

# QCrypt 2021 business meeting

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## Agenda

- 2021 local committee report [Chris & Serge] (10 mins)
- 2021 program committee report [Carl & Tobias] (10 mins)
- 2022 presentation [2022 LC] (10 mins)
- 2023 solicitation of proposals [chair] (1 min)
- Questions/discussions [chair] (5-10 mins)
- **2021 Best Student Paper Prize: Carl & Tobias (10 mins)**

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Christoph Marquardt  
Max Planck Institute for the Science  
of Light



SC chair



Gorjan Alagic  
University of Maryland



SC co-chair



Akihisa Tomita  
Hokkaido University



SC member



Serge Fehr  
CWI Cryptology group, Leiden  
University



SC member



Feihu Xu  
University of Science and  
Technology of China



SC member



Stacey Jeffery  
CWI



SC member



Hugo Zbinden  
University of Geneva



SC member



Marco Lucamarini  
University of York



SC member

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## Hosting QCrypt 2023!

If you are interested, please send a letter of intent to [qcrypt-steer@googlegroups.com](mailto:qcrypt-steer@googlegroups.com)

by Nov. 1, 2021, with the following information:

1. Name and affiliation of main organizer
2. Possibilities of conference dates (preferably in late August 2023)
3. Location and size of intended conference venue
4. Contingency for fully or partially virtual event

The steering committee will ask the top contenders to work out a full proposal.

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11th International Conference on Quantum Cryptography

The background of the logo features a stylized cityscape with colorful buildings in shades of blue, yellow, green, purple, and red. In the center, a green windmill with four blades is positioned behind the text. The text 'QCRYPT' is rendered in a large, bold, blue font with a white outline, and '2021' is in a smaller, blue font with a white outline. The entire logo is set against a dark grey background.

QCRYPT  
2021

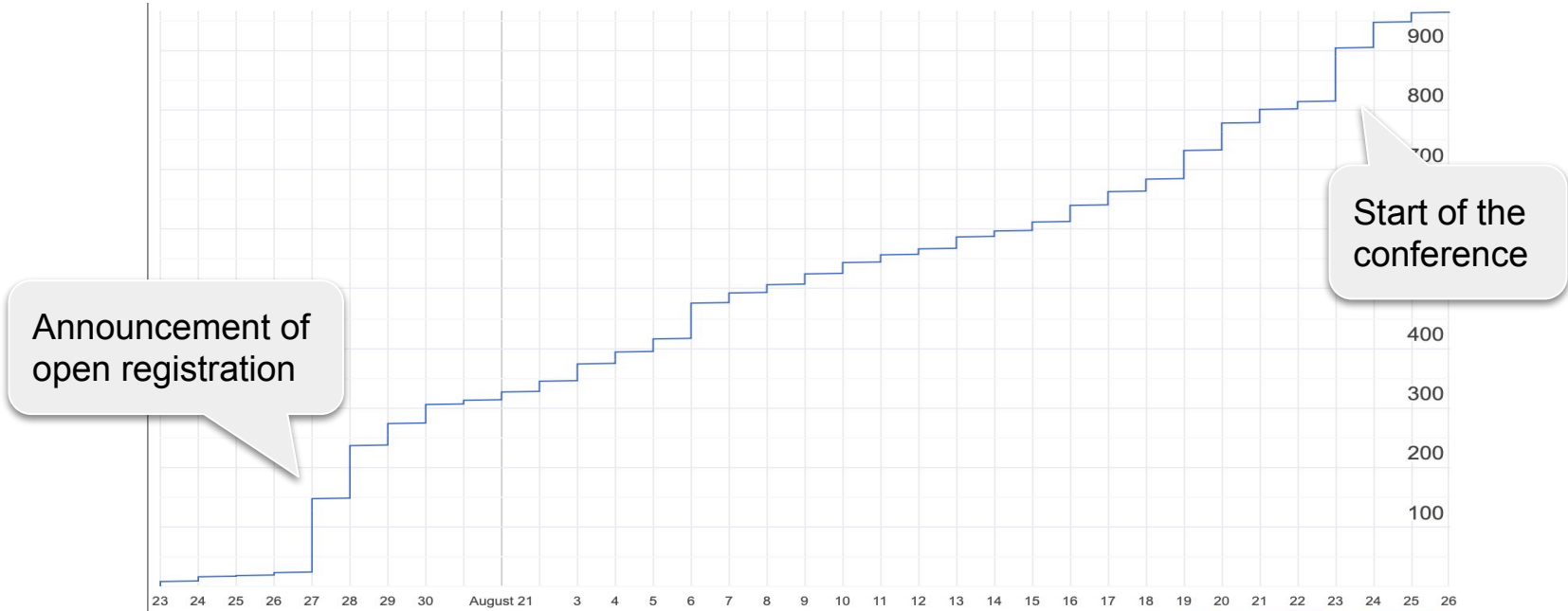
online conference

23-27 August 2021

# Registrations

Number of registrations:

~1000

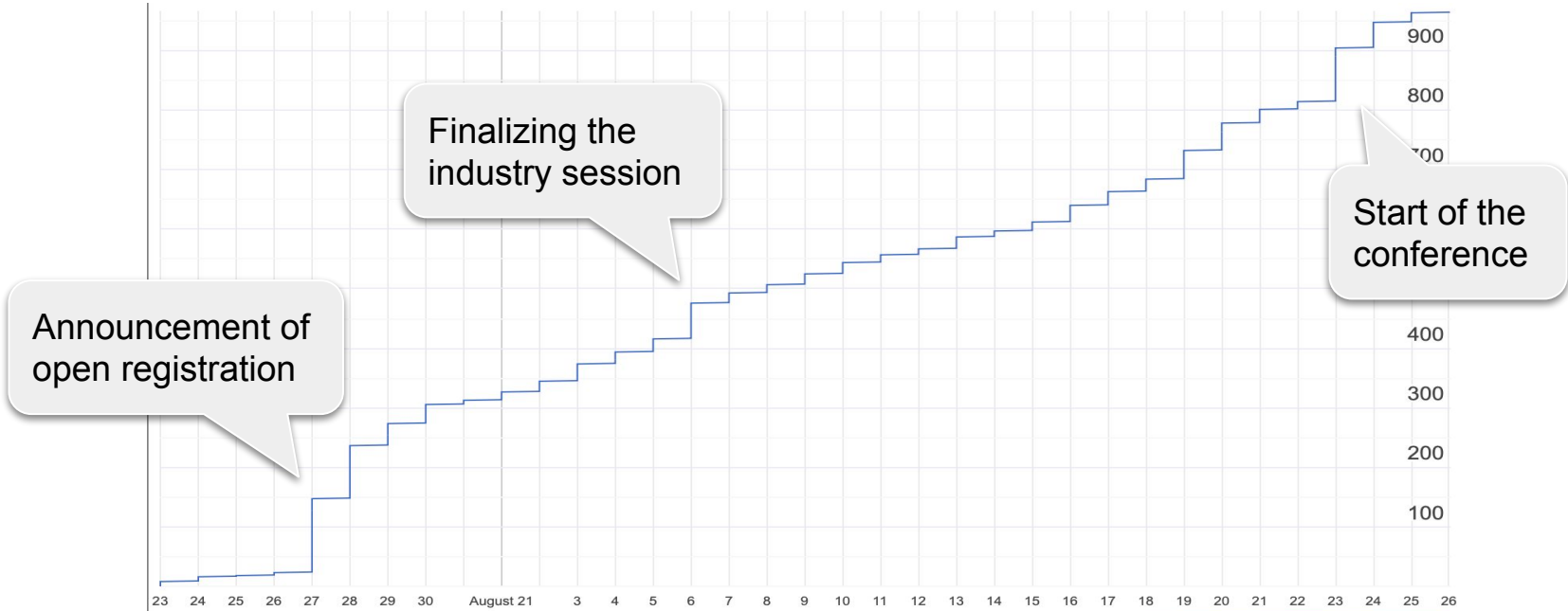




# Registrations

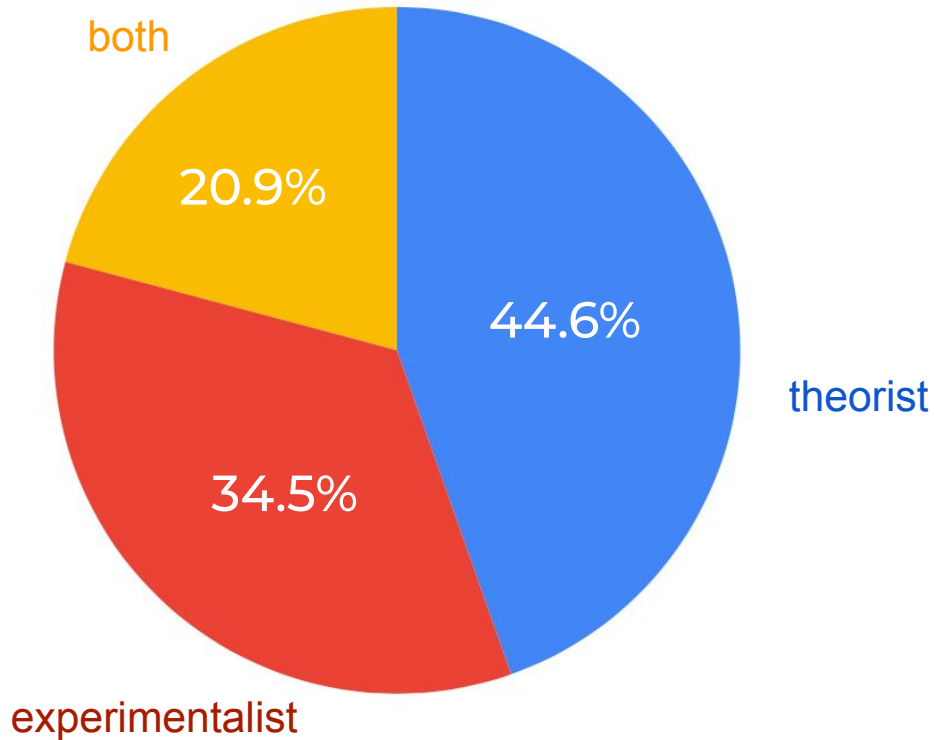
Number of registrations:

~1000



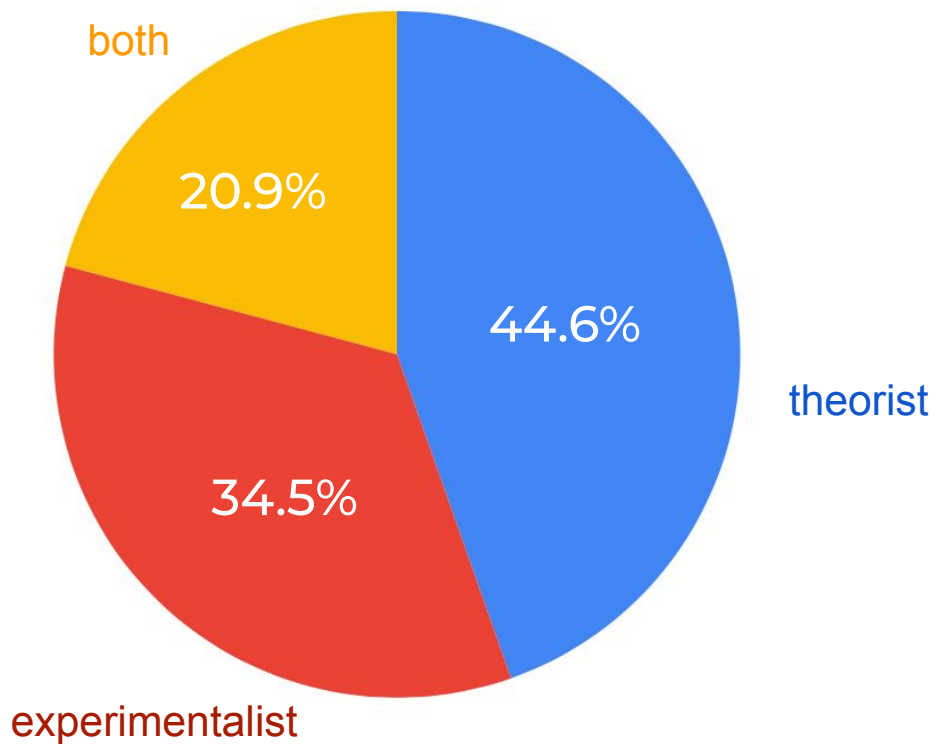
# You consider yourself a ...

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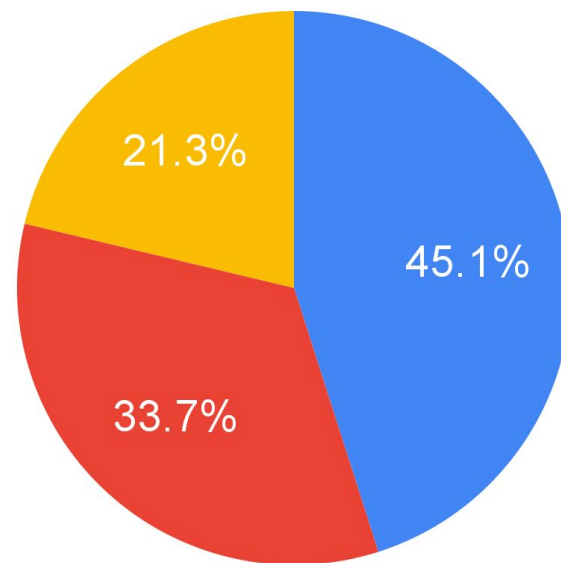


# You consider yourself a ...

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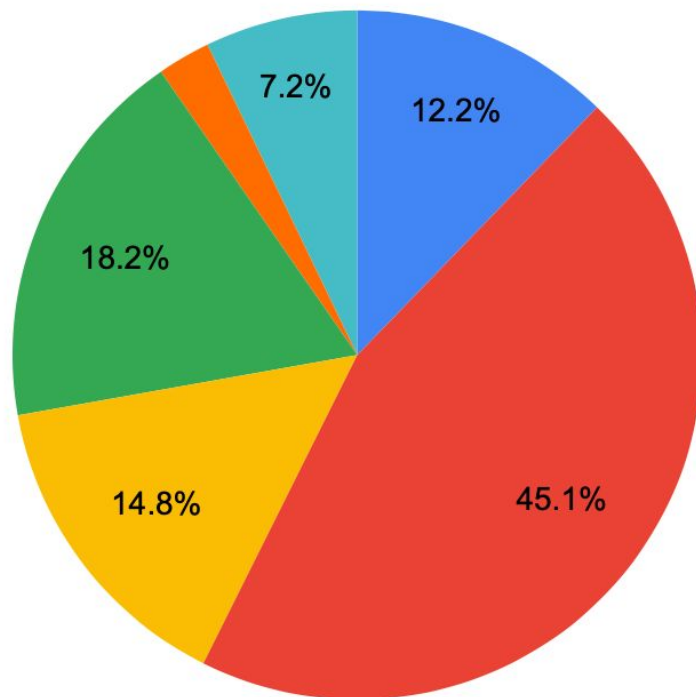


Status on Monday



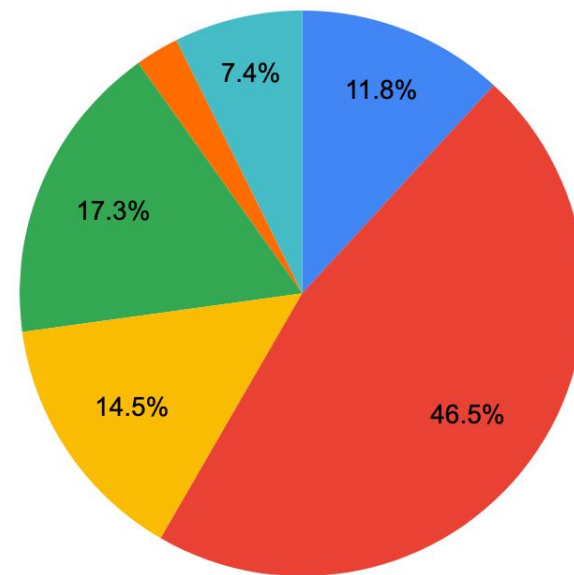
# Current Position

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- PostDoc
- Student
- Faculty
- Industry
- Government
- Other

## Status on Monday



# Finances, 2020 and 2021



## Income:

- Sponsors: circa 50k EUR, mix of 2020 and 2021
- Surplus QCrypt 2019: 30k EUR

## Expenses:

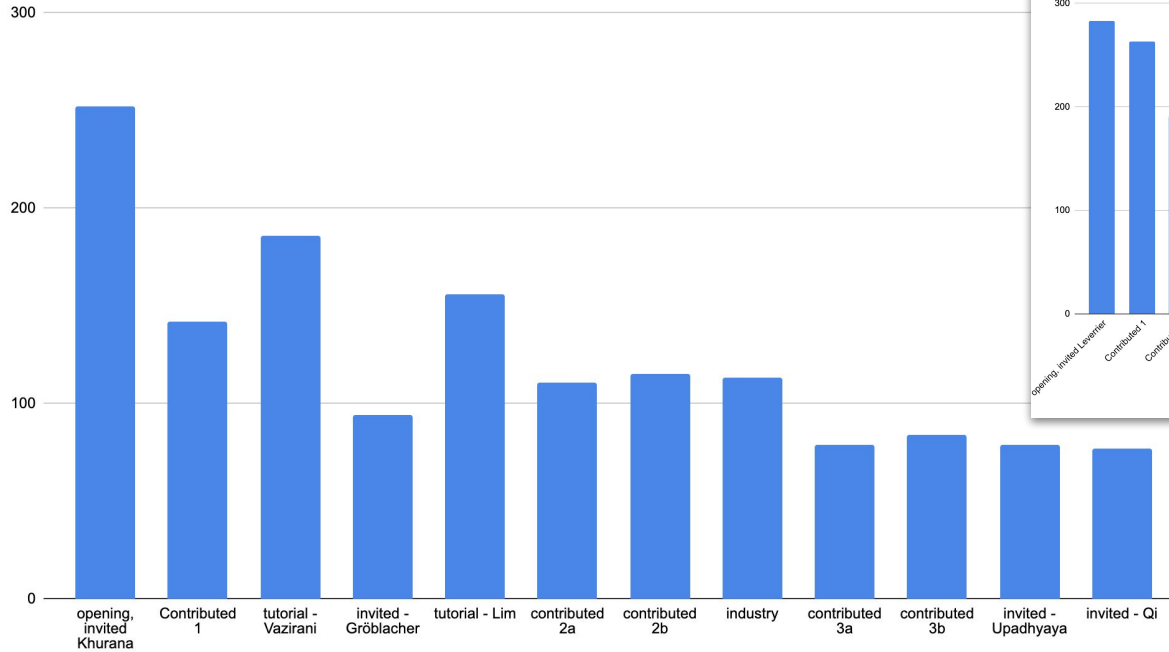
- UvA congress office: combined with last year
- Remo.co (2020): 850 EUR
- Meetanyway.com (2021): ~25k EUR



# Zoom participants per session



Zoom Participants per session



# Zoom attendee reports

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For every session of the webinar, zoom records

- First name
- Last name
- Email
- Registration Time
- Join Time
- Leave Time
- Time in Session
- Country/Region Name

# Connecting from China

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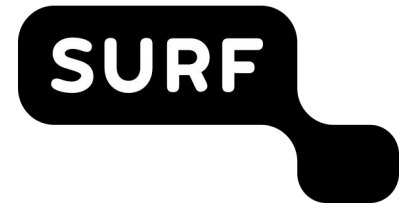
Difficult to access:

- YouTube
- GoogleForms
- Meetanyway.com



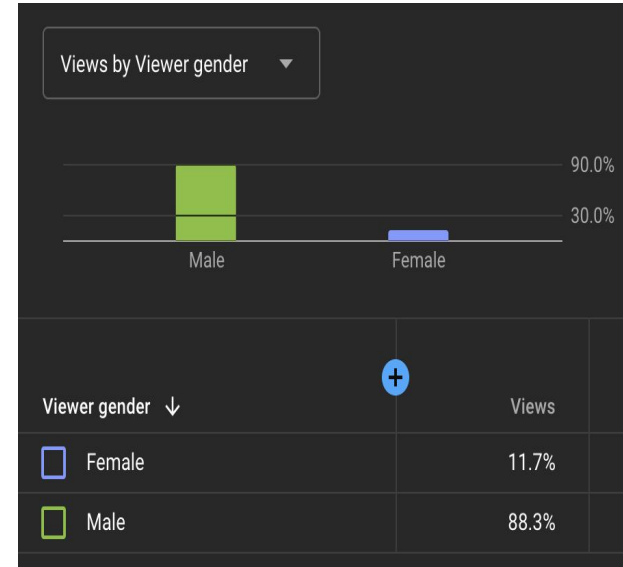
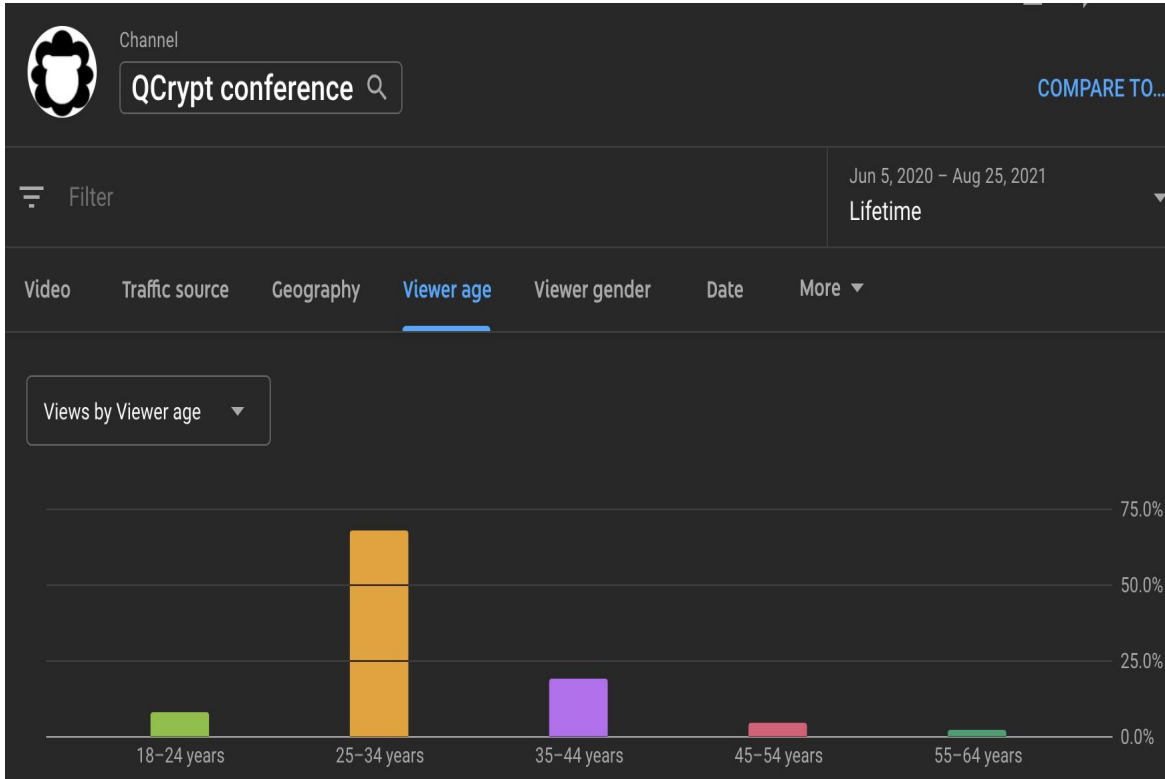
Talks, posters and slides can be downloaded from:

- SurfDrive:  
<https://surfdrive.surf.nl/files/index.php/s/GVXUIIThzcWkd9W>





# YouTube stats



# <https://2021.qcrypt.net>

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- JAM stack: JavaScript, API, Markup
- Hugo: static-website generator
- Netlify: Serverless hosting on open-source plan
- templates from the Kubernetes Community
- <https://github.com/QCrypt/website-2021>
- Old QCrypt websites: <https://qcrypt.github.io/>

The logo for QCRYPT 2021. 'QCRYPT' is in a blue, rounded, sans-serif font. '2021' is in a blue, stylized font where the zeros are connected to the ones.The JAMSTACK logo. 'JAMSTACK' is in a grey, sans-serif font. Below it are four hexagons: a pink one with 'H', a blue one with 'U', a green one with 'G', and a yellow one with 'O'.The DevFest Toulouse 2019 logo. It features a colorful, stylized 'D' shape on the left, followed by the text 'DevFest Toulouse 2019' in a white, sans-serif font.

# Thanks to the Team

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Caitlin Boonstra  
ILLC, University of Amsterdam



registration updates



Jelle Don  
CWI Cryptology Group



support



Yfke Dulek  
CWI, QuSoft



support / website



Alex Grilo  
CNRS/Sorbonne Université



social media



Melanie Haije  
University of Amsterdam



Congress Office



Esteban Landerreche



design



Mehrdad Tahmasbi  
CWI, QuSoft



support



Peter van Ormondt  
ILLC, University of Amsterdam



registration form



Wessel van Woerden  
CWI Cryptology Group



support

# Thanks to Serge

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CWI  
Cryptography Group  
&  
Leiden University



University of Amsterdam  
ILLC  
&  
QuSoft

# Thanks to Serge ... and Chris

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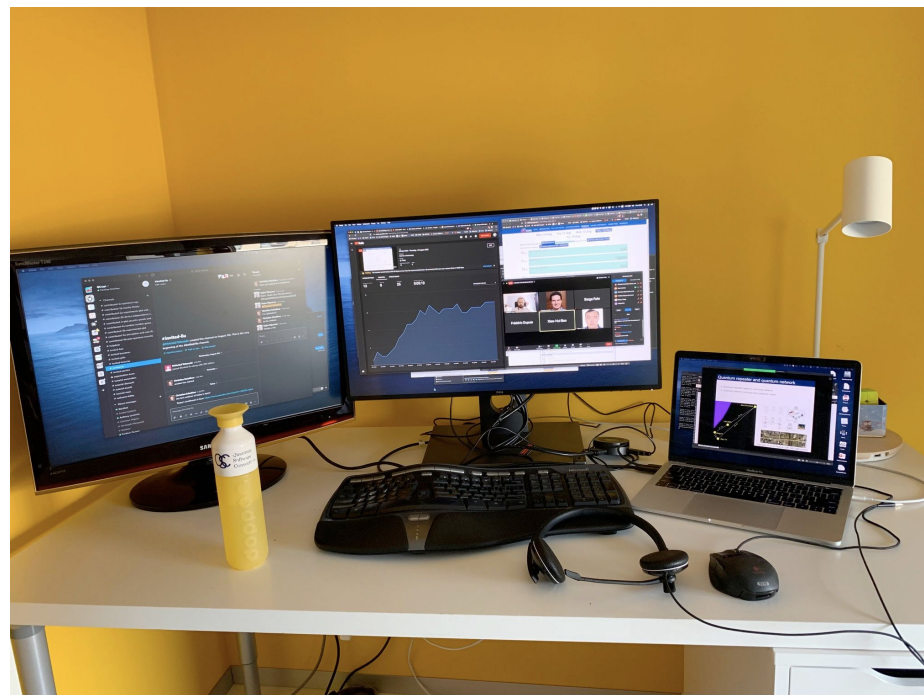
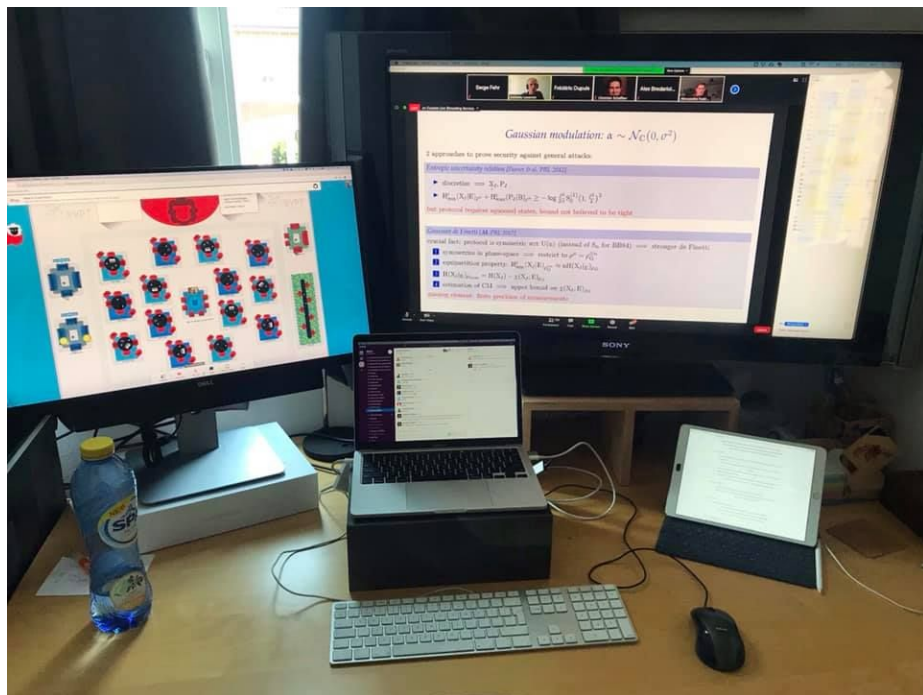


CWI  
Cryptography Group  
&  
Leiden University



University of Amsterdam  
ILLC  
&  
QuSoft

# Home office impressions



# QCrypt 2021 central command

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# Report from the Program Committee

Carl A. Miller (QuICS, NIST), chair  
Tobias Gehring (DTU), co-chair

QCRYPT 2021



# Early Decisions

- Extra-large committee.
- Software: HotCRP instead of EasyChair.  
(<https://qcrypt2021.quics.umd.edu>)
- Call For Papers said: “Research on classical post-quantum cryptography is considered to be within scope if it makes innovative use of quantum information concepts.”

# Program Committee Members

Andrea Coladangelo (University of California, Berkeley)

Andreas Hulsing (Eindhoven University of Technology)

Andreas Poppe (Austrian Institute of Technology)

Anne Broadbent (University of Ottawa)

Antonio Acin (ICFO)

Carl Miller (NIST and University of Maryland)

Charles Ci-Wen Lim (National University of Singapore)

Daniel J. Gauthier (Ohio State University)

Davide Bacco (Technical University of Denmark)

Elham Kashefi (University of Edinburgh and CNRS LIP6  
Sorbonne Universite)

Erika Andersson (Heriot-Watt University)

Florian Speelman (QuSoft and University of Amsterdam)

George Kanellos (University of Bristol)

Giuseppe Vallone (University of Padova)

Ivo Pietro Degiovanni (INRIM Istituto Nazionale di Ricerca  
Metrologica)

Jamie Sikora (Virginia Tech)

Marco Tomamichel (National University of Singapore)

Nino Walenta (Fraunhofer Heinrich Hertz Institute Berlin)

Paolo Villoresi (University of Padova)

Roger Colbeck (University of York)

Romain Alleaume (Telecom Paris)

Rotem Arnon-Friedman (Weizmann Institute of Science)

Rupesh Kumar (University of York)

Sean Hallgren (Penn State University)

Thomas Jennewein (University of Waterloo)

Tobias Gehring (Technical University of Denmark)

Veronica Fernandez (Spanish National Research Council (CSIC))

Virginia D'Auria (Institut de Physique de Nice)

Vladyslav Usenko (Palacky University, Olomouc)

Xiongfeng Ma (Tsinghua University)

Yanbao Zhang (NTT Basic Research Lab)

Yfke Dulek (QuSoft and CWI Amsterdam)

Yuan Cao (University of Science and Technology of China)

Yury Kurochkin (Russian Quantum Center)

Zhiliang Yuan (Beijing Academy of Quant. Info. Sci.)

Zvika Brakerski (Weizmann Institute of Science)

# The Process

- We received 137 talk submissions (versus ~100 in a typical year). 80 were marked as “Theory” and 44 as “Experiment.” (Some were both or neither.)
- After that we had:
  1. Review period (4 weeks)
  2. Discussion period (2 weeks)
  3. Vote (1 week)(About two-thirds of acceptances were at stage 2; the rest were at stage 3.)

# The Process

- We accepted 29 talks, including 2 merges. Acceptance rate 23%.
  - 15 experimental talks (loosely defined)
  - 14 theoretical talks
- We accepted 141 posters. Acceptance rate 100%.
- Student Paper Prize:
  - The PC selected 5 finalists.
  - The SC and the PC chairs then chose 2 winners.

*(Coming up ...)*

# Thanks to our subreviewers!

Alex Bredariol Grilo  
Alexander Duplinsky  
Alexander Poremba  
Anand Natarajan  
André Chailloux  
Andreas Winter  
Andrey Tayduganov  
Andru Gheorghiu  
Anran Jin  
Anthony Leverrier  
Anurag Anshu  
Arthur Mehta  
Bo Li  
Christian Majenz  
Dakshita Khurana  
David Elkouss  
Dmitry Kronberg  
Elie Wolfe  
Eric Culf  
Ernest Tan  
Evgeny Kiktenko

Fang Song  
Felix Leditzky  
Fermi Ma  
Frédéric Dupuis  
Frederic Grosshans  
Gabriel Molina-Terriza  
Gabriel Senno  
George Nikolopoulos  
Giacomo De Palma  
Giulio Malavolta  
Gláucia Murta  
Guoding Liu  
Harold Ollivier  
Honghao Fu  
James Bartusek  
Jana Sotáková  
Janis Nötzel  
Jian-Yu Guan  
Josep Lumbreras  
Joseph Renes  
Kai-Min Chung

Kaushik Chakraborty  
Kiyoshi Tamaki  
Koon Tong Goh  
Marc-Olivier Renou  
Mario Berta  
Masahito Hayashi  
Máté Farkas  
Matthew McKague  
Matty Hoban  
Navneeth Ramakrishnan  
Nir Bitansky  
Obada Alia  
Omri Shmueli  
Pei Zeng  
Peter Brown  
Peter Yuen  
Prabhanjan Ananth  
Qipeng Liu  
Quoc Huy Vu  
Rabib Islam  
Renato Renner

Roberto Rubboli  
Rui Wang  
Sébastien Lord  
Srijita Kundu  
Stacey Jeffery  
Stefan Baeuml  
Supartha Podder  
Theodoros Kapourniotis  
Thomas Vidick  
Tom Van Himbeeck  
Vadim Rodimin  
Valerio Scarani  
Víctor Zapatero  
Xingjian Zhang  
Yingkai Ouyang  
Yizhi Huang  
Yu-Huai Li  
Zhenhuan Liu

QCRYPT 2022 (8/29-9/2)

BO-YIN YANG / KAI-MIN CHUNG

**at Academia Sinica, Taipei, Taiwan**



# TAIWAN IS A NICE PLACE



*Tall mountains, green fields, hot springs,  
lovely beaches. Great food, nice people.*

**Not much COVID-19. (Oh yes, Taiwan Beer!)**

Pix: 101, Alishan, Taroko Gorge, Ching-Sui cliffs


# VENUE: OUR HUMANITIES AND SOCIAL SCIENCES BUILDING





# GETTING INTO TAIWAN ... AND STAYING IN TAIPEI

- > Visa-free entry 15+days available (if without COVID-19) to many countries:  
Academia Sinica handles invitations and visas well for those remaining;  
**Visa assistance details as the time gets closer -- we are experienced;**
- > Flights are numerous and convenient and TPE easily accessible by train
- > Negotiating for reserved rooms in Academia Sinica Academic Activities Center and nearby hotels:  
Shuttles from/to off-campus hotels in the morning/evening;  
Average price is likely ~ US\$100 (including breakfast and wifi!);
- > You are free to try AirBnB etc. they have many rooms in Taipei
- > Mass Transport cheap and plentiful



# WHEN THINGS GO WRONG -- A HYBRID OR VIRTUAL QCRYPT

A Virtual Event is today's new Norm

Our venue cost us \$0 to cancel

We plan to set up a local meetings server anyway (Jitsi/BigBlueButton)

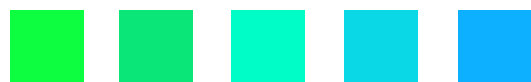
We won't have much income but a lot of expenses are invited speakers and that goes away as well

A Hybrid Event is really a virtual event with some local attendees

HSSB (Our Venue) is well decked out in terms of sound+video equipment and connectivity

Main Conference Room at  $\frac{1}{4}$  capacity (social distancing) holds 100

We plan constant monitoring of the virtual meeting room for questions



# LOOKING FORWARD TO WELCOMING YOU IN TAIWAN FOR QCRYPT 2022

Hope to see you all then and there!  
Bo-Yin & Kai-Min



# Student Paper Prizes

Carl A. Miller (QuICS, NIST), chair  
Tobias Gehring (DTU), co-chair

QCRYPT 2021

**QCRYPT**  
**2021**

**Best**  
**Student Paper**

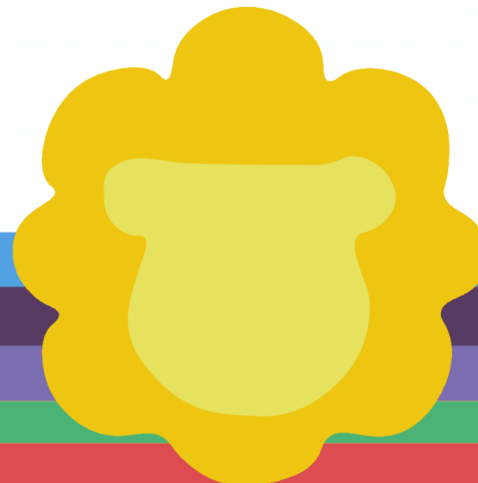
# High-rate quantum key distribution with silicon photonics

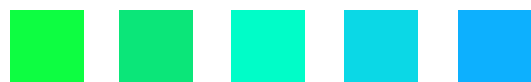
Likang Zhang

Co-authors Wei Li; Hao Tan, Yan-Lin Tang, Kejin Wei, Sheng-Kai Liao, Cheng-Zhi Peng, Feihu Xu & Jian-Wei Pan

**Issued By**  
Christoph Marquardt  
Steering Committee Chair

**Issued By**  
Carl Miller  
Program Committee Chair





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**QCRYPT**  
**2021**

**Best**  
**Student Paper**

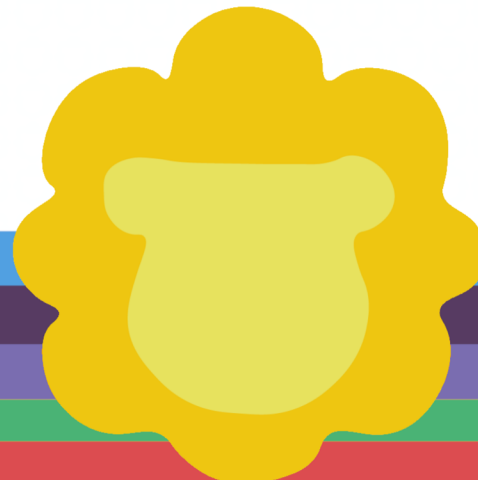
# **Device-independent protocols from computational assumptions**

**Tony Metger**

**Co-authors** Yfke Dulek, Andrea Coladangelo, Rotem Arnon-Friedman & Thomas Vidick

**Issued By**  
Christoph Marquardt  
Steering Committee Chair

**Issued By**  
Carl Miller  
Program Committee Chair



# Finalists

## **#106: Finite-size DIQKD with noisy preprocessing and random key measurements**

Ernest Y.-Z. Tan, Xavier Valcarce, Pavel Sekatski, Jean-Daniel Bancal, Rene Schwonnek, Renato Renner, Nicolas Sangouard, Charles C.-W. Lim

## **#109: Drone-Based Quantum Key Distribution (QKD)**

Andrew Conrad, Samantha Isaac, Roderick Cochran, Daniel Sanchez-Rosales, Akash Gutha, Tahereh Rezaei, Brian Wilens, Daniel J. Gauthier, Paul Kwiat

## **#134: Quantum Private Broadcasting**

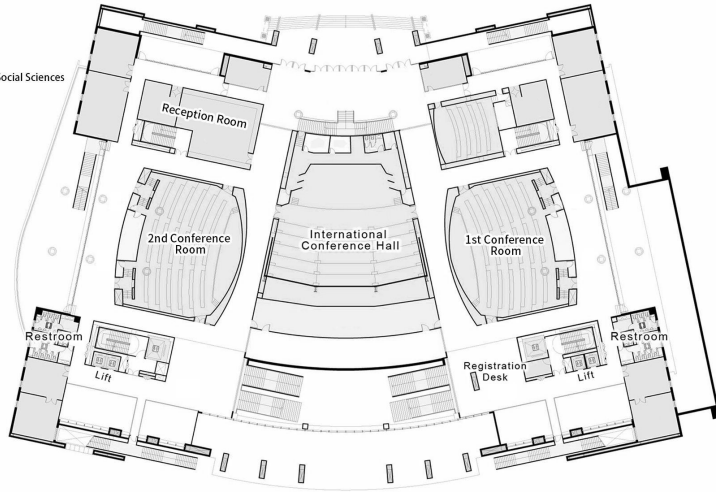
Anne Broadbent, Carlos E. Gonzalez-Guillen, Christine Schuknecht



# VENUE: PLENTY OF SPACE FOR EVERYTHING

## 3F

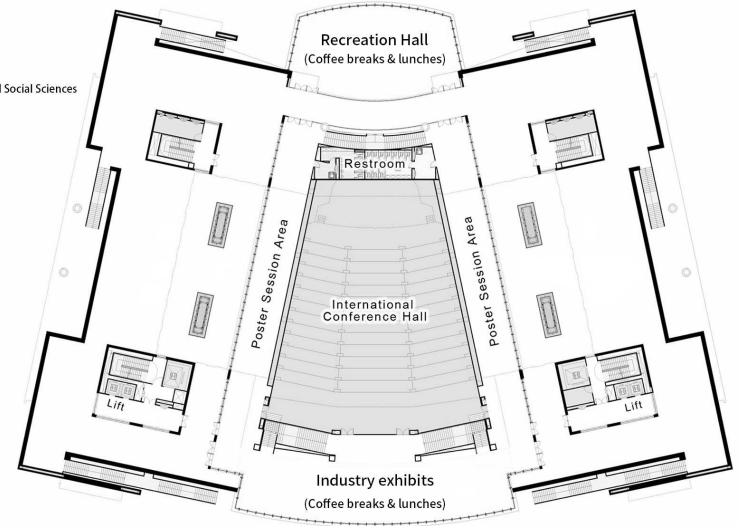
Building for Humanities and Social Sciences



> Includes a modern conference hall and subsidiary meeting rooms

## 4F

Building for Humanities and Social Sciences

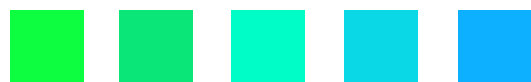


> Foyers are available for posters

# CALL FOR CONTRIBUTIONS

- > We expect:  
exciting technical program;
- > We need you:  
to work hard;  
produce new exciting results;  
submit them to QCrypt 2022;
- > We will also be looking for:  
sponsors;  
industry exhibitors;
- > Let us know if you are interested ([2022@qcrypt.net](mailto:2022@qcrypt.net))

```
+-----+  
|   Qcrypt   |  
+-----+  
|   2022     |  
+=====+  
|   12th     |  
+-----+  
|International|  
+-----+  
|   Conference |  
+-----+  
|   On        |  
+-----+  
|   Quantum   |  
+-----+  
|Cryptography|  
+-----+
```



# LOOKING FORWARD TO WELCOMING YOU IN TAIWAN FOR QCRYPT 2022

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