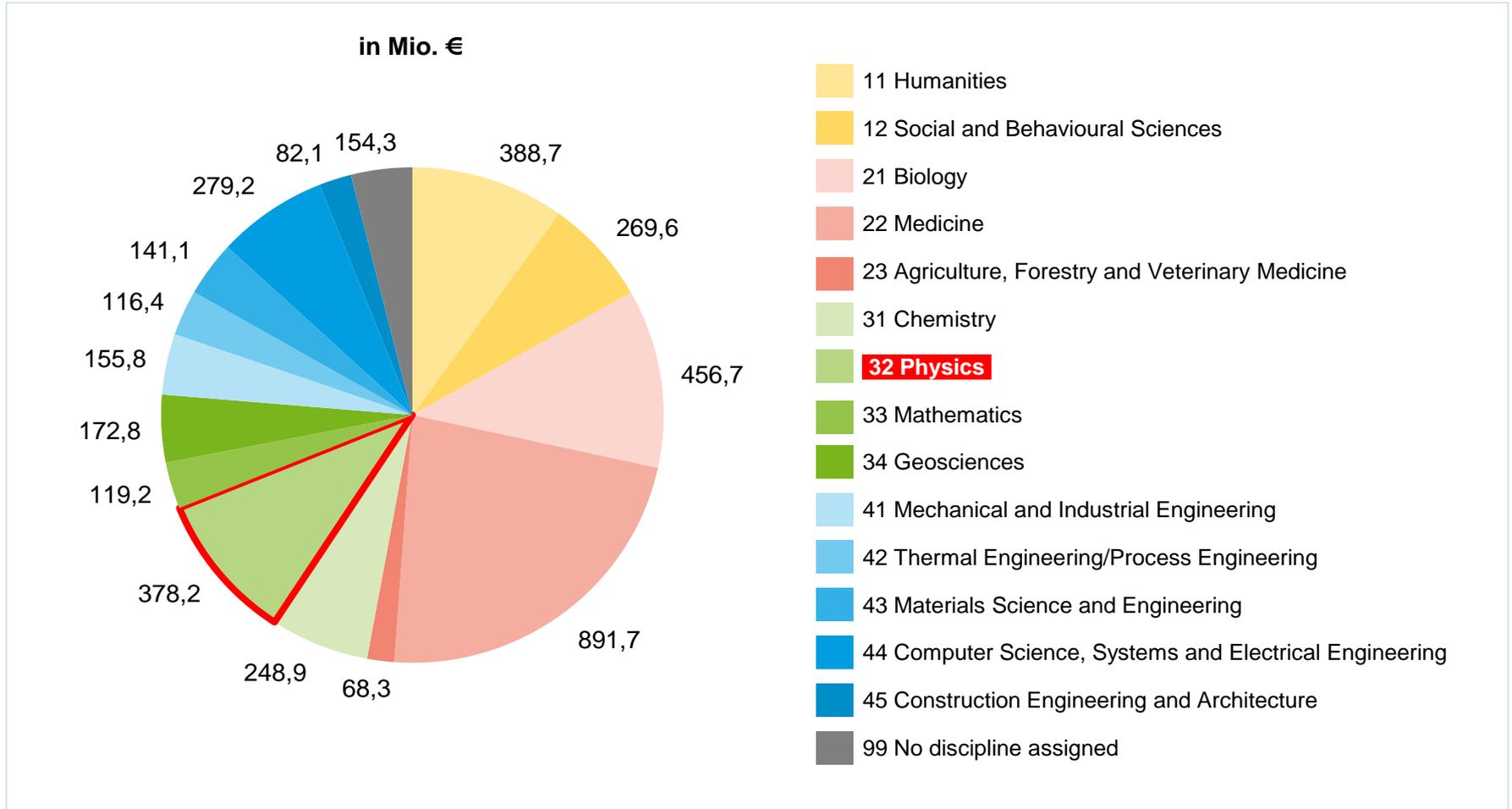
Overview of DFG funding activities

Amount of research funding awarded by programme for 2023 (in Mio. € and %)



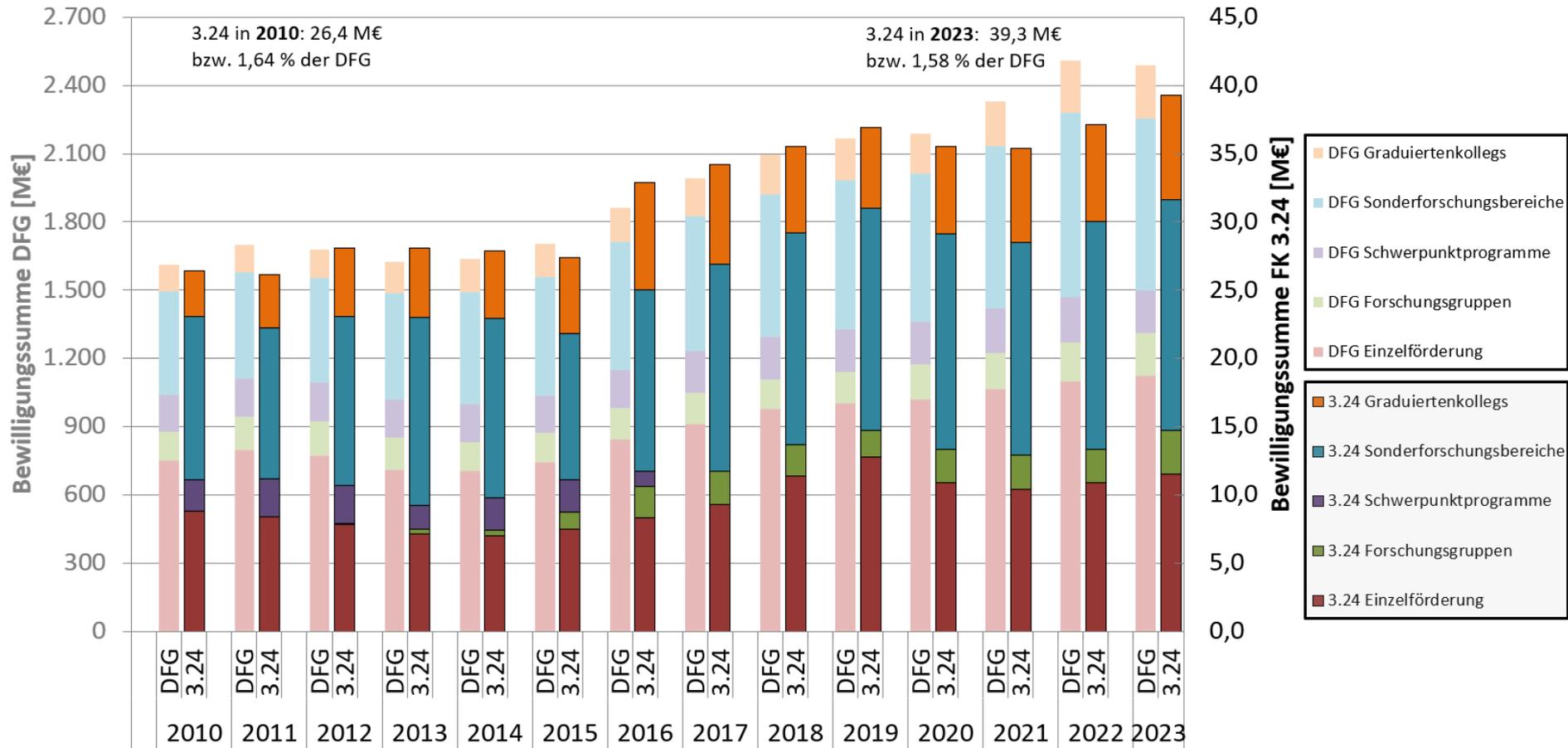
Overview of DFG funding activities

Amount of research funding for running projects per research area in 2023 (in Mio. €)



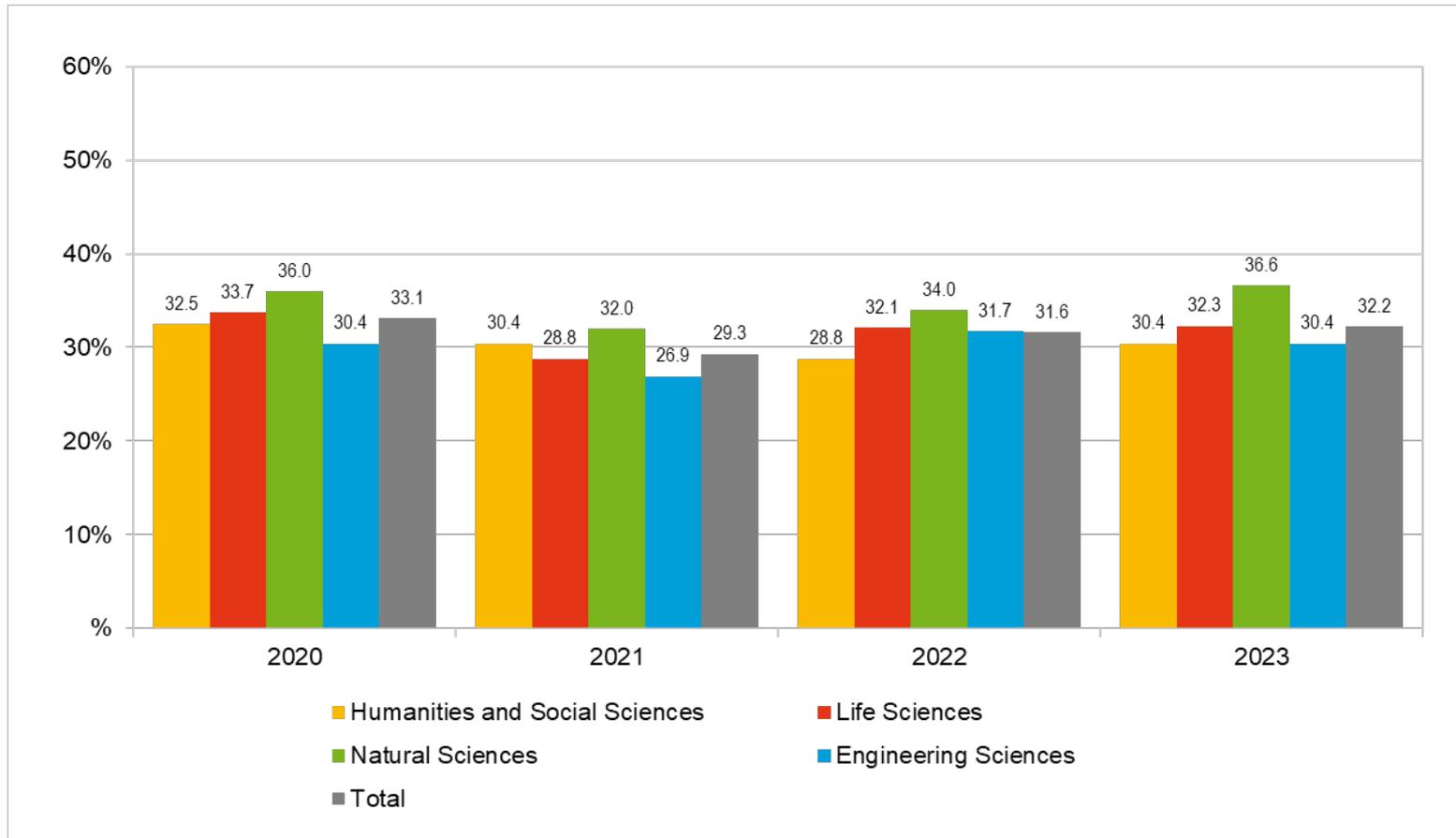
Funding amounts per programme (Review Board 3.24)

Development of the annual funding amounts per funding programme (in Mio. € - without overhead)



Overview of DFG funding activities

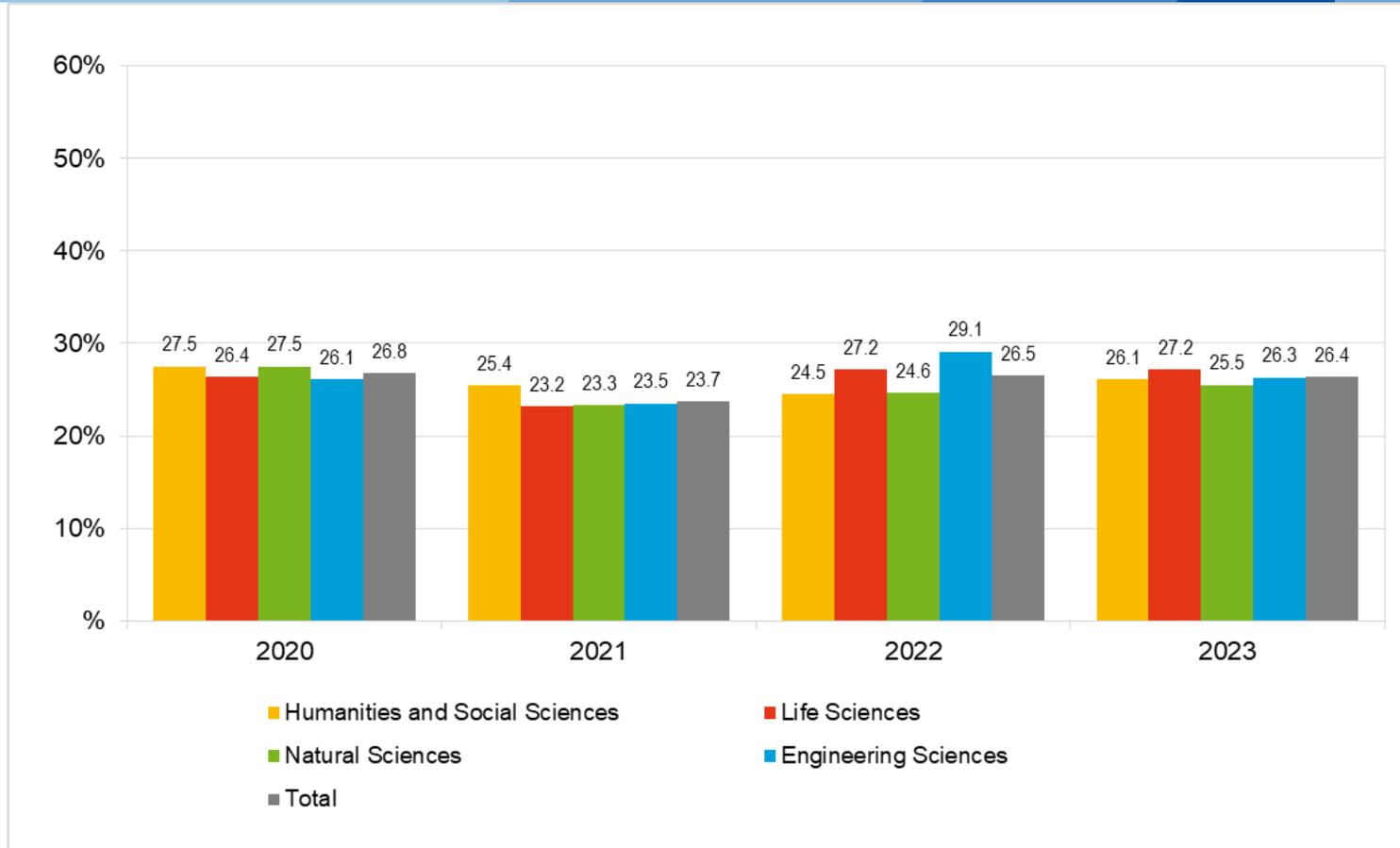
Funding rates* in the individual grants programme by scientific discipline 2020 to 2023 (in %)



* The funding rate (or success rate) was calculated by dividing the **number** of awards by the number of proposals reviewed.
Source: New Individual grants

Overview of DFG funding activities

Funding success rate* in the individual grants programme by scientific discipline 2020 to 2023 (in %)



* The funding success rate was calculated by dividing the **value** of funding awarded by the total amount requested.

Source: New Individual grants

Coordinated Programmes within the DFG Review Board 3.24

FOR, GRK, SFB

▶ 9 Research Units (*Forschungsgruppen*, FOR)

- New since 7/2024:
FOR 5582 “Modern Foundations of Scattering Amplitudes” (Duhr, Bonn)

▶ 9 Research Training Groups (*Graduiertenkollegs*, GRK)

- New from 1/2025:
GRK 2994 “Particle physics at colliders in the LHC precision era” (Porod, Würzburg)

▶ 7 Collaborative Research Centers (*Sonderforschungsbereiche*, SFB; *Transregio*, TRR)

- New since 4/2024:
SFB 1639 “NuMerIQS: Numerical Methods for Dynamics and Structure Formation in Quantum Systems” (Urbach, Bonn)
- New since 10/2024:
SFB 1660 “Hadrons and Nuclei as Discovery Tools” (Sfienti, Mainz)

Coordinated Programmes within the DFG Review Board 3.24

Clusters of Excellence (EXC)

- ▶ Since 2019: 3 **Clusters of Excellence** (EXC) in particle and nuclear physics funded
 - **EXC 2118** “Precision Physics, Fundamental Interactions and Structure of Matter” (PRISMA+)
 - JGU Mainz, HI Mainz
 - **EXC 2121** “Quantum Universe”
 - U Hamburg, DESY
 - **EXC 2094** “ORIGINS: From the Origin of the Universe to the First Building Blocks of Life”
 - Munich: LMU, TUM, several Max Planck Institutes
- ▶ **Second round of the Excellence Strategy** currently under review
 - 41 (out of 143) new EXC initiatives were selected to submit a full establishment proposal
 - New initiative by U Bonn, TU Dortmund, U Siegen, FZ Jülich:
“Color meets Flavor – Search for new phenomena in strong and weak interactions”
 - Decision by the **Excellence Commission** on May 22, 2025 → funding from January 1, 2026
 - Up to 70 EXCs can be funded → up from 57 currently funded EXCs

New AEI-DFG Pilot Call in Particle and Nuclear Physics

- ▶ Second pilot call of **DFG** and **AEI** (Agencia Estatal de Investigación, Spain) for joint research projects between Spain and Germany
 - DFG Review Board 3.24 / AEI Subarea “Particle and Nuclear Physics” are included
- ▶ **AEI** will be the **Lead Agency** in this call
- ▶ Threshold for funding: top 20 %
- ▶ **Deadline** for submission will be in **January 2025**
→ exact dates to be announced



- ▶ Further information:

<https://www.dfg.de/de/aktuelles/neuigkeiten-themen/info-wissenschaft/2024/ifw-24-102>

Further international funding opportunities

NSF-DFG, WEAVE

▶ NSF-DFG Funding Opportunity for Collaborations in Physics

- NSF PHY: e.g.: particles, nuclei, gravity, AMOP, plasma, living systems; but **not** condensed matter physics



→ <https://www.dfg.de/en/news/news-topics/announcements-proposals/2023/info-wissenschaft-23-50>

▶ WEAVE Lead Agency Initiative – bilateral and trilateral projects with:

ARIS	Slovenia (NEW)
FNR	Luxembourg
F.R.S.-FNRS and FWO	Belgium
FWF	Austria
GAČR	Czechia
NCN	Poland
SNSF	Switzerland



▶ *In both cases:* Free choice of the Lead Agency

- No specific budget → competition with all other individual research grants
- If DFG is Lead Agency → no deadlines; other funding organisations may have deadlines

Updated template and regulations for DFG proposals

- ▶ Updated proposal template **53.01**, mandatory since **September 1, 2024**
- ▶ **New:** Subsection **4.1.6** “*Considerations on aspects of **ecological sustainability** in the planning and implementation of the project*”
 - Brief statement necessary with reflection on how sustainability considerations are taken into account in the proposed project
 - Writing “not applicable” is not sufficient
- ▶ **New:** Subsubsection **4.1.5.2** “*Risks in international cooperation*”
 - In case of cooperation with researchers in countries where misuse of certain research results is to be suspected
 - Statement necessary on the risk/benefit ratio with regard to the research subject, research partners and research conditions and what measures are planned to minimise risks
- ▶ Using generative AI models for writing a proposal is allowed, but needs to be disclosed

Contact persons in the DFG Head Office

- ▶ **FK 3.23** Optics, Quantum Optics and Physics of Atoms, Molecules and Plasmas
 - Andreas Deschner
(Deputy: Manuel Krämer)
- ▶ **FK 3.24** Particles, Nuclei and Fields
 - Manuel Krämer
(Deputy: Stefan Krückeberg)
- ▶ **FK 3.25** Astrophysics and Astronomy
 - Stefan Krückeberg
(Deputy: Andreas Deschner)
- ▶ Ulrike Büchner, Andrea Klein, Raphaela Nyssen, Torsten Spilles



DFG

Thank you very much for your attention.

Further information

- ▶ www.dfg.de
- ▶ all funded DFG projects: www.dfg.de/gepris