



Coordinated Outreach and Promoting Young Talents in the Project KONTAKT2

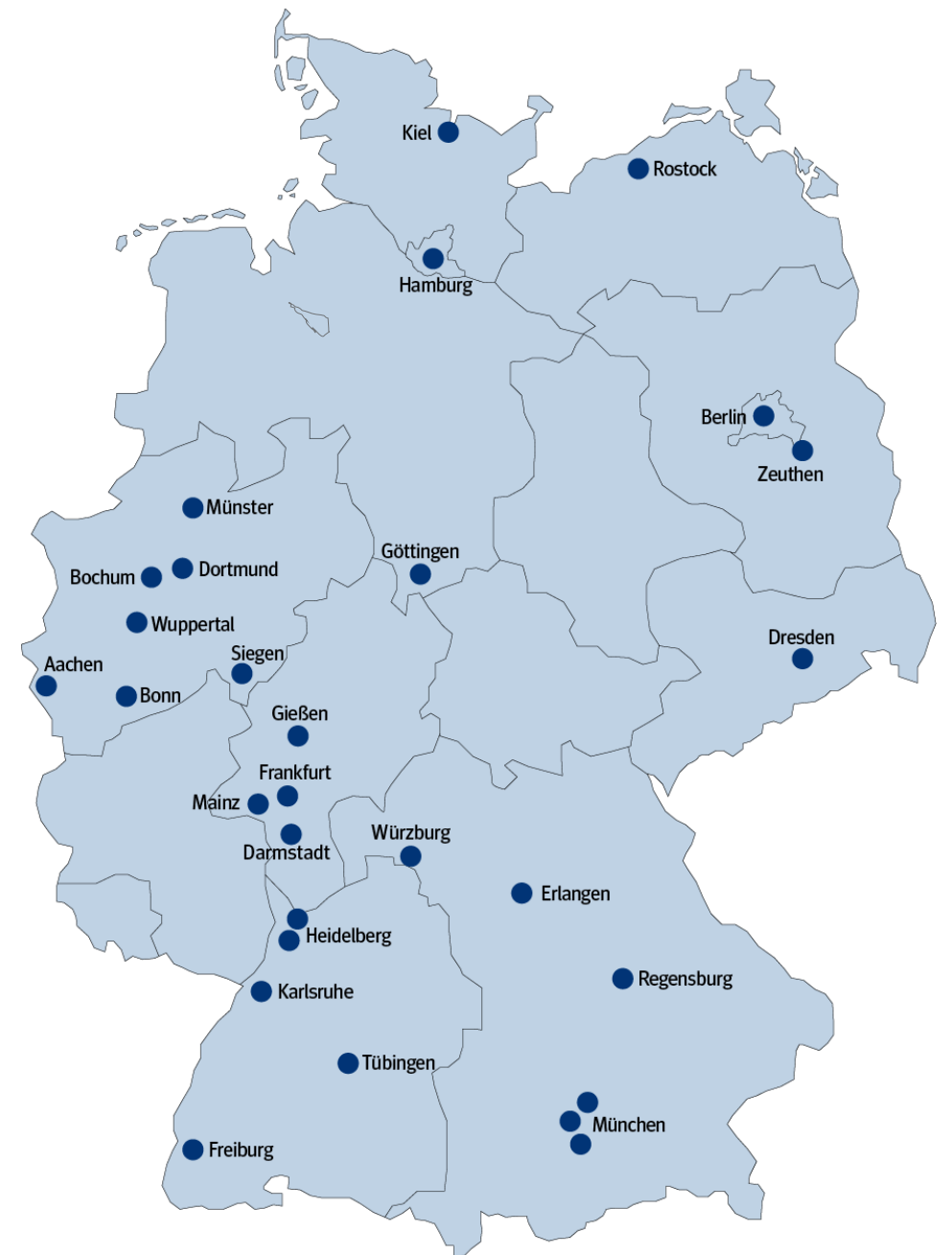
Telling (young) people what our work is all about



NETZWERK
TEILCHENWELT

Netzwerk Teilchenwelt

- ▶ 29 universities/research labs + CERN (all LHCb institutes involved)
- ▶ Joint outreach
 - Bundle existing activities
 - Share structures and programs
- High visibility and impact
- ▶ Project team: TU Dresden / DESY / CERN
- ▶ + hubs in Bonn, Mainz, Münster
- ▶ Joining forces with Weltmaschine
- ▶ Collaboration with LHC ErUM-FSP Büro



Our objectives in KONTAKT2 ↔ Fields of action in ErUM

- ▶ Tell people (high school students) what our work is about
- ▶ Provide insight into the process and organization of research
- ▶ Present role models
- ▶ Inspire young talents
- ▶ Promote young scientists (e.g. science communication)
- ▶ Intensify dialog between research and citizens



STEM
young scientists



Transfer &
participation

- ▶ Exploration of the Universe and Matter (BMBF framework program)
- ▶ Outreach is integral part of research within the framework program ErUM

Core program: multi-step program for high school students



(LHCb) Masterclasses



Active engagement,
detector projects

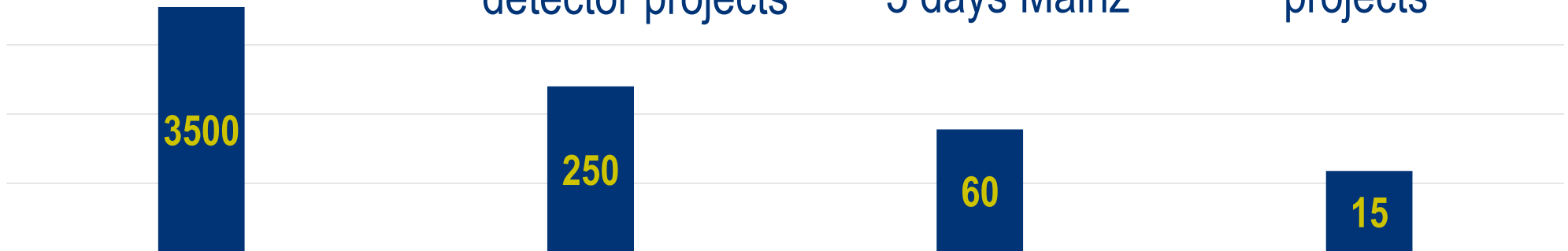


4 days CERN or
5 days Mainz



Own research
projects

Number of students
per year



Facilitators



- ▶ ~ 150 PhD and Master students
- ▶ guide Masterclasses, supervise students' research projects
- ▶ influence students' career-related aspirations and choices

- ▶ reimbursement of expenses and travel cost
- ▶ get training courses on communication, didactics, and presentation techniques (Vermittler-Workshop)



- ▶ acquire soft skills, for personal and professional development
- ▶ experience interest in own research
- ▶ practice supervision



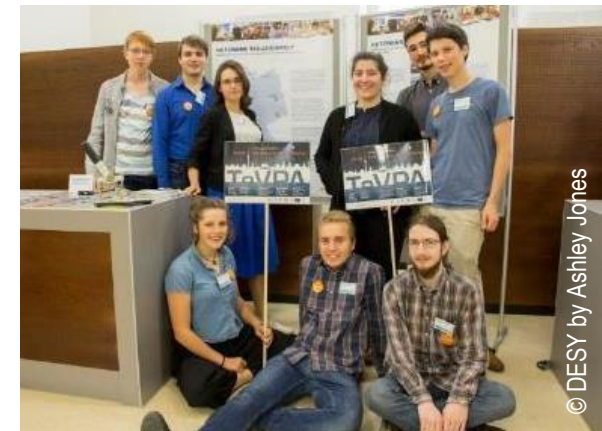
Fellow program



- ▶ 200 people, 50% female
 - ▶ Mainly alumni of CERN workshops
 - Now often studying physics or shortly before that
- **Close connection between highly motivated students and research groups**
- ▶ Central offers: Fellow physics school 2019, Fellow detector school 2021, “Ask the expert” sessions (online), national physics conference attendance etc.
 - ▶ Local offers: internships, excursions, invitation to outreach events, colloquia, regulars’ table etc.
- @ Group leaders: Offers welcome!**
- Get in contact with fellows via local Teilchenwelt contact person



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© DESY by Ashley Jones

Urknall unterwegs

- ▶ Interactive mobile exhibition modul on particle physics
 - Tunnel: time travel through the history of the universe
 - Columns: Interactions and particles, Research methods, spin-offs
 - Pavilion with games (Particle Twister, Particle Yenga)



- ▶ Target audience: general public, people with less affinity for science
- ▶ Operational since the end of July 2021
- ▶ Now on tour (Münster, Würzburg: Highlights der Physik, Hamburg)
- ▶ Also in your city? [More info](#)

I'm a scientist

- ▶ Online portal that enables pupils to exchange information directly with scientists (in German)
- ▶ text-based live chats, questions about research, everyday work, ...
- ▶ Pupils from 5th grade onwards take part in class groups, teachers book 30 min time slots
- ▶ 8.-19. November: Particle Physics!
- ▶ **Volunteers wanted** (register by 17.10)
- ▶ [More info](#)

I'm a Scientist
Get me out of here

Such

Startseite | Lehrkräfte | Wissenschaftler*innen | Themen | Stimmen Zum Projekt

Schule trifft Wissenschaft

I'm a Scientist, Get me out of here! (Ich bin Wissenschaftler*in, holt mich hier raus!) ist ein Online-Angebot, das Schüler*innen den direkten Austausch mit Wissenschaftler*innen ermöglicht.

In textbasierten Live-Chats treten Schüler*innen in den Dialog mit Wissenschaftler*innen, lernen dabei deren Arbeitsalltag kennen und erfahren, zu welchen Themen sie aktuell forschen. Dabei stimmen die Schüler*innen regelmäßig über ihre Lieblingswissenschaftler*innen ab und küren so am Ende eine*n Gewinner*in.

Die nächste Runde zum Thema „Teilchen- und Astroteilchenphysik“ wird vom 8. bis zum 19. November 2021 stattfinden.

Themenbereich [Teilchenwelt](#)

Wo ist der Unterschied zwischen Parasiten, Viren und Bakterien?

HenrikeS

Was mögen Sie mehr: die Arbeit im Labor oder Studenten Vorlesungen zu halten? (Warum?)

CorinnaD

Ist es nicht langweilig so viel am Schreibtisch zu sitzen?

HenrikeS

Gibt es auch gute Viren?

HenrikeS

Finden sie es moralisch korrekt einen Tierversuch durchzuführen bei dem das Tier dafür umgebracht werden muss?

Leon M.

Wie muss man sich das Erforschen von Genen vorstellen? Werden hierfür gezielt Sequenzen aktiviert bzw. ausgeschaltet, (6 Kommentare)

Anne.S

You want to get involved?

- ▶ Meet the local Netzwerk Teilchenwelt contact person at your lab
- ▶ Contact us via info@teilchenwelt.de
- ▶ Become facilitator (Vermittler), guide Masterclasses and supervise students' research projects
- ▶ Attend our Science Communication training (Vermittler-Workshop) next spring
- ▶ Participate in „I'm a scientist“
- ▶ Be a guide in the mobile exhibition „Urknall unterwegs“
- ▶ Group leaders: Involve the fellows (young students) at your lab



→ **Outreach is an integral component of research**
...and increasingly important for your career – be it for
scholarships, grant applications or appointments

PROJEKTLEITUNG



PARTNER



SCHIRMHERRSCHAFT



FÖRDERER



DR. HANS RIEGEL-STIFTUNG

GEFÖRDERT VOM



Bundesministerium
für Bildung
und Forschung