

LHCP Conference Series

Summary of LHCP 2020, status of LHCP 2021

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(On behalf of the LHCP Steering Committee)

August 1st, 2020

Large Hadron Collider Physics (LHCP) Conference Series

- Successful fusion of two international conference series
 - Physics at Large Hadron Collider
 - Hadron Collider Physics Symposium
- Review of the latest experimental and theoretical results from the LHC physics program
 - Unique international venue for lively scientific discussions focused on LHC physics, detector technology, upgrades, and future physics opportunities
 - Typical attendance: 300 –400, > 25% students
- Emphasis on engaging early career scientists and the public
 - Plenary talks: Young Scientist Forum, Outreach efforts @ LHC
 - Public outreach: each edition features a public event in the local language
 - Strong encouragement for experiments to select a diverse and outstanding set of junior scientists to give talks and present posters

LHCP Organization

- Committees

- International Advisory Committee (IAC)
- Conference Co-chairs (2 international, 2 local)
- Local Organizing Committee (LOC)
- Programme Committee (PC)
- Scientific Secretariat
- Technical Secretariat
- Steering Committee, consisting of
 - International Conference Co-chairs
 - Chairs of the IAC, LOC, and PC
 - Scientific Secretariat

- Continuity

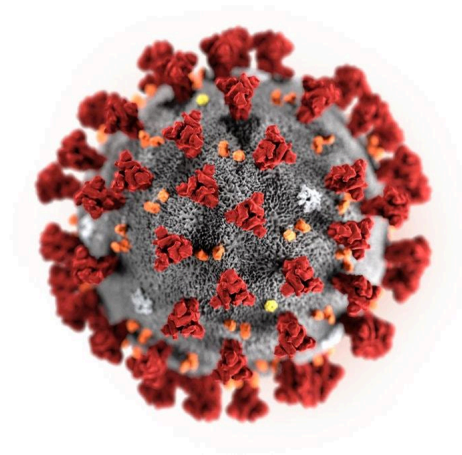
- International Co-chairs serve two years as Conference Co-Chair, then one year as IAC Chair, then one year as IAC Deputy Chair, and then 4 years as a regular IAC member

Venue Rotation

- LHCP rotates through three regions in a four-year cycle
 - Europe → Americas → Europe → Asia & Oceania
 - Competitive bidding process (typically 3 –4 **very strong bids** each year)
 - Venue for LHCP(N) is selected at the IAC meeting during LHCP(N –2)
 - eg: during LHCP 2018, the IAC selected Paris to host LHCP 2020
- Past venues
 - 2013 – Barcelona, Spain
 - 2014 – New York, USA
 - 2015 – St. Petersburg, Russia
 - 2016 – Lund, Sweden
 - 2017 – Shanghai, China
 - 2018 – Bologna, Italy
 - 2019 – Puebla, Mexico

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 - **2020 – originally scheduled to held in Paris, France**



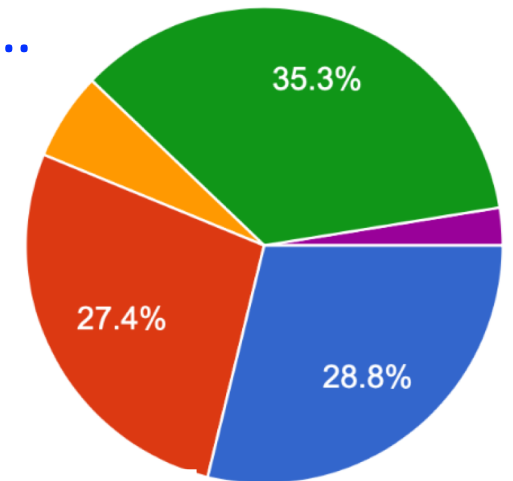
With the very strong encouragement of the LHC collaborations and with technical support from CERN/IT we decided to go online.

Very challenging task: < 2 months for planning the online conference!

Online LHCP 2020 format



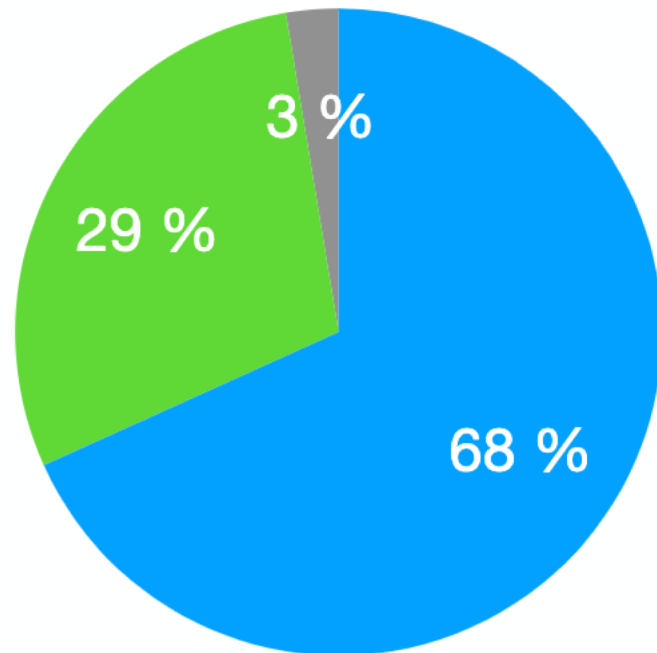
- “No fee” fully online conference
- Decided to stick to a one-week conference
 - Talks scheduled during 12:30-18:30 CEST with two 15’ breaks and up to 7 parallel sessions running at the same time
- Zoom-based, webinars for plenaries & parallels, posters with videos and Zoom-rooms, “discord” channels for informal chats/discussion...
 - provided live captioning of some talks and
 - recordings of all talks with auto transcription
- Attendance:
 - Initially expected attendance: 350-400
 - # of online LHCP 2020 registrants: 1301
 - Peak attendance: ZOOM: 699, Webcast: 377
 - Peak Parallel: single session: 151, all sessions:~500



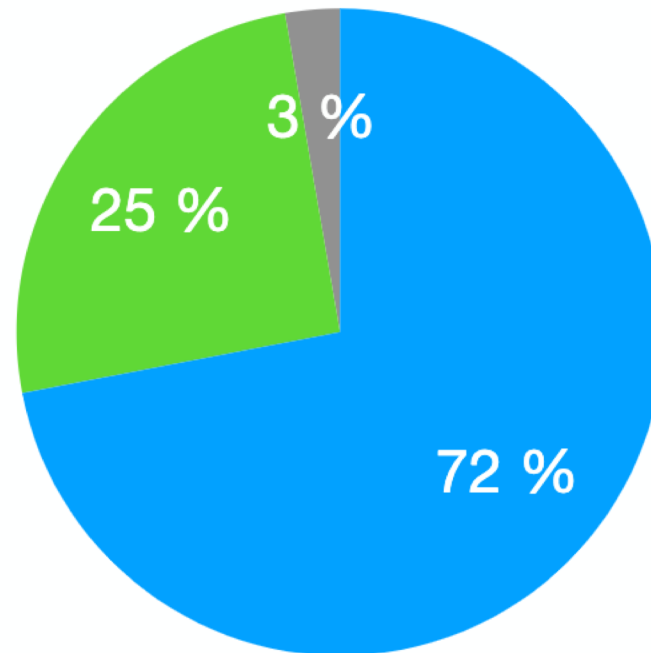
- Student
- PostDoc
- Junior staff (e.g. tenure-track)
- Senior staff (e.g. permanent, tenured...)
- Other/retired

Demographics information

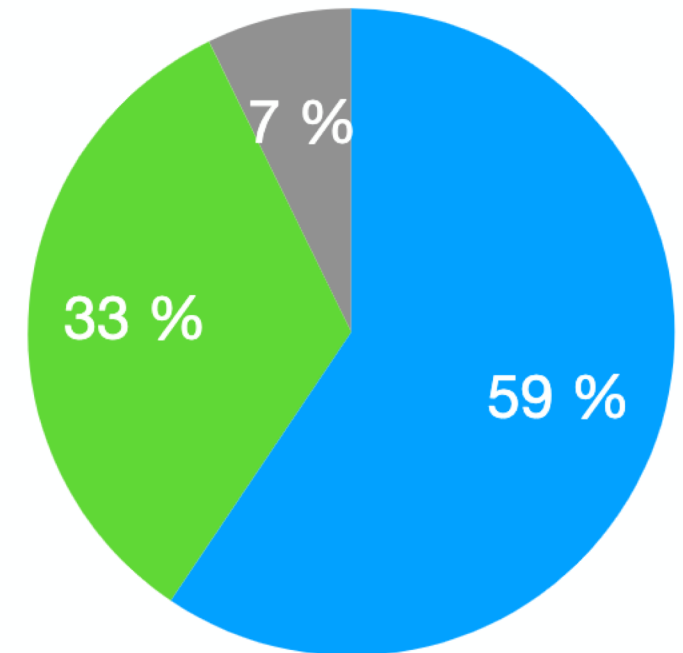
● Male
● Female
● Rather not say



Participants (1301 persons)

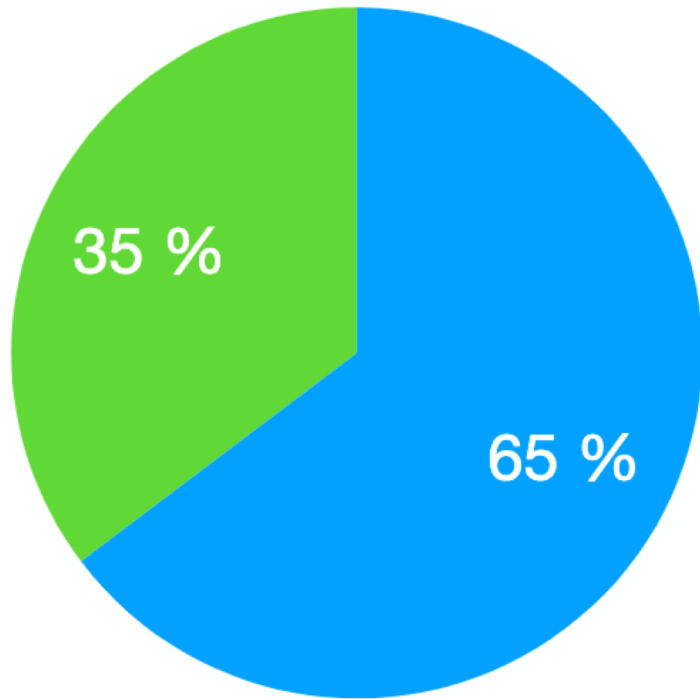
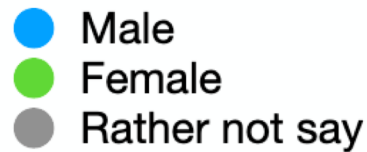


Speakers (257 persons)

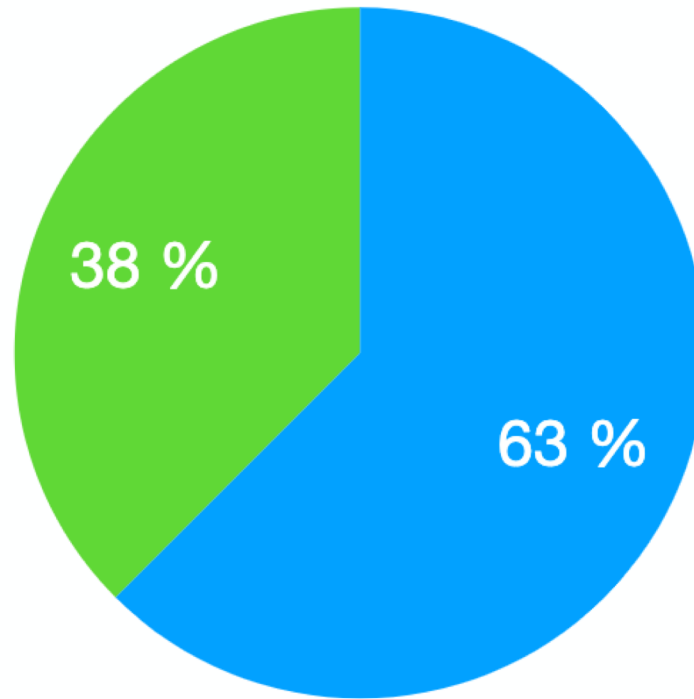


Conveners (75 persons)

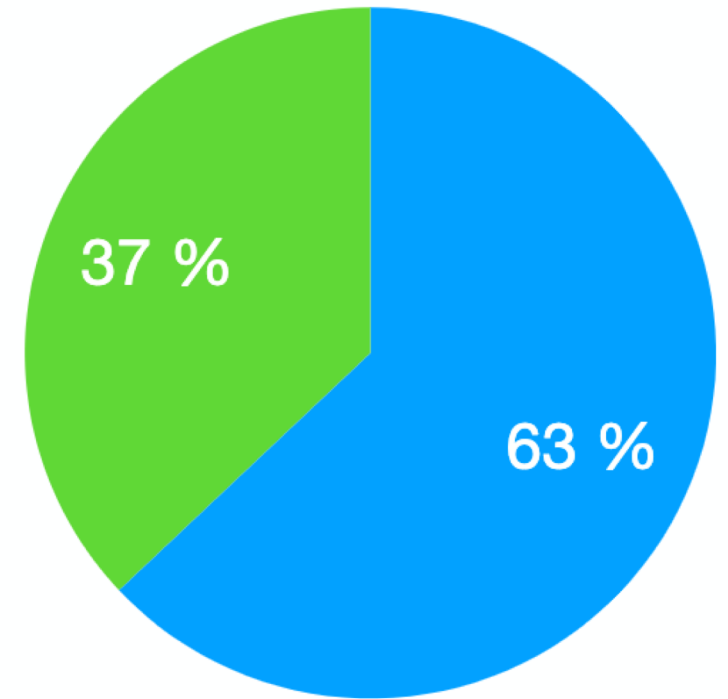
Demographics information: LHCP committees



PC (17 persons)



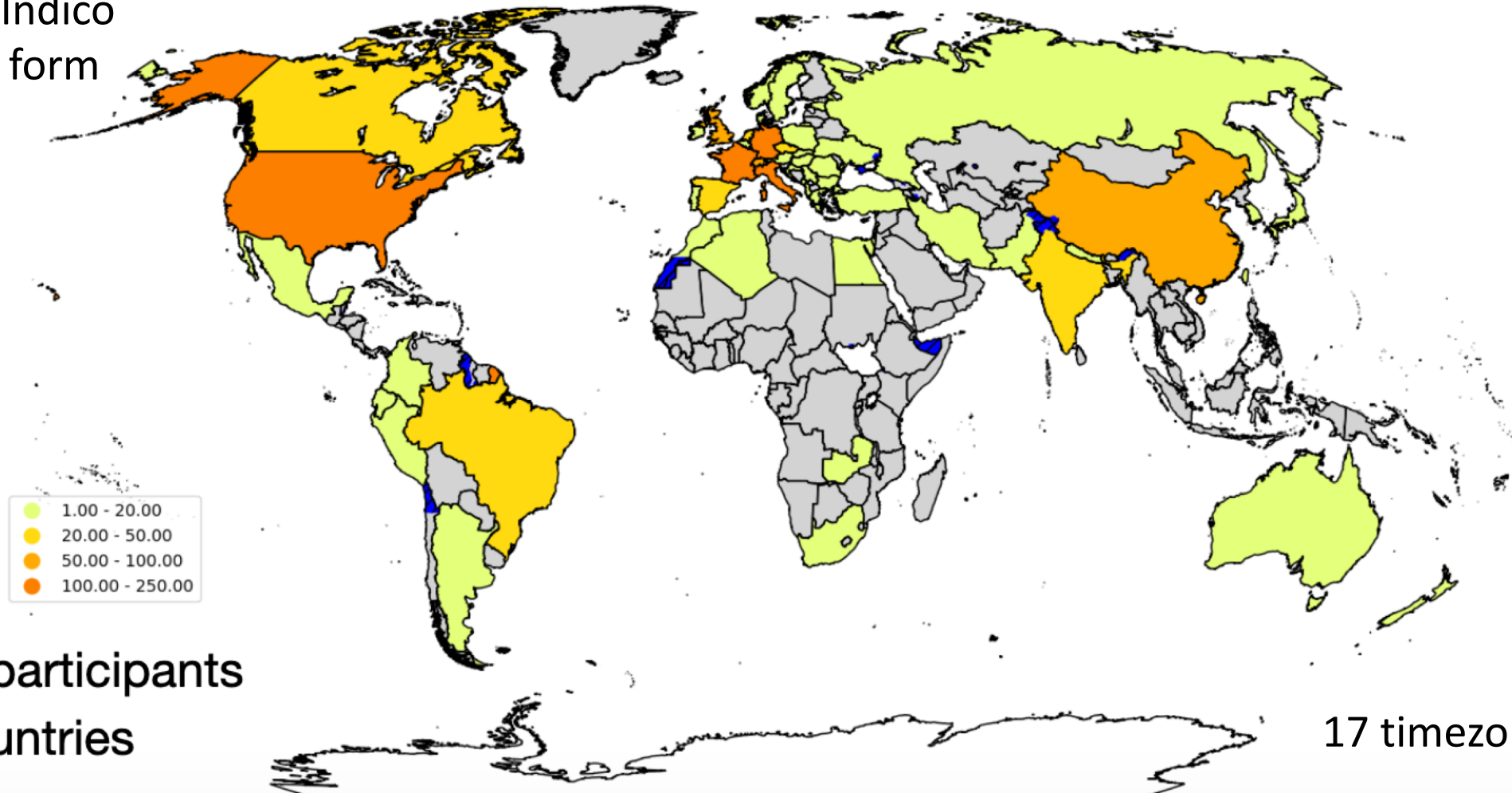
SC (8 persons)



IAC (27 persons)

Geographical distribution of participants

Based on institute
declared in Indico
registration form



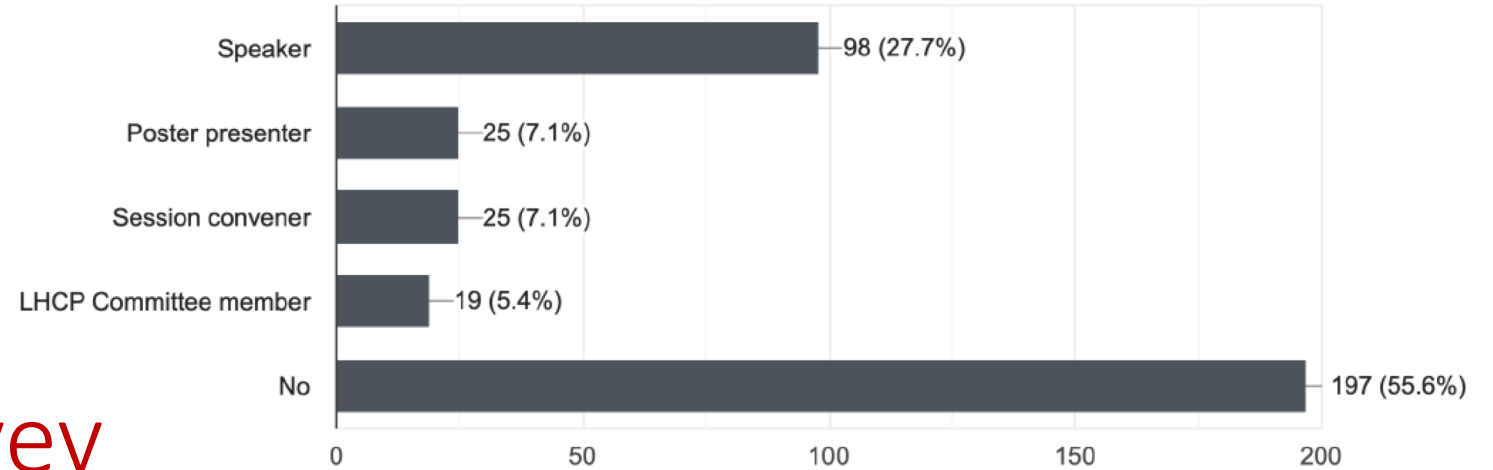
1301 participants
56 countries

17 timezones spanned

Post-conference survey results: Participation/roles

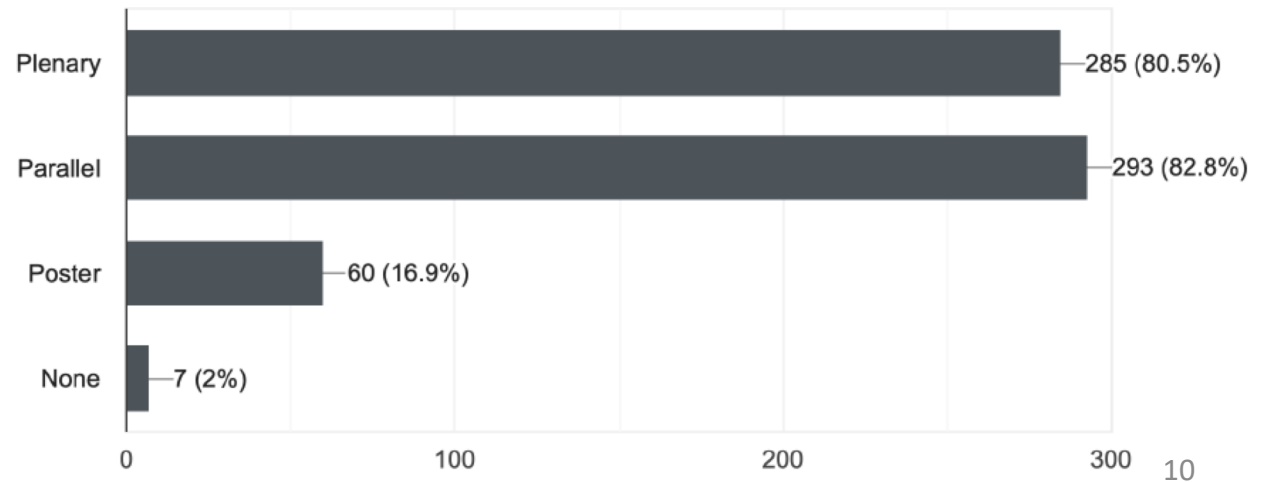
In addition to your participation, did you have any other role(s) in the conference?

354 responses



Which sessions did you attend?

354 responses

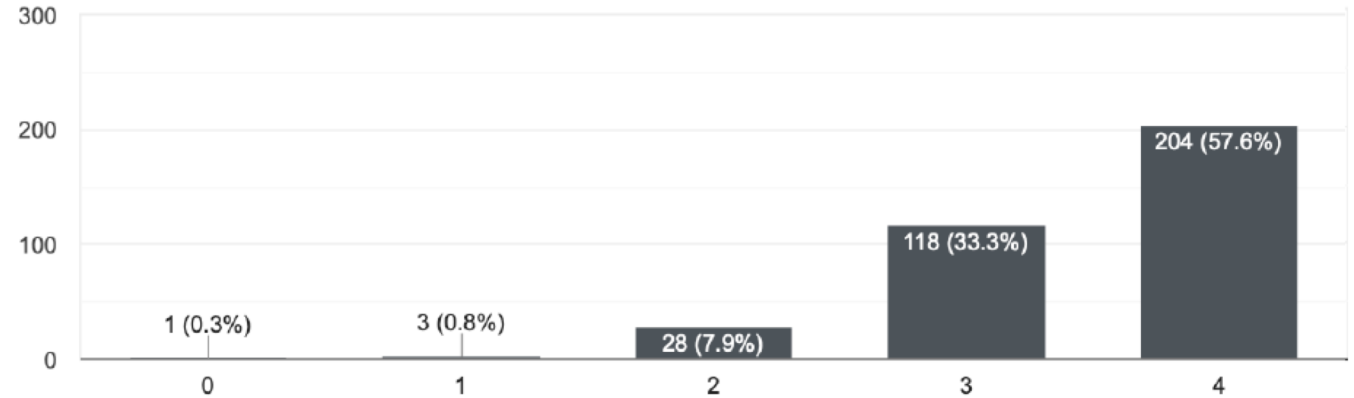


Post-conference survey results: Format (time)

0: not at all satisfied
4: completely satisfied

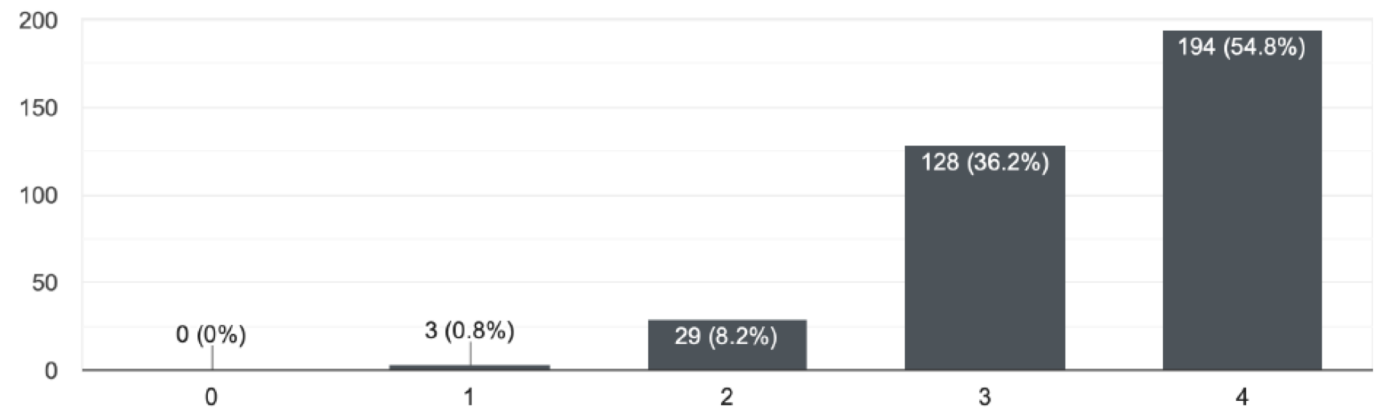
To allow the largest time zone coverage, the conference was concentrated between 12:30-18:30 (CEST), with two 15' breaks and up to 7 parallel sessions running in parallel. How satisfied are you with this choice?

354 responses



How satisfied are you with having the parallel sessions in the central part of the daily schedule and the plenary sessions at the beginning or at the end of the schedule?

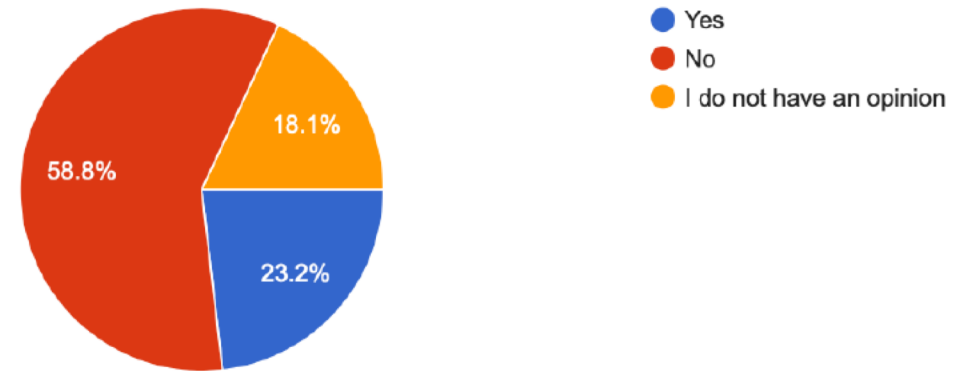
354 responses



Post-conference survey results: Format

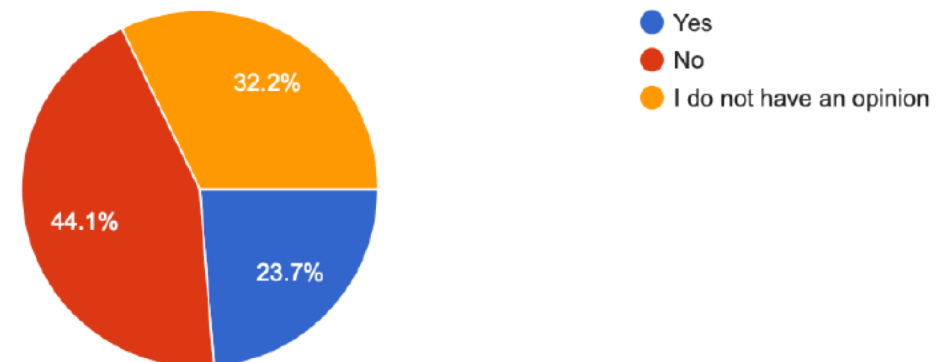
A possible alternative of the proposed format could be a 2 week long conference, with less parallel sessions running in parallel, longer breaks, and about 4 hours of conference per day. Would you prefer this alternative?

354 responses



A possible alternative of the proposed format could be "premiere" sessions whereby talks are live and followed by 1 or 2 "replay" sessions to cover all time zones and during which recorded talks will be retransmitted. Would you prefer this alternative?

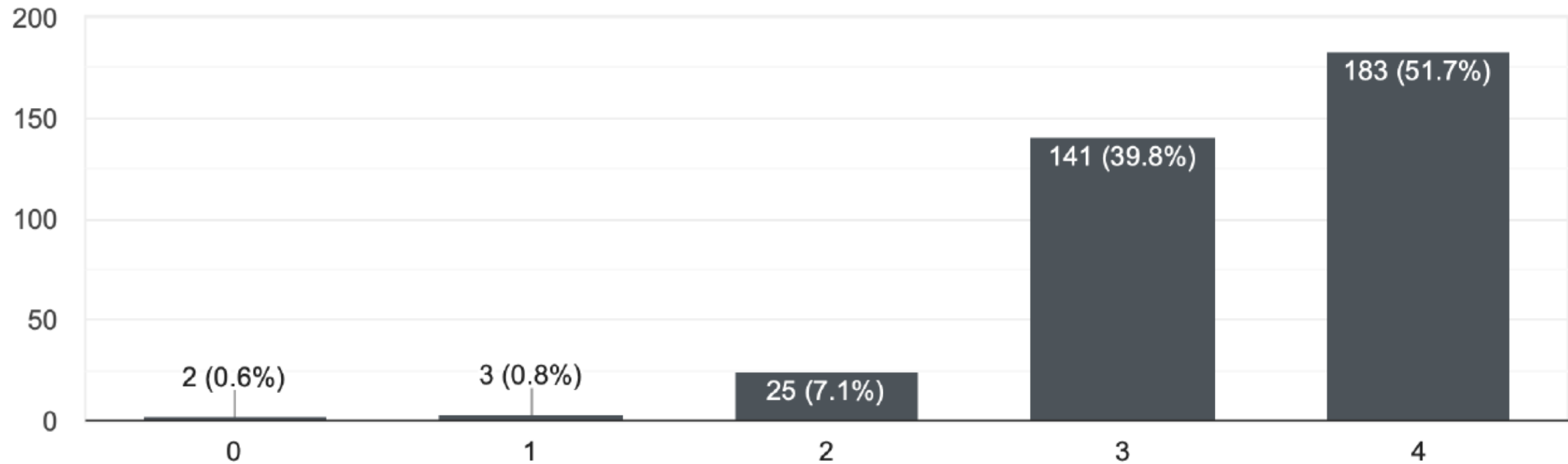
354 responses



Post-conference survey results: overall

How satisfied were you with the LHCP2020 online conference?

354 responses



0: not at all satisfied

4: completely satisfied



LHCP 2021

- Re-scheduled to be held in Paris: 7 – 12 June
 - LHCP 2022 to be held in Taipei (Taiwan)
- Preparations for LHCP 2021 are in full swing and build upon the work initially done for hosting LHCP 2020 in Paris
- Funding:
 - We are grateful to IUPAP for providing funds for LHCP2020 and for allowing us to now use them for LHCP 2021 instead
 - As was done previously, IUPAP funding will go primarily to support students and early career scientist to attend and give presentations.
 - Consider also for satisfying accessibility needs ?
 - Additional funds obtained from local and regional organizations (IN2P3, P2IO + P2I), organizing labs (LLR/LNPHE/IJCLab/IRFU); funds pledged (FRIF, La Diagonale) for outreach activities
 - Support expected from CERN; additional sources being explored

Local Co-chairs:

Giovanni Marchiori (LPNHE)
Roberto Salerno (LLR)

International Co-chairs:

Tulika Bose (Wisconsin)
Dave Charlton (Birmingham)

IAC Chair:

Bruno Mansoulie (IRFU-CEA)

IAC Deputy Chair:

Jim Olsen (Princeton)

Programme Committee Chairs:

Wolfgang Adam (HEPHY)
Klaus Monig (DESY)

Scientific Secretary:

Laure Massacrier (IJCLab)

LHCP 2021 Program

- The broad outline of the scientific program will be similar to past editions and is currently being fine-tuned;
 - plenary and parallel sessions interspersed throughout the week
- A public outreach event is being planned
- Taking advantage that it is Paris, and to save money overall, no formal excursions are planned. Tourist agents will be available for consultation.

9:00 AM	Plenary Opening	Plenary	Plenary	Plenary	Plenary	Plenary	9:00 AM
9:30 AM	1:45	2:00	2:00	2:00	2:00	2:00	9:30 AM
10:00 AM							10:00 AM
10:30 AM	Coffee break						10:30 AM
11:00 AM	0:30	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break	11:00 AM
11:30 AM	Plenary Opening	Parallel	Parallel	Parallel	Parallel	Plenary Closing	11:30 AM
12:00 AM	1:45	1:30	1:30	1:30	1:30	2:00	12:00 AM
12:30 AM							12:30 AM
1:00 PM	Lunch	Lunch	Lunch box	Lunch	Lunch		1:00 PM
1:30 PM	1:30	1:30		1:30	1:30	Lunch box	1:30 PM
2:00 PM							2:00 PM
2:30 PM	Parallel	Parallel		Parallel	Parallel		2:30 PM
3:00 PM	1:30	1:30		1:30	1:30	Adjourn	3:00 PM
3:30 PM			Sight seeing				3:30 PM
4:00 PM	Coffee break	Coffee break		Coffee break	Coffee break		4:00 PM
4:30 PM	0:30	0:30		0:30	0:30		4:30 PM
4:30 PM	Plenary	Plenary		Plenary	Plenary		4:30 PM
5:00 PM	1:30	2:00		2:30	2:00		5:00 PM
5:30 PM							5:30 PM
6:00 PM							6:00 PM
6:30 PM		Wine and Cheese posters					6:30 PM
7:00 PM	Reception		Outreach event				7:00 PM
8:00 PM					Gala dinner		8:00 PM
9:00 PM							9:00 PM

Preliminary

Summary & Conclusions

- LHCP 2020, originally scheduled to be held in Paris, was held as a fully online conference from 25 - 30 May.
 - Waiving of the registration fee allowed us to bring the LHC community together, in larger and more diverse numbers than before
 - Overall, it was very well-received, with positive feedback from surveyed participants
 - My personal thanks to the entire LHCP2020 Steering Committee for pulling this off!
 - Special thanks to the “Local” Co-chairs Giovanni Marchiori and Roberto Salerno and my co-chair Bruno Mansoulie!
- Preparations for LHCP 2021 (Paris, 7 – 12 June) are in full swing
- Many thanks to IUPAP for their continuing generous support of LHCP! Your contribution makes a big difference!
 - As before, IUPAP funding will be used to support the participation of students and early career physicists from the local and international scientific communities to attend LHCP, give talks, and present posters.
 - We plan to maintain this tradition and enable the vibrant contribution of young scientists to LHCP 2021 (and future editions)