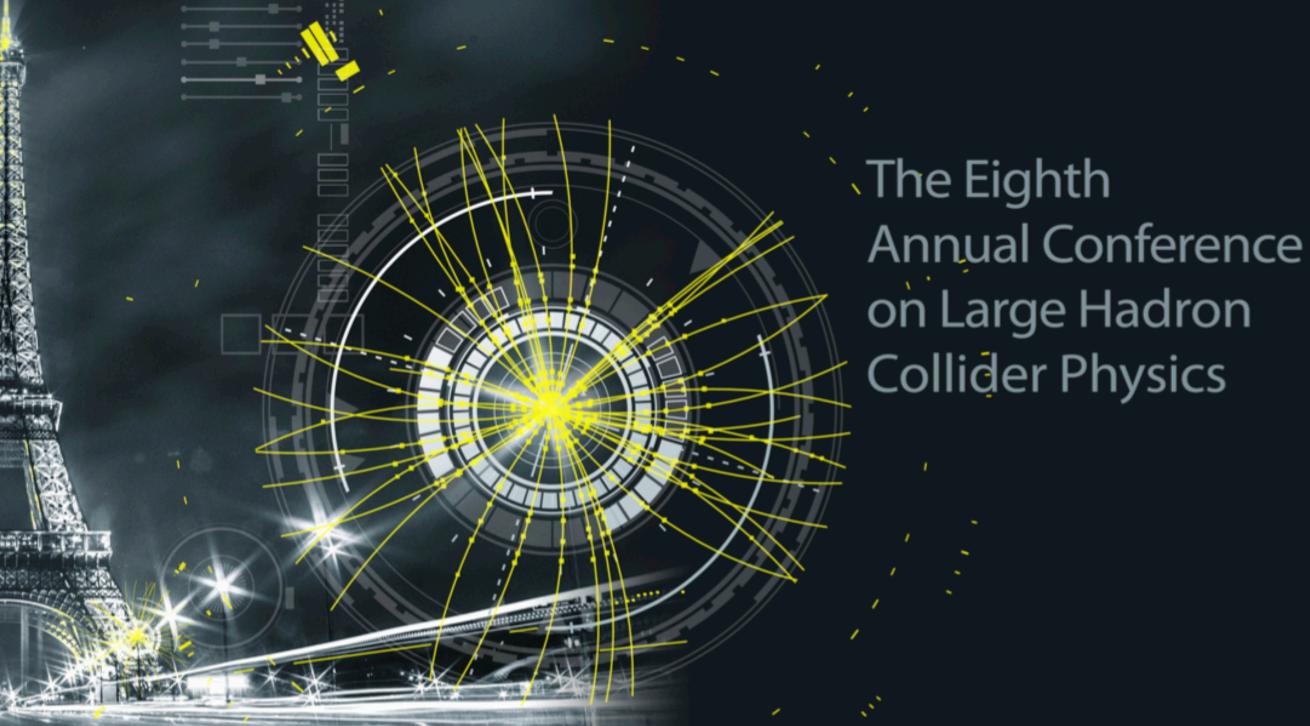
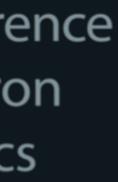
# May 25-30, 2020 Online

## https://indico.cern.ch/event/856696/

Giovanni Marchiori (APC) - Roberto Salerno (LLR) on behalf of the LHCP2020 steering committee







# Large Hadron Collider Physics (LHCP) **Conference Series**

## Successful fusion of two international conference series

- Physics at Large Hadron Collider
- Hadron Collider Physics Symposium

- 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

Review of the latest experimental and theoretical results from the LHC physics program





# Venue rotation

LHCP rotates through three regions in a four-year cycle Europe  $\rightarrow$  Americas  $\rightarrow$  Europe  $\rightarrow$  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

- LHCP 2013 Barcelona, Spain
- LHCP 2014 New York, USA
- LHCP 2015 St. Petersburg, Russia
- LHCP 2016 Lund, Sweden
- LHCP 2017 Shanghai, China
- LHCP 2018 Bologna, Italy
- LHCP 2019 Puebla, Mexico



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- LHCP 2019 Puebla, Mexico

LHCP 2020 – Originally scheduled to held in Paris, France

Roberto Salerno

Virtual Meeting on Virtual Meetings workshop, 5-6 May 2021

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 format**

"No fee" fully online conference

Decided to stick to a one-week conference Talks scheduled during 12:30-18:30 CEST Up to 7 parallel sessions Two poster sessions With two 15' breaks between sessions

Plenaries Zoom webinars + webcast Parallels Zoom webinars Posters with pre-recorded 3' videos and Zoom rooms for discussion Discord channels for informal chats/discussion... Provided live captioning of some talks and recordings of all talks with auto transcription Virtual Meeting on Virtual Meetings workshop, 5-6 May 2021 Roberto Salerno

	MONDAY 25/5/2020	TUESDAY 26/5/2020	27/5/2020	28/5/2020	FRIDAY 29/5/2020	30/5/2020	
10:30 AM							10:30 AM
11:00 AM							11:00 AM
11:30 AM					Poster session 2		11:30 AM
12:00 AM							12:00 AM
12:30 AM	Plenary	Plenary	Plenary	Plenary	Parallel	Plenary	12:30 AM
1:00 PM	Opening	Top physics	Heavy lons	Electroweak physics	TOP HIG EWK FLAV	BSM-2	1:00 PM
1:30 PM	2:15	2:00	2:00	2:00	QCD+HIN BSM-1 BSM-2	1:30	1:30 PM
1.001 M					1:30		1.50 1 1
2:00 PM					Parallel	Plenary	2:00 PM
2:30 PM			1	1	TOP+HIG	Closing	2:30 PM
		Parallel	Parallel	Parallel	QCD+FLAV		
3:00 PM	Parallel TOP EWK	HIG FLAV QCD BSM-2	COP EWK	HIG FLAV QCD HIN	BSM-1+2 LHC+ OUT	2:15	3:00 PM
3:30 PM	HIN BSM-1	DET PERF	BSM-1 PERF	BSM-2 DET	1:30		3:30 PM
4:00 PM	DET PERF TOO	тоо 1:30	1:30	0UT 1:30	Plenary		4:00 PM
	1:30				Flavor physics		
4:30 PM	Plenary	Plenary QCD	Plenary Higgs	Plenary BSM-1	2:30		4:30 PM
5:00 PM	Upgrades				2.00		5:00 PM
5:30 PM	1:45	2:00	2:00	2:00			5:30 PM
6:00 PM							6:00 PM
6:30 PM					1		6:30 PM
7:00 PM				Poster session 1			7:00 PM
8:00 PM							8:00 PM
9:00 PM							9:00 PM



# Code of conduct and conduct advisors

## Code of conduct

The policy of the LHCP2020 conference is that all participants should enjoy a comfortable experience, and that they will treat each other with respect at all times and behave professionally.

Participants of the LHCP2020 conference are required to comply with the CERN code of conduct: http://legal.web.cern.ch/ethics/cern-code-conduct.

In case of bad behaviour, including personal harassment, the conference organisers may, after due consideration, take such action they deem appropriate, including warning or expulsion from the conference. If you feel that you have suffered from harassment while attending this conference, please contact:

- Giovanni Marchiori: giovanni.marchiori@cern.ch
- Zaida Conesa del Valle: zaida.conesa.del.valle@cern.ch •

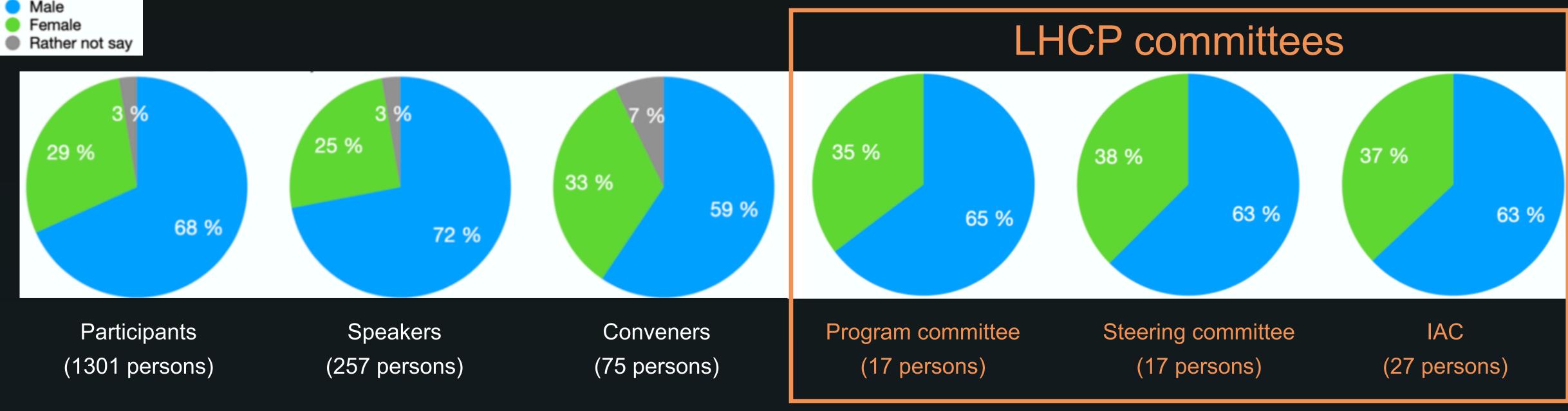
This applies both to the live discussions in the zoom webinars as well as in the discord chat.



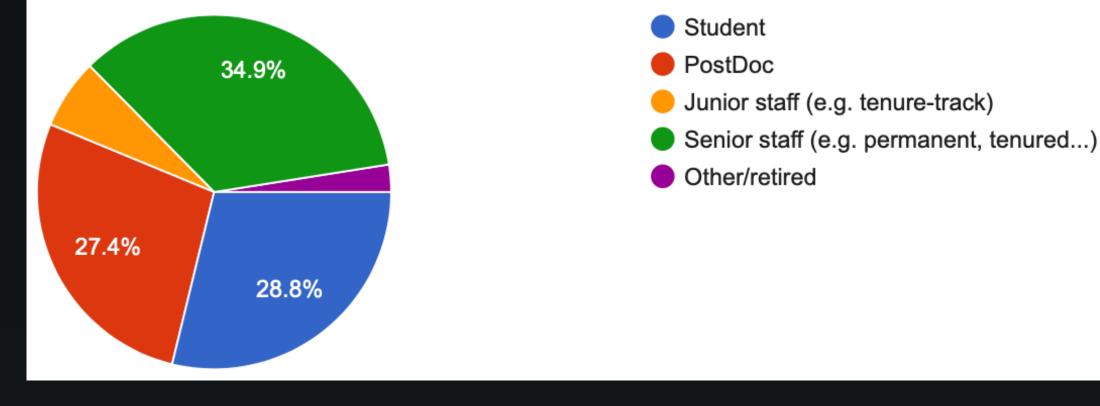
# Attendance

Initially expected attendance: 350-400 # of online LHCP 2020 registrants: 1301 Peak attendance: ZOOM: 699 + Webcast: 377 Peak parallel sessions: single session: 151, all sessions: ~500

## **Demographics informations**

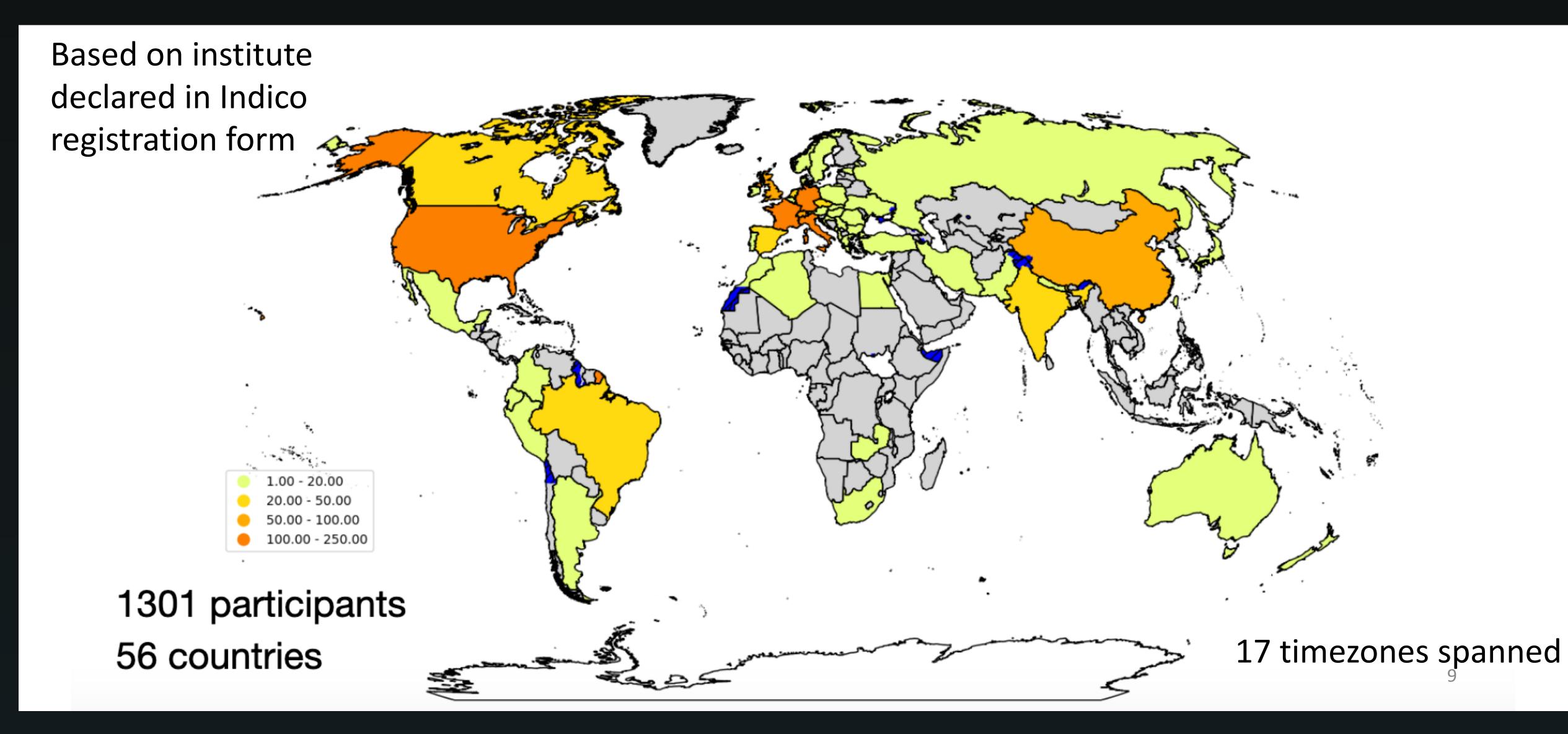


Roberto Salerno





# Geographical distribution of participants



Roberto Salerno



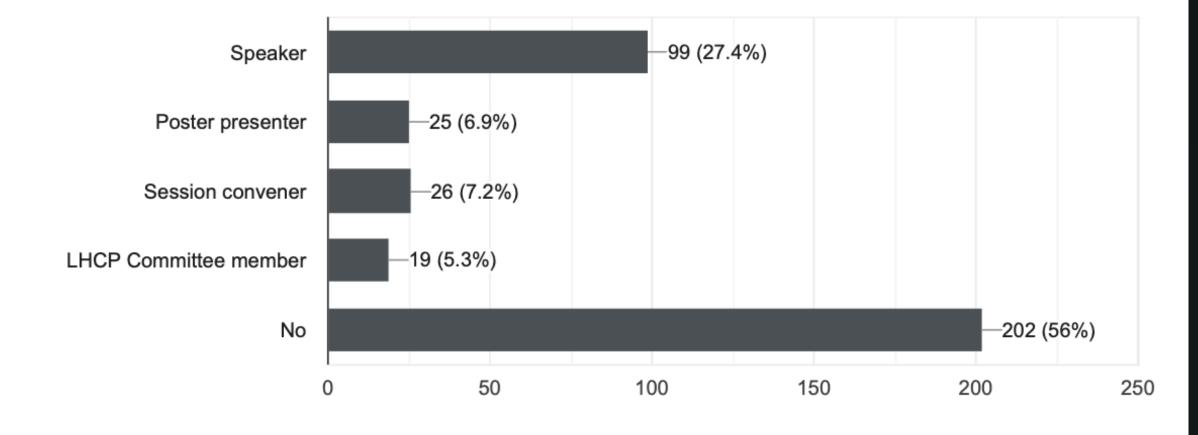


# **Post-conference survey** All the participants were asked to answer a survey

## Roles

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

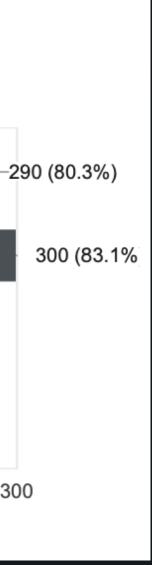




Virtual Meeting on Virtual Meetings workshop, 5-6 May 2021

## Participation

# 361 responses Plenary Parallel Poster 0 100 200 300



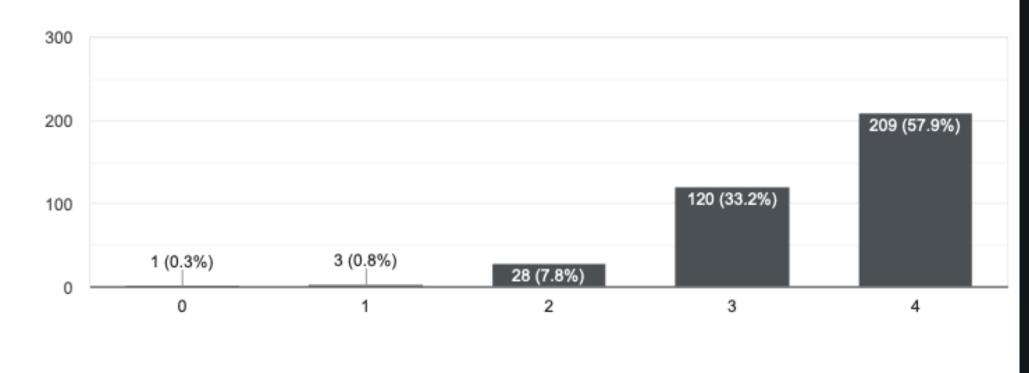


# Time format and possible alternatives

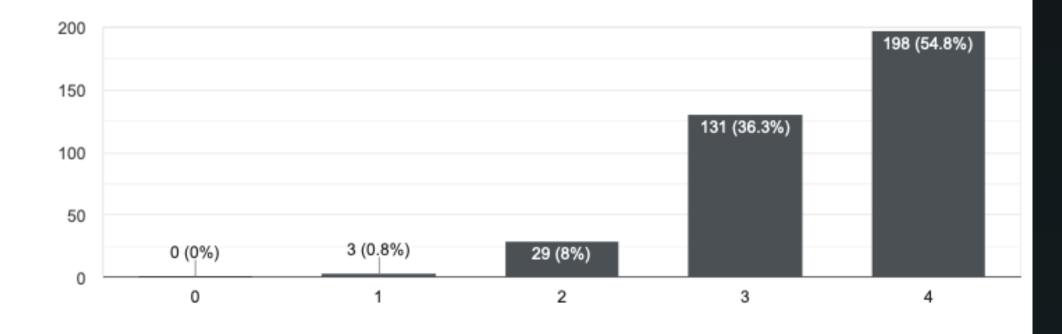
## Post-conference survey results

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?

361 responses



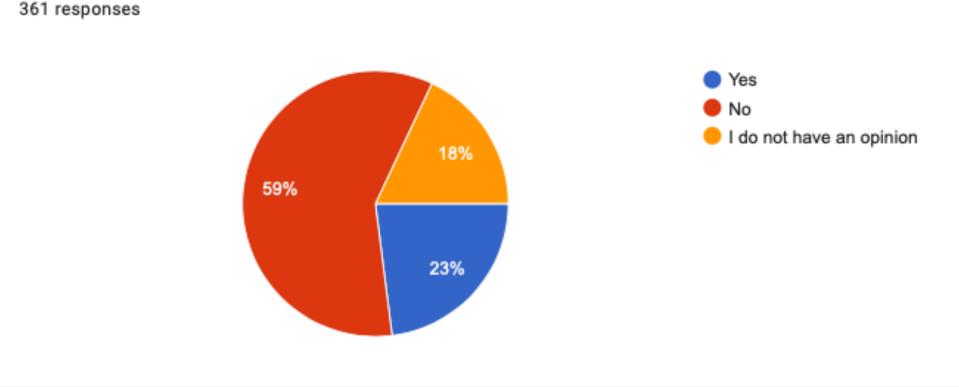
How satisfied are you with having the parallel sessions in the central part of the daily schedule and the plenary sessions at the beginning or at the end of the schedule? <sup>361 responses</sup>



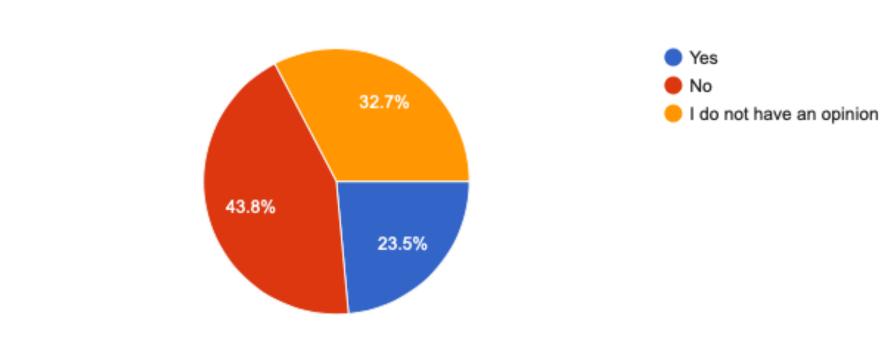
## Roberto Salerno

## Virtual Meeting on Virtual Meetings workshop, 5-6 May 2021

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?



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 recored talks will be retransmitted. Would you prefer this alternative?



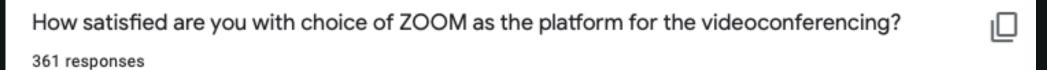
361 responses

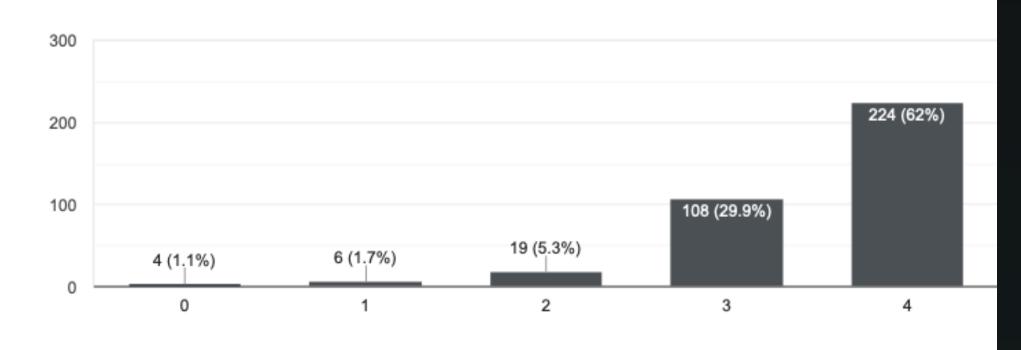


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# Technical set-up

## Post-conference survey results





Plenary sessions were also broadcast on Webcast. Did you join any Webcast?

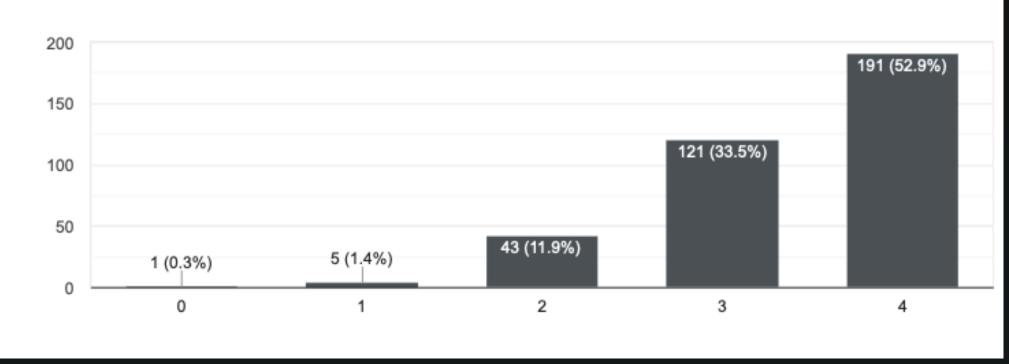
Yes, because I could not connect to the ZOOM Webinar Yes, because I did not want to use ZOOM 83.4% 😑 No 10.5%

361 responses

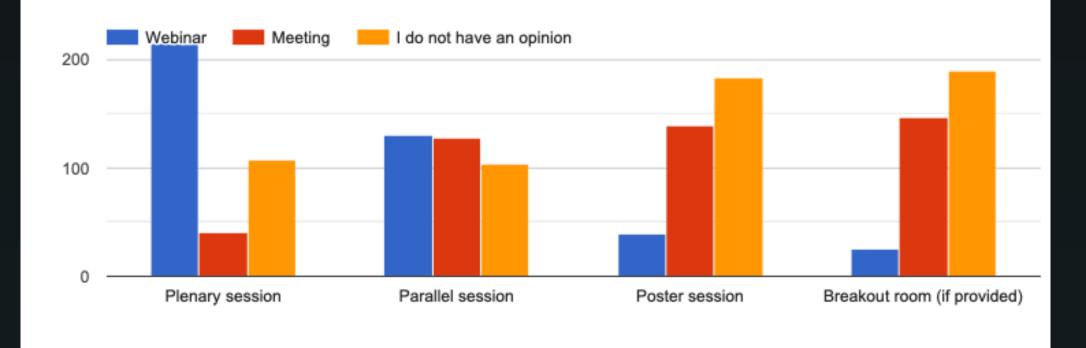
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How satisfied were you with the ZOOM raise-hand feature for the question and answer (Q&A) phase?





The ZOOM "Webinar" style was chosen over the regular "Meeting" one for all the plenary and parallel sessions. Which in your opinion would be the most appropriate format for the sessions?



## Virtual Meeting on Virtual Meetings workshop, 5-6 May 2021



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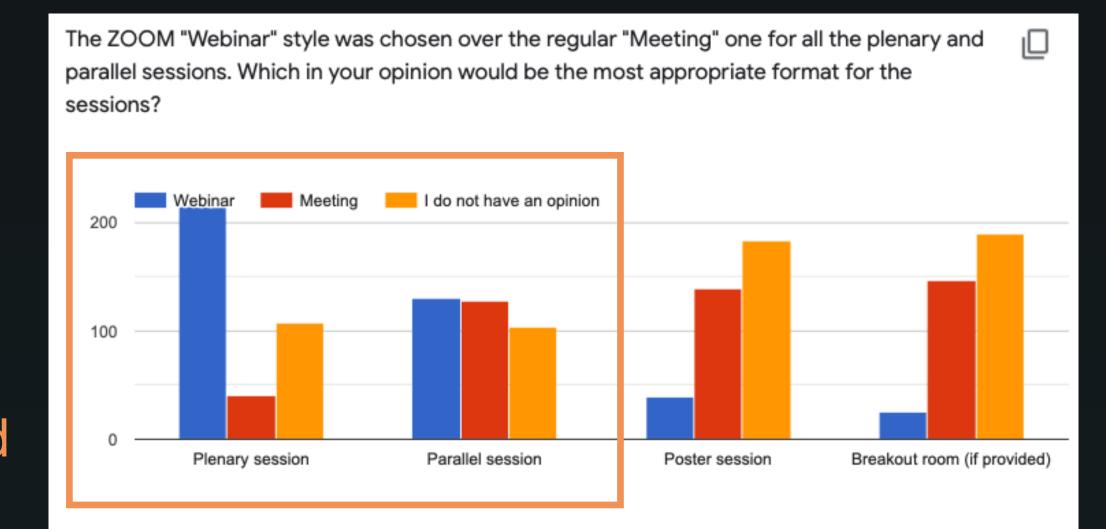
# **Technical set-up - reflections**

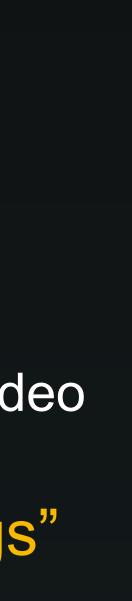
The technical set-up (ZOOM) works very well! for the slides sharing, integration of close captioning, webcast retransmission

For this first very large fully online conference ZOOM "Webinars" were chosen for plenary and parallel sessions to control access, to avoid "gatecrashing", to avoid that participants by accident unmute/broadcast video This has reduced the sense of community that is an important part of in-person conferences  $\rightarrow$  for the next event (LHCP 2021) we will move to the ZOOM "Meetings"



Roberto Salerno





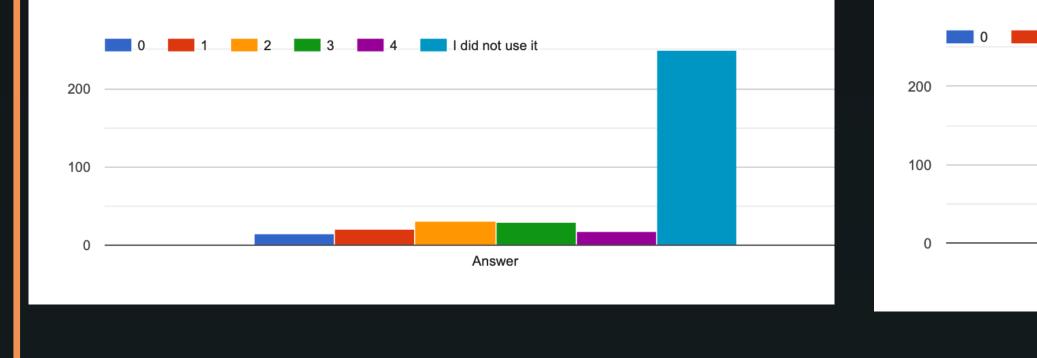


# "Virtual" coffee breaks

were adopted

- on the Discord online server : a more general "coffee-and-tea" room was created
- session, in a Zoom meeting room ("breakout room")

To recreate the feeling of community that is lost with the ZOOM "Webinar" style, dedicated Discord channels were created for the parallel sessions, where the participants could have commented on the session or even just say "hello". How satisfied were you with it? (O=not at all satisfied, 4=completely satisfied)



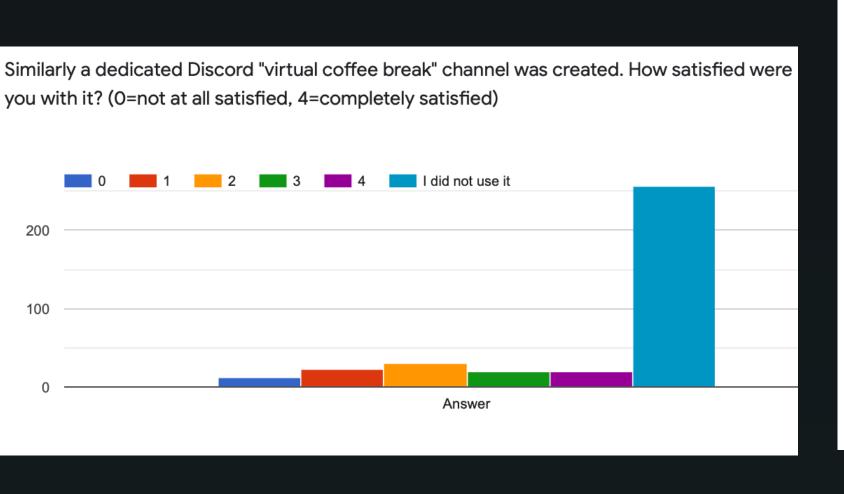




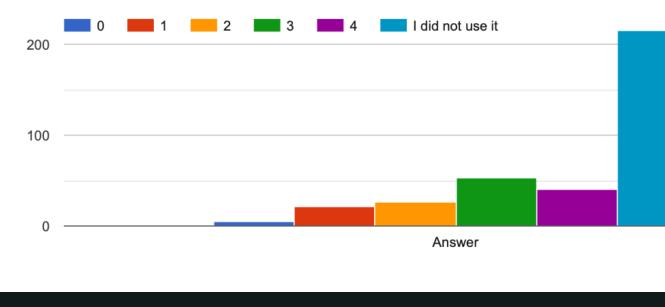
## To recreate these possibilities in the online conference experience, various solutions

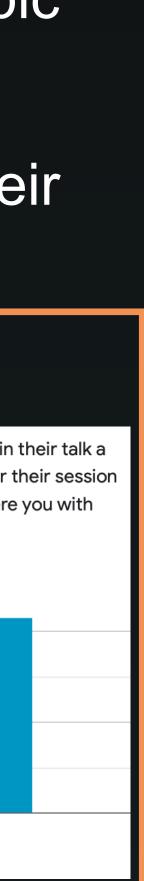
# • on the Discord online server : various virtual rooms were created, one for each parallel topic • It was suggested to the speakers, on a voluntary basis, to be available, after the end of their

## Post-conference survey results



We suggested to all the speakers, on a voluntary basis, to create and advertise in their talk a ZOOM meeting room (a "breakout room") for discussions with participants after their session (similarly to what might happen in an in-person coffee break). How satisfied were you with this option? (0=not at all satisfied, 4=completely satisfied)



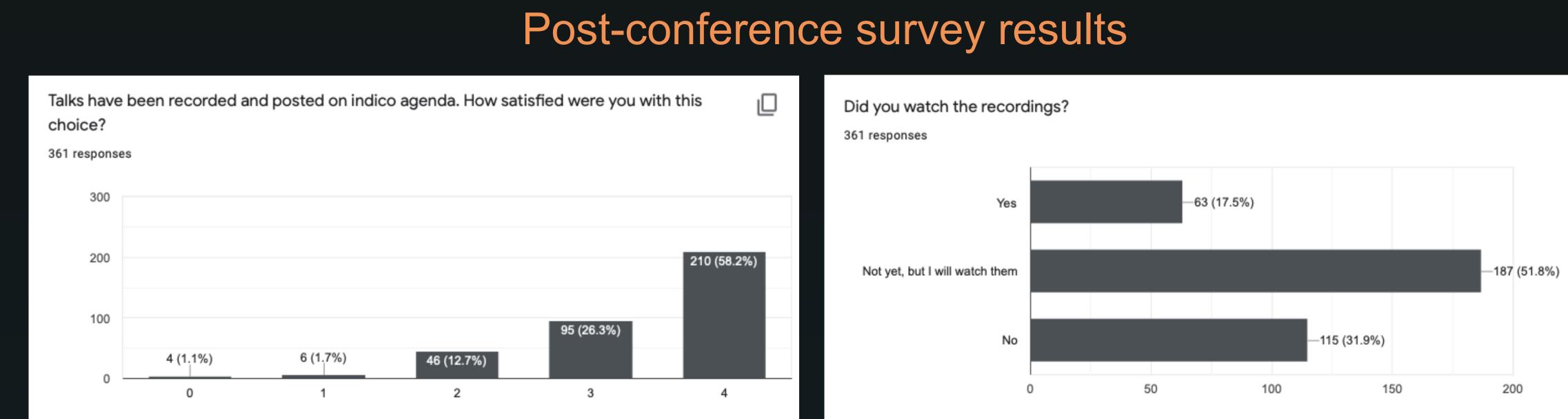




# **Recordings and transcriptions**

Talks were recorded (we asked the standard CERN consent to all the speakers) and posted on CDS

Most of the plenary sessions and few selected parallel sessions were captioned, for the other sessions off-line captioning of all the talks were provided with Otter.ai ~40 automatic transcriptions were edited in post-production by volunteered participants and provided to CERN IT department that did a consultancy with Machine Learning and Language Processing research group (link) to prepare a tender for an Automated Speech Recognition system for HEP



## Roberto Salerno



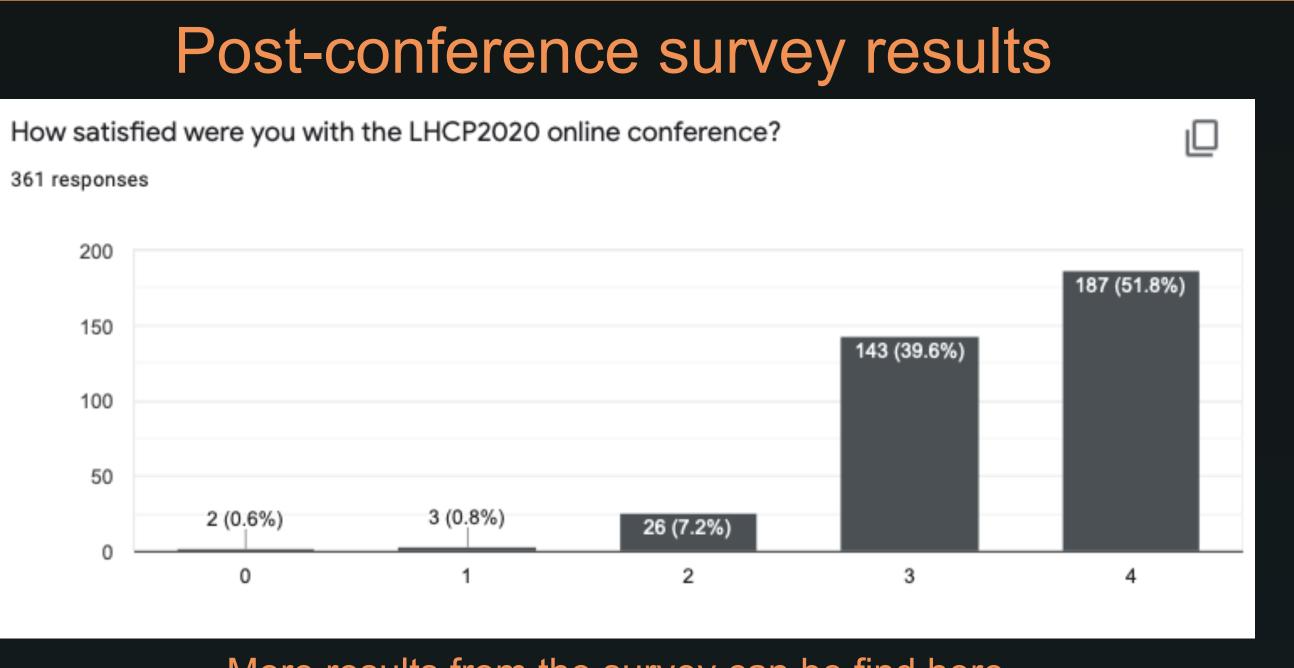




# **Conclusions**

LHCP 2020, originally scheduled to be held in Paris, was held as a fully online conference from 25-30 May 2020.

and more diverse numbers than before !



More results from the survey can be find <u>here</u>

Roberto Salerno

Virtual Meeting on Virtual Meetings workshop, 5-6 May 2021

- Waiving of the registration fee allowed us to bring the LHC community together, in larger
- Overall, it was very well-received, with positive feedback from surveyed participants !

## ... and LHCP 2021 will be online from 7-12 June 2021



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