

ONLINE ICRC 2021

THE ASTROPARTICLE PHYSICS CONFERENCE
Berlin | Germany

37th International
Cosmic Ray Conference
12–23 July 2021



A Very Warm Welcome

A great science program



good progress during past two years

a capable Science Program Committee

good speakers

good discussion topics & conveners

many contributions

A great conference



Good turn-up: > 1700 participants, > 1400 contributions

Plenary reviews, highlight talks, rapporteurs talks, ~50
Many parallel topical discussion sessions ~60

Broad area: CRI, CRD, GAI, GAD, NU, SH, DM
Two **new** tracks: Multi-Messenger Astronomy, **MM**,
Outreach & Education, **OE**

Coffee bars (24h/7d)

A Fringe program (Industry Fair, Science Fair, Careers,
Diversity, Sustainability and more)

Full proceedings

Technical support & helpdesk



- › 1700 participants
- › 1400 contributions

A virtual conference of that size and complexity is a challenge for organisers and participants.

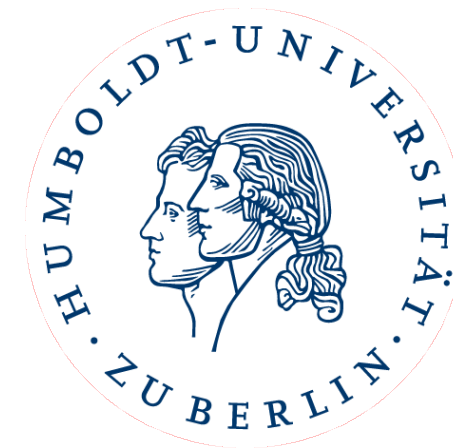
A “first” for all of us.

Good co-operation between:

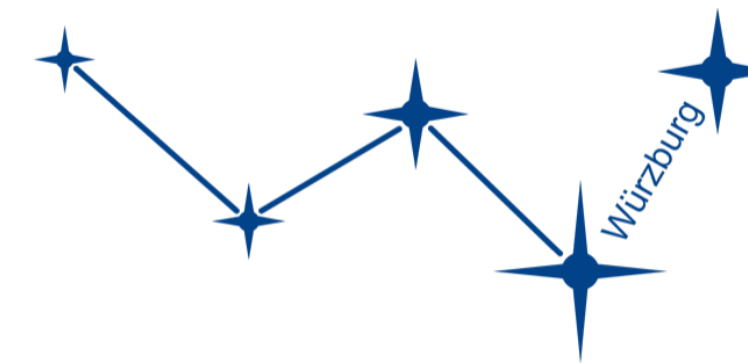
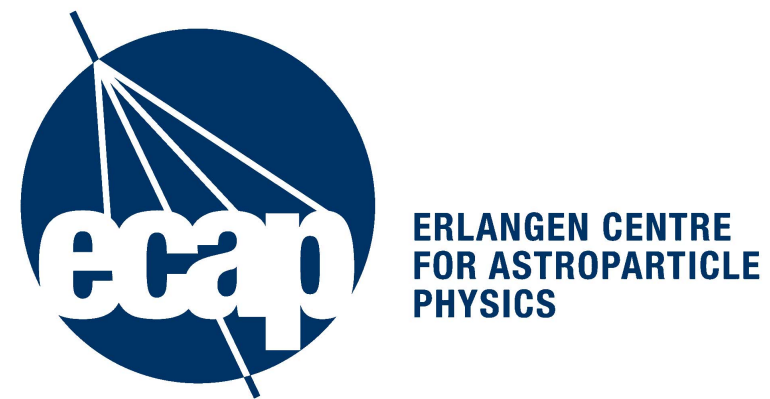
Local Organising Committee	30
IUPAP Commission C4 (Astroparticle Physics)	17
International Science Program Committee	57
Discussion Conveners	107
Technical support team in the “ICRC Mission Control” (staff, students, helpers form the LOC Institutes)	50

~260 total

Local Organisation



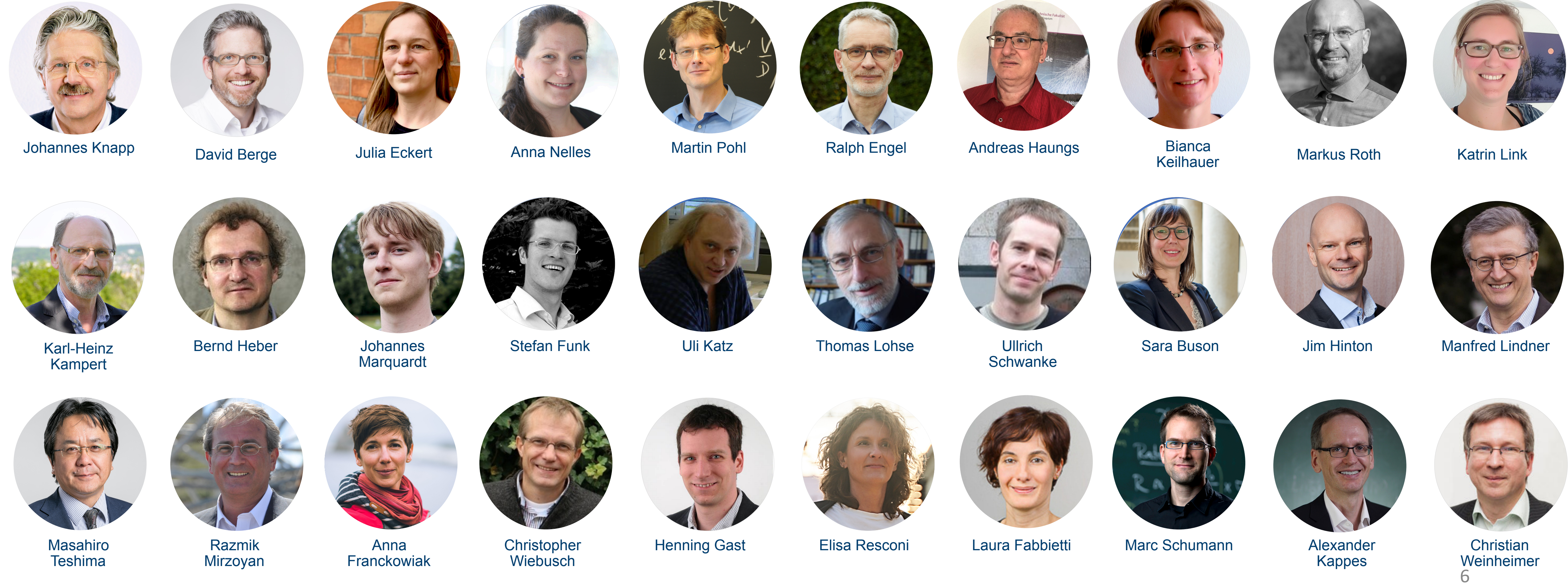
BERGISCHE
UNIVERSITÄT
WUPPERTAL



... covering all research topics of the ICRC



Local Organisation Committee





ISPC Chairs

(each with a team of about 7-8 persons)

CRD



Elena Amato

CRI



Karl-Heinz Kampert

DM



Fiorenza Donato

GAD



Luigi Tibaldo

GAI



Jim Hinton

MM



Michael Kachelriess

NU



Subir Sarkar

SH



Ilya Usoskin

OE



Carla Aramo Sabine Hemmer



**International Union of Pure and Applied Physics
Commission C₄ (Astroparticle Physics)**

more in a moment ...



A Unique Conference I

All plenary sessions, discussion sessions, contributions are kept in archive.
Fully searchable and accessible, at least until the next ICRC.
Proceedings are permanently available and indexed in literature databases.

A valuable online resource for research, study, education, ...

The ICRC's value and impact depends on **how much time we dedicate** to it
(to view, study, discuss ...)

Make the best of this ICRC

spend time at the conference,
use the wealth of materials,
discuss it with colleagues and students in the coming months.

The **ICRC does not finish** on 23 July ...

it continues for as long as you care to use this archive.



A Unique Conference II

... and it's probably the **greenest** ICRC in recent history with **zero** air miles used.



Future ICRCs ?

“Every Crisis is also a Chance”

This ICRC : all Online

Future ICRCs ? Back to In-Person ?
Hybrid ?
Online ?
Size, Length, Format ?

A lot of thinking needed : IUPAP C₄, the Japanese LOC, the ICRC Community ...
Use the experience of this ICRC.
Give your views (poll by C₄ at the end of the ICRC)

**Do come to Berlin soon,
for a proper visit.**



**Reichstag
(Parliament)**

Victory Column

TV Tower

Red City Hall

Philharmony

**Otto Lilienthal
Airport**

**World Trade
Center**

**Brandenburg
Gate**

**Kaiser Wilhelm
Memorial Church**

Berlin Dome

Ruin and New Tower



The Opening: Agenda

→ **Welcome Addresses**

Messages from the IUPAP C₄ Chair

Awards & Prizes

Remembrance

The “Official” Opening



Welcome Addresses:

Anja Karliczek

**Federal Minister for Education and Research
BMBF**

Christian Stegmann

**Director for Astroparticle Physics at the
Deutsches Elektronen-Synchrotron (DESY)**

Uli Katz

**Chair of the Committee for Astroparticle Physics (KAT)
Erlangen Centre for Astroparticle Physics (ECAP)**

Michel Spiro

**President of the International Union for Pure and Applied Physics (IUPAP)
Institut national de physique nucléaire et de physique des particules (IN2P3)**



The Opening: Agenda

Welcome Addresses

Moderator:
Sunil Gupta



Messages from the IUPAP C₄ Chair

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Opening



We declare the

37th International Cosmic Ray Conference
– The Astroparticle Physics Conference –

open !



Now: a Short Coffee Break

The Science Program

16:00 PLENARY: HIGHLIGHT 01 –

JAVIER BERDUGO

AMS Highlights

ZHAN DZHILKIBAEV

Neutrino Telescope in Lake Baikal

NICCOLO DI LALLA

Fermi LAT and GBM results on GRB 2004 15A

18:00 DISCUSSION SESSIONS (parallel)

01 MAGNETIC FIELDS AND COSMIC RAY PROPAGATION | CRI

51 THE CENSUS OF GAMMA-RAY SOURCES | GAD-GAI

19 SOLAR ENERGETIC PARTICLES ACCELERATION AND PROPAGATION | SH

31 FUNDAMENTAL PHYSICS WITH NEUTRINOS | NU

25 BLAZARS, AGN | MM