

TWEPP-21

Topical Workshop on Electronics for Particle Physics

20 – 24 Sept 2021

Online event

<https://indico.cern.ch/e/twepp2021>

Deadline for abstracts: 30 April 2021

The workshop covers all aspects of electronic systems, components and instrumentation for particle and astro-particle physics experiments such as:

electronics for particle detection, triggering, data-acquisition systems, accelerator and beam instrumentation.

Operational experience of electronic systems and R&D in electronics for LHC, High Luminosity LHC, FAIR, neutrino facilities and other present or future accelerator projects are the major focus of the workshop.

Scientific organisation

A. Kluge (CERN, CH, Chair)
J. Alme (UiB, NO)
J.P. Cachemiche (CPPM-IN2P3, FR)
H. Chen (BNL, US)
W. Dabrowski (AGH, PL)
S. Danzeca (CERN, CH)
M. French (RAL, UK)
P. Gui (SMU, US)
M. Hansen (CERN, CH)
C. G. Hu (IPHC-IN2P3, FR)
G. Iles (Imperial College, UK)
C. Joram (CERN, CH)
A. Ricci (CERN, CH, Secretary)
A. Rivetti (INFN, IT)
W. Snoeys (CERN, CH)
F. Vasey (CERN, CH)
K. Wyltie (CERN, CH)

Organised by the
European Organisation for
Nuclear Research (CERN)



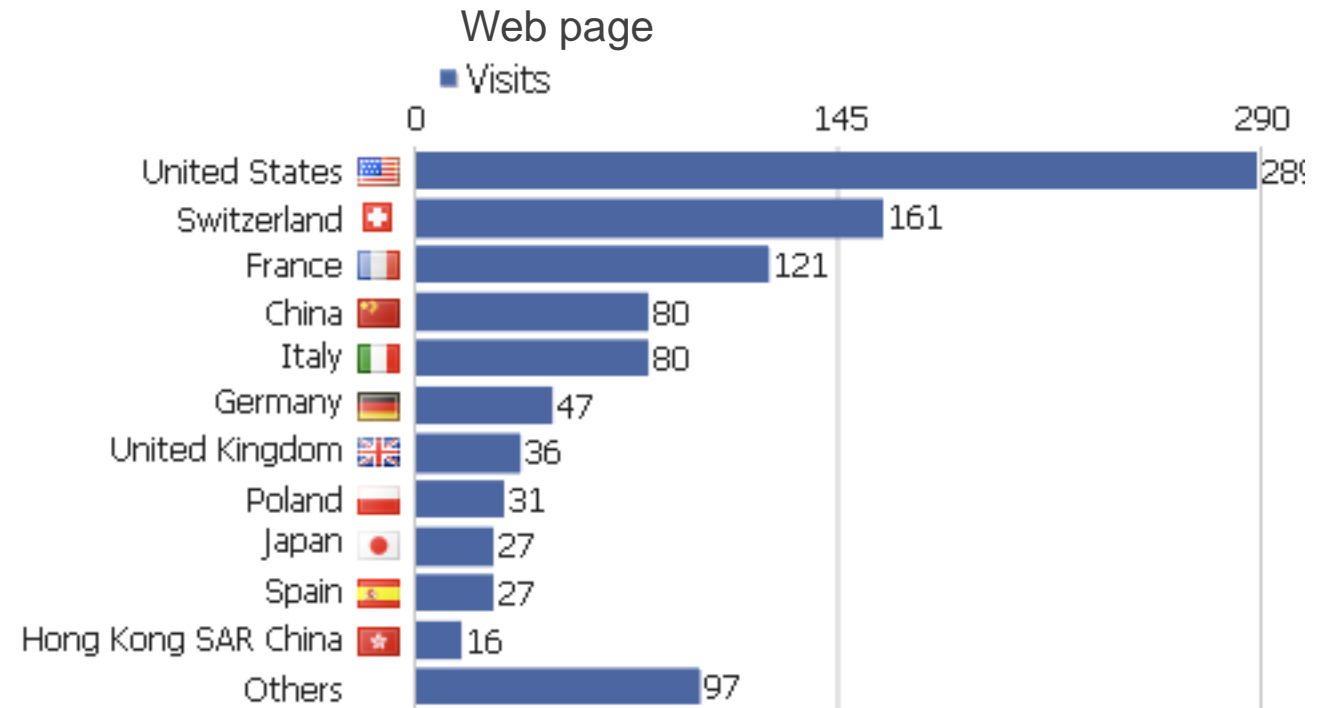
TWEPP-21

● A. Kluge

- **TWEPP21 web page**
 - <https://indico.cern.ch/e/twepp2021>
- **Presentations start daily at 11:40 CEST**
 - with exception of poster session on Thursday – 10:00 - 11:20 CEST
- **End daily at 17:00/17:16 CEST**
 - with exception of poster session on Tuesday – 17:20 - 18:40 CEST
- **No parallel sessions**
- **All oral and poster sessions via Zoom**
 - Each poster has its own zoom link → provided by the author
 - Authors need to upload their own zoom link
 - and communicate for which of the 2 sessions they are available
 - web page menu entry “Poster author session presence”

Presentations

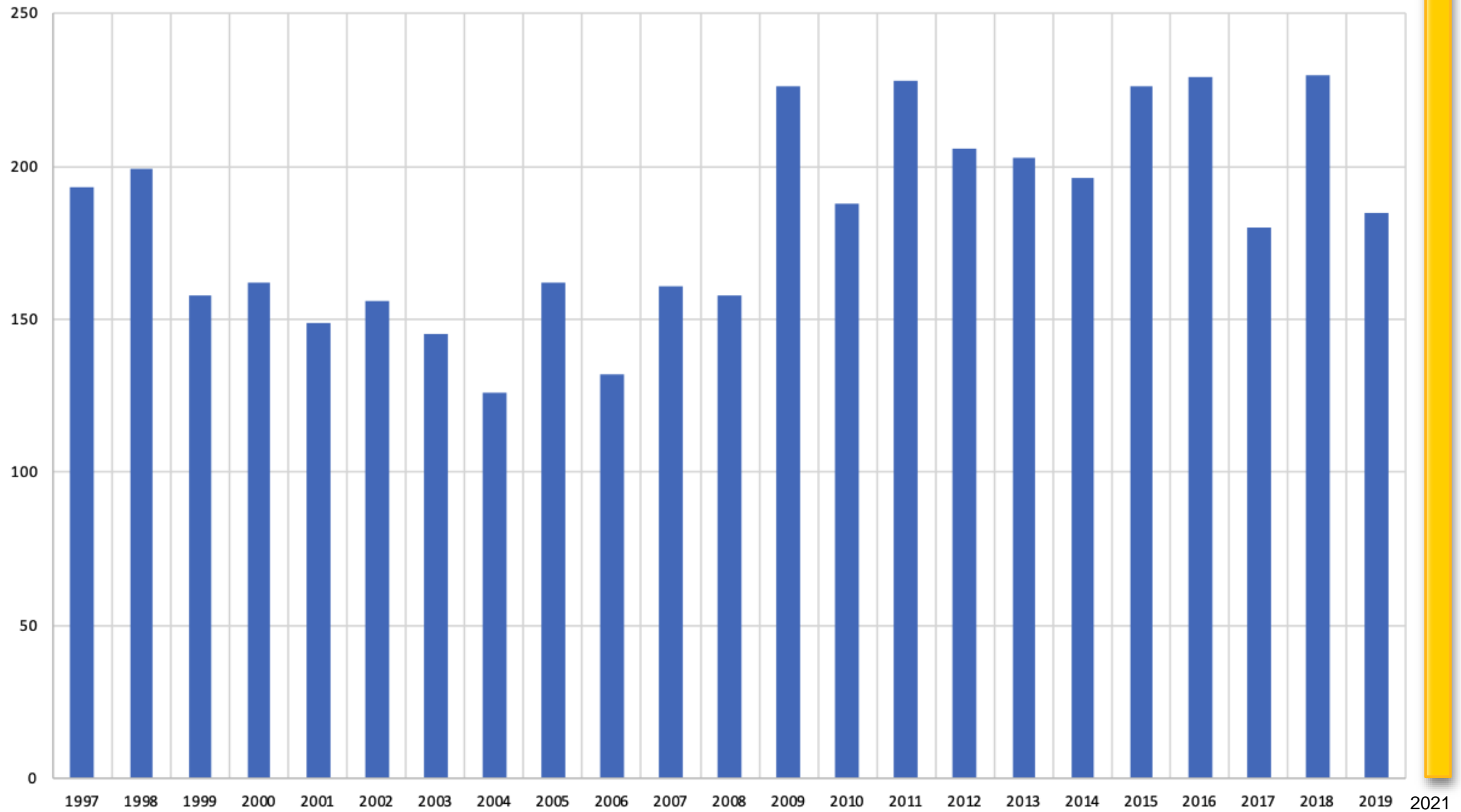
- **60 oral presentations**
- **89 poster presentations**
- **No invited talks**
 - numbers similar to TWEPP 2019
 - even though online only
- **441 registered attendees**
 - more than double than usually



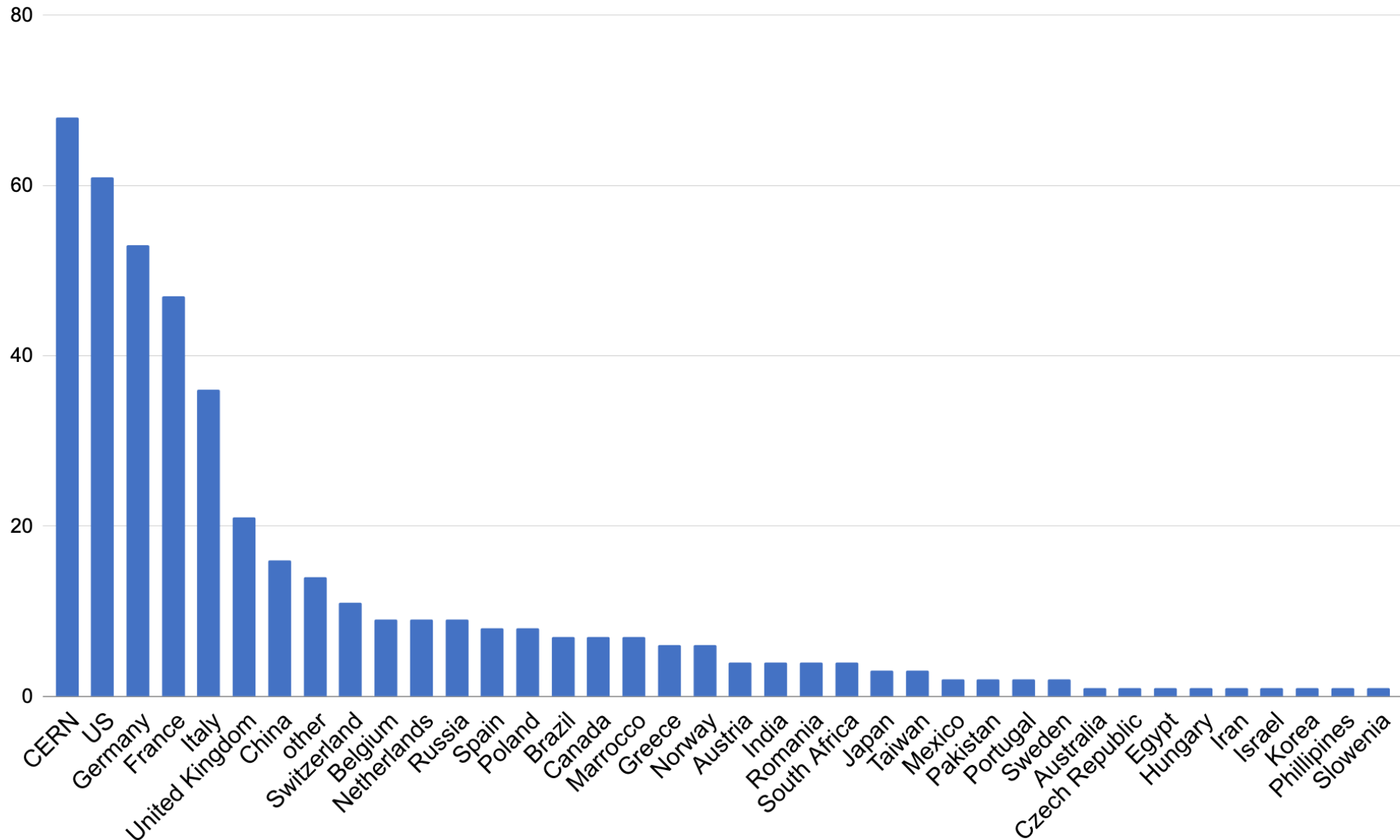
TWEPP attendance over years

441

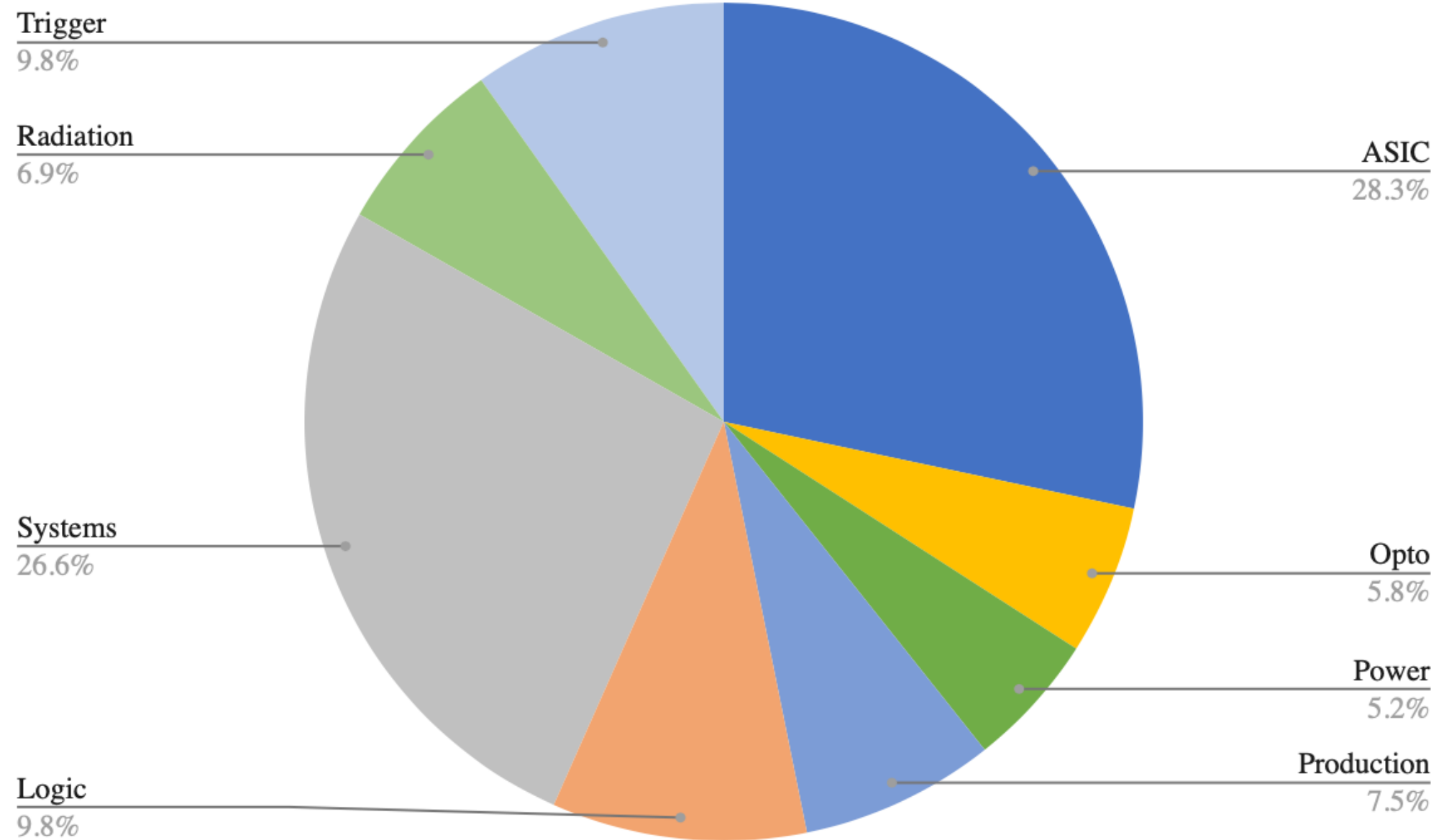
TWEPP Participants



TWEPP-21 attendee's country



173 Abstract submissions



Week agenda

ORAL															
China	India	America W	America E	CEST			Monday		Tuesday		Wednesday		Thursday		Friday
				start time											
					end time		Track		Track		Track		Track		Track
16:00	13:30	1:00	4:00	10:00	11:20								Poster		
17:20	14:50	2:20	5:20	11:20	11:36		Introductio								
17:40	15:10	2:40	5:40	11:40	11:56		Systems		Systems		ASIC		ASIC		Trigger
18:00	15:30	3:00	6:00	12:00	12:16		Systems		Systems		ASIC		ASIC		Trigger
18:20	15:50	3:20	6:20	12:20	12:36		Systems		Systems		ASIC		Logic		Trigger
18:40	16:10	3:40	6:40	12:40	12:56		Systems		Systems		ASIC		Logic		Trigger
19:00	16:30	4:00	7:00	13:00	13:20		Lunch		Lunch		Lunch		Lunch		Lunch
20:00	17:30	5:00	8:00	14:00	14:16		Systems		Systems		ASIC		Logic		Trigger
20:20	17:50	5:20	8:20	14:20	14:36		Systems		Power		ASIC		Logic		Trigger
20:40	18:10	5:40	8:40	14:40	14:56		Systems		Power		ASIC		Logic		Production
21:00	18:30	6:00	9:00	15:00	15:16		Systems		Power		ASIC		Radiation		Production
21:20	18:50	6:20	9:20	15:20	15:40		Break		Break		Break		Break		Break
21:40	19:10	6:40	9:40	15:40	15:56		Systems		Opto		ASIC		Radiation		Production
22:00	19:30	7:00	10:00	16:00	16:16		Systems		Opto		ASIC		Radiation		Production
22:20	19:50	7:20	10:20	16:20	16:36		Systems		Opto		ASIC		Radiation		Production
22:40	20:10	7:40	10:40	16:40	16:56		Systems		Opto		ASIC		Radiation		Close-out
23:00	20:30	8:00	11:00	17:00	17:16		Systems								
23:20	20:50	8:20	11:20	17:20	18:40				Poster				Committee meeting		
0:40	22:10	9:40	12:40	18:40											

Attending oral presentations

- Upload your presentations and videos
- **1 zoom room for all oral presentations**
 - Presenters switch on their cameras
- **Presenters use 'share' function of Zoom for slides**
 - if technical difficulties arise convener will share
 - or if available start the pre-recorded video
- **Session conveners are strict with 16' duration**
- **Questions**
 - Use 'Raise hand feature' of zoom and wait until called by convener
 - Use 'Chat window'

Attending Poster presentations

- **2 poster sessions**

- Tuesday pm – 17:20 - 18:40 CEST
- Thursday am – 10:00 - 11:30 CEST

- **List of posters**

- via TWEPP page menu “poster session agenda”
 - select track
 - select poster title from list
- via indico agenda
 - **ONLY** in indico agenda of **Tuesday**
 - **Thursday poster identical** to Tuesday session, but no poster list
 - click on poster session in tuesday agenda
 - click on ‘three lines’ symbol
 - select poster title from list

Poster session agenda

Poster session Tuesday, Sept 21, 17:20 - 18:40 CEST

Poster session Thursday, Sept 23, 10:00 - 11:20 CEST

ASICs

Logic

Opto-electronics

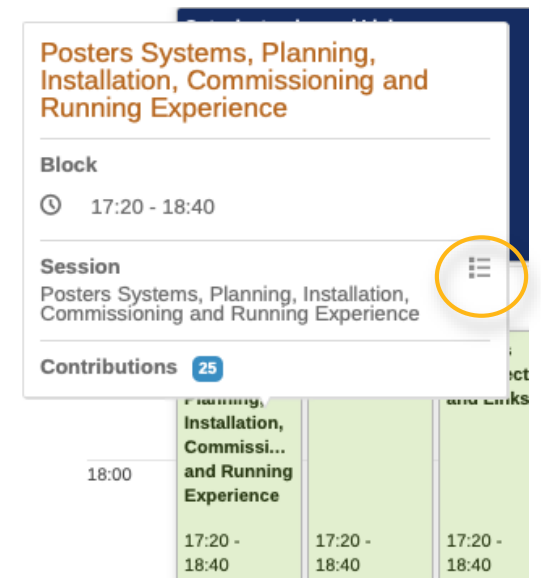
Radiation

Power

Production

Systems

Trigger



Posters Systems, Planning, Installation, Commissioning and Running Experience

Block
🕒 17:20 - 18:40

Session
Posters Systems, Planning, Installation, Commissioning and Running Experience

Contributions 25

Time	Topic
17:20 - 18:40	Planning, Installation, Commissioning and Running Experience

Attending Poster presentations

- If you want to visit a poster and discuss with the author
 - access documents at bottom of page
 - Poster & Video & Author **Zoom link for discussions**
 - switch on camera and microphone
 - 1 zoom room each for each poster
 - if password is requested → same as in email you received
 - verify author presence on
 - **“Poster author session presence”** menu on TWEPP main page

102 A precision Time of Flight measurement system for the TORCH prototype detector

👤 Rui Gao (University of Oxford (...))

🕒 21/09/2021, 17:20

Systems, Planning, Inst... **Poster**

 poster-102.pdf

 poster-102.pptx

 TWEPP2021_TORCH_Figures.pdf

 video-102.mp4

 Zoom link for questions poster 102

Oral/poster awards

- Oral presentation award
- Poster presentation award
- Friday, September 24, 16:40
- Referees
 - TWEPP scientific committee

Topical Workshop on Electronics for Particle Physics TWEPP2021

Oral Presentation Award

The title of the presentation
Z. Author¹, B. Author², C. Author³

¹CERN, Geneva

² Institute for High Energy Physics, Gross Enzersdorf

³University of Physics, Zell am See



24 September, 2021

Scientific Committee Chair

Date

TWEPP scientific Committee

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F. Vasey (CERN, CH)
K. Wyllie (CERN, CH)

- **JINST** - <https://jinst.sissa.it/jinst/>
 - submission using JINST web based infra structure
 - each paper assigned to 2 referees
 - from the TWEPP scientific committee
 - <https://indico.cern.ch/event/1019078/page/22919-twepp-scientific-committee>
- **Length**
 - number of pages must not exceed 5 pages
 - (excluding the title and abstract page) for both oral and poster contributions
- **Deadline October 24, 2021 → no extension**
- **Instruction to authors**
 - TWEPP web page
 - <https://indico.cern.ch/event/1019078/page/22920-proceedings-instruction-for-authors>
 - review will be stricter
 - 2 rounds of review
 - do not waste 1 round with insufficient formatting, structure and writing style

- Describe specifications and implementation challenges arising from these specifications
- Use quantitative (numbers) statements, comparisons and performance figures
 - and do not give statements that a given parameter needs to be high or low
- Limit introduction to relevant information to work you describe in the paper
 - Repetition of standards phrases about the LHC luminosity upgrade might only be useful if information is set in direct context to your work
- Describe work/challenge/complexity so that it can be understood by a scientist outside your field of competence
 - in contrast to writing an experiment collaboration note
- Describe why your work is worth being presented at a scientific/technical workshop
- Describe challenges/difficulties during implementation and how they were solved or why not
- Check quality of formatting, language and style
 - (i.e. incoherent use of unit of measure; different conventions used in the same paper such as abbreviations "s", "sec", "seconds" and position: "C", "C"; poorly organized tables; etc.)

TWEPP user group meetings

- Online presentations via zoom
- No registration needed
- <https://indico.cern.ch/event/926254/>
 - Opto-electronics → 27 Sept 14:00 CEST
 - Microelectronics → 5 Oct 14:00 CEST
 - FPGA → Dec

Enjoy TWEPP-21



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