Welcome!

from the *local organisers*

Tancredi
Carli

Dawn
Hudson

Alexander
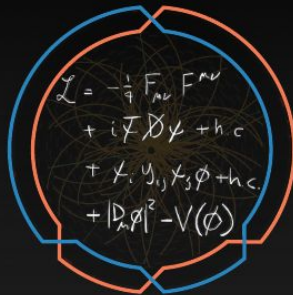Huss

Connie
Potter

Workshop Format & Agenda*   cern.ch/smlhc2022

Hybrid format: both *in-person* (~50) as well as *on-line* (~150) participation

- Zoom connections details [here] (*passcode: registered participants & logged in*)
- First time for us to organise in this format
- Please provide us with feedback and suggestions

Program focussed in the afternoon: **12:30 – 18:45** (<u>note</u>: *12:20 start on Thu!*)

- Recommended to go for early lunch (*R1 restaurant opens at 11:30*)
- Mornings free:
  - Catch other participants for discussions at e.g. R1, …
  - Follow discussions on previous talks on mattermost (*next slide*)
  - Quiet place: library, …
  - Visit CERN colleagues, …

> **SM@LHC** promotes discussions on Standard Model physics at the LHC with a focus on *hot topics* and *interesting connections* between Standard Model subfields.
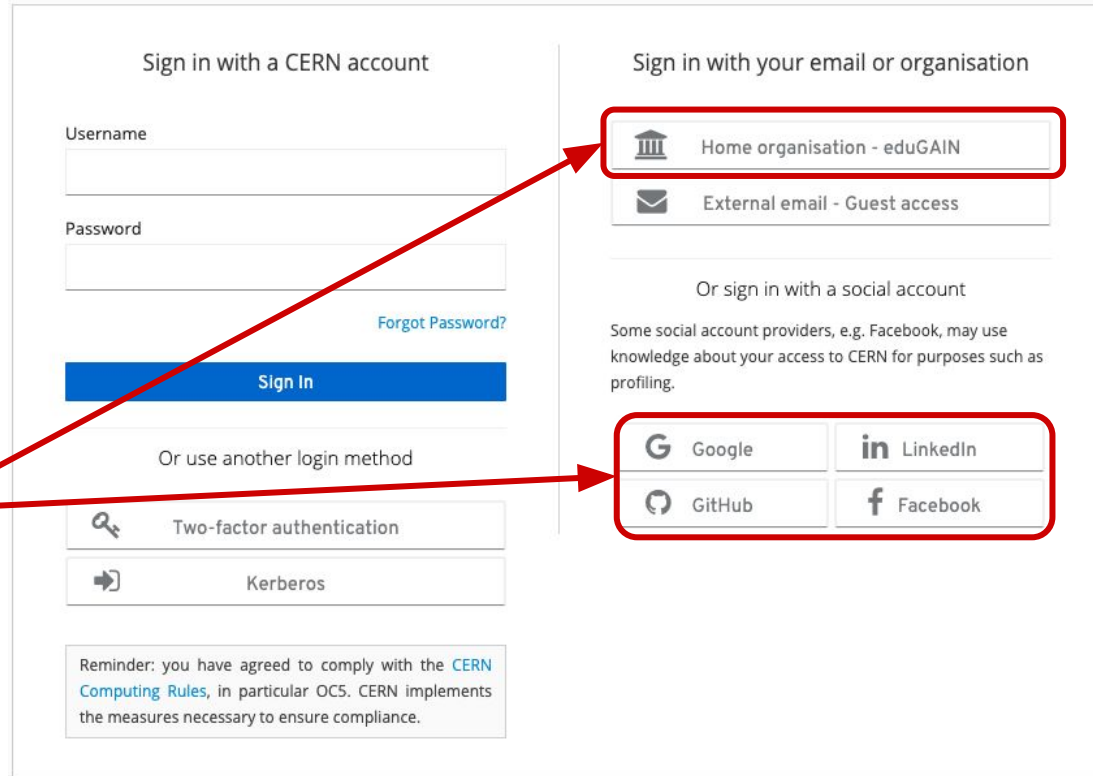
* all times in CET

![Mattermost]

We will use the mattermost channel:

DISCUSSIONS *("town-square")*

at mattermost.web.cern.ch/smlhc2022
for discussions on the talks.

(do not use the zoom chat!)

- Registration link here
- Can use your own institution login
  or social media accounts

Sign in with a CERN account

Username

Password

Forgot Password?

Sign In

Or use another login method

Q̣ Two-factor authentication

➲ Kerberos

Reminder: you have agreed to comply with the CERN Computing Rules, in particular OC5. CERN implements the measures necessary to ensure compliance.

Sign in with your email or organisation

🏛 Home organisation - eduGAIN

✉ External email - Guest access

Or sign in with a social account

Some social account providers, e.g. Facebook, may use knowledge about your access to CERN for purposes such as profiling.

G Google   in LinkedIn

◯ GitHub   f Facebook

Please ask questions and contribute to the discussion after talks:
- Start your post with "*<title of the talk>:* " followed by the question/comment
- When answering/commenting on a specific post, please use the "*reply to*" option that appears on the top right of the post after hovering with the mouse.

Important Notes to *Speakers*

- Upload your slides **at least ONE DAY in advance**
  (helps a lot in having focussed discussions!)

- Everything should be set up but please make sure that:
  the slide upload on indico works, you can connect to mattermost, …
  Note: go to your contribution to find the upload button
  (in case of problems, contact: [Alex|Tancredi] *or the session chairs)*

- The talks *(but not the Q&A)* are recorded and will be uploaded on indico
  (in case you have not done yet, please sign the release form)

- **Please keep the time!**
  (tight schedule; do not want to compromise on coffee break discussions)

- Connect to the mattermost channel *after your talk*
  (answer questions there was no time for, follow up on discussions, …)

- *For remote speakers:* please connect 5–10 min before your session to zoom to test
  the *screen sharing & audio* with the session chairs.

Conveners and Session Chairs

Big thanks to all conveners for coming up with an exciting program!

- Each session will be co-chaired by two conveners:
  - *in-person*:
    moderate & take questions from the auditorium
  - *on-line*:
    monitor mattermost for questions
    & responsible for checking zoom sharing
       with remote speakers in the break before
- Session chairs indicated as such on indico

QCD session

- Anna Kulesza (Theory)
- Francesco Giuli (ATLAS)
- Juan Pablo Fernandez (CMS)
- Lorenzo Sestini (LHCb)

EW session

- Stefan Dittmaier (Theory)
- Stefano Camarda (ATLAS)
- Paolo Azzurri (CMS)
- Will Barter (LHCb)

Top session

- Malgorzata Worek (Theory)
- Maria Moreno Lacer (ATLAS)
- Enrique Palencia (CMS)

Higgs session

- Michael Spannowsky (Theory)
- Karsten Köneke (ATLAS)
- Maria Cepeda (CMS)

EFT session

- Jordy de Vries (Theory)
- Hannes Mildner (ATLAS)
- Saptaparna Bhattacharya (CMS)

Heavy Flavour session

- Marzia Bordone (Theory)
- Alexis Pompili (CMS)
- Paula Alvarez (LHCb)

Young Scientists Forum — Tuesday 17:30

Time	Talk
17:30	**YSF** - Ayres Freitas Juan Alcaraz Maestre (Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT, Madrid)) (until 18:50) (500/1-001 - Main Auditorium)
17:35	Mixed QCD-electroweak corrections to Higgs plus jet production at the LHC - Mr Marco Bonetti (RWTH University) (500/1-001 - Main Auditorium)
17:45	Search for non-resonant Higgs bosons pairs production in the bbtautau final state at CMS - Jaime Leon Holgado (Centro de Investigaciones Energéticas Medioambientales y Tec. (ES)) (500/1-001 - Main Auditorium)
17:55	Observation of VBS production in opposite-sign WW events at CMS - Bianca Sofia Pinolini (Universita & INFN, Milano-Bicocca (IT)) Bianca Sofia Pinolini (500/1-001 - Main Auditorium)
18:05	Flavour Tagging with Jet Substructure - Simone Caletti (500/1-001 - Main Auditorium)
18:15	Differential cross-sections for $t\bar{t}j + X$ production at the LHC - Katharina Voss (University of Siegen (DE)) (500/1-001 - Main Auditorium)
18:25	The Drell-Yan q_T Spectrum and Its Uncertainty at N^3LL' - Johannes Michel (MIT CTP) (500/1-001 - Main Auditorium)
18:35	A search for the dimuon decay of the Standard Model Higgs boson in pp collisions at 13 TeV with the ATLAS Detector - Ye Chen (Hefei University of Science and Technology of China) Ye Chen (University of Science and Technology of China (CN)) (500/1-001 - Main Auditorium)

Platform for outstanding young scientists to promote their work and discuss their research findings in a series of short talks.

Prize for the most *clear* and *creative* presentation.

Selected by members of the international organising committee (IOC): *(you can provide input via e-mail)*
- Ayres Freitas <afreitas@pitt.edu>
- Juan Alcaraz <Juan.Alcaraz@cern.ch>

Winner will be announced before the first session on Thursday morning *(12:20)*!

Venue, Coffee Breaks, *Reception**

CERN map: venue
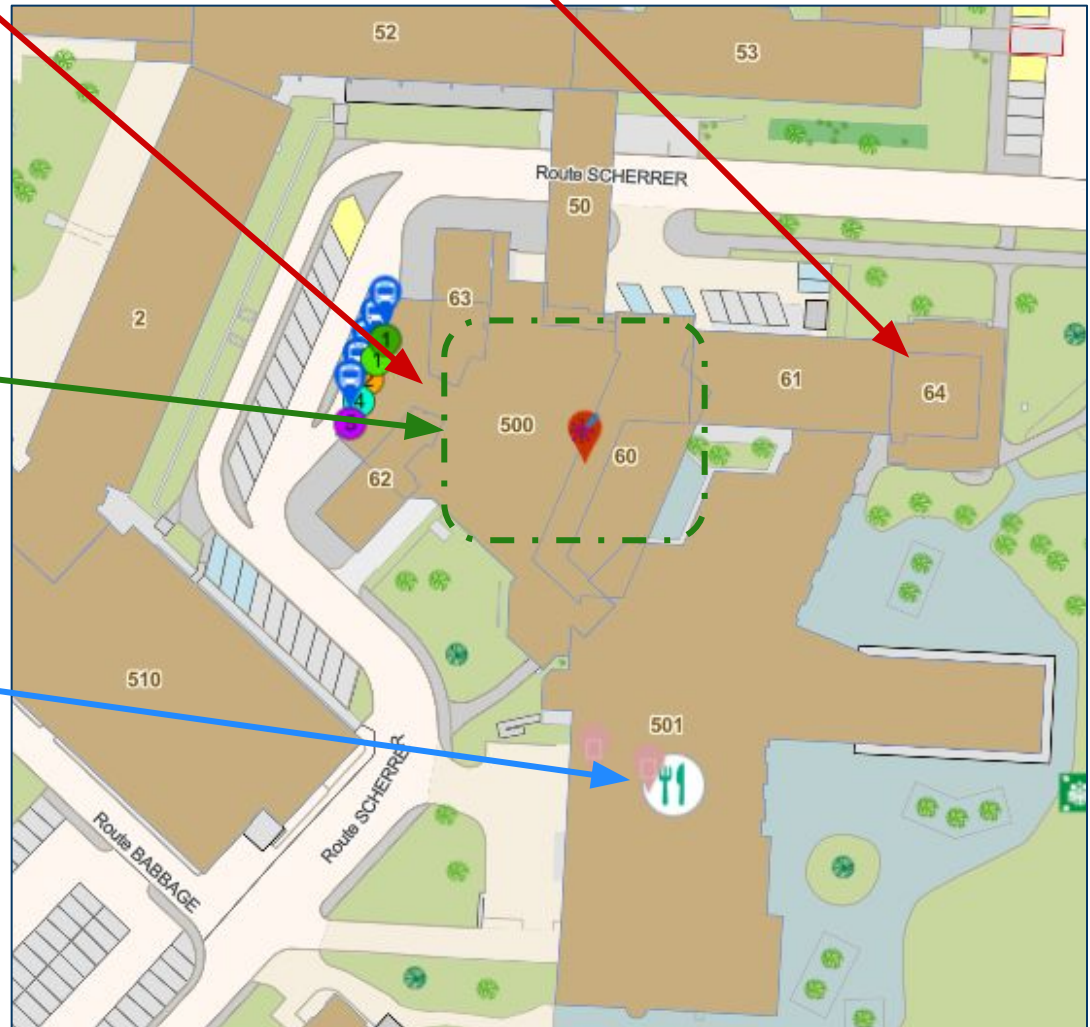**Room:** **Main auditorium** *(Mon, Tue, Thu)*; **Council chamber** *(Wed)*

Coffee breaks & **Reception** *(Mon 19:00)* on mezzanine in front of main auditorium

CERN Restaurant R1
Opening hours: *6:30–22:00*

We recommend early lunch 11:30-12:30 *(avoid queues)*
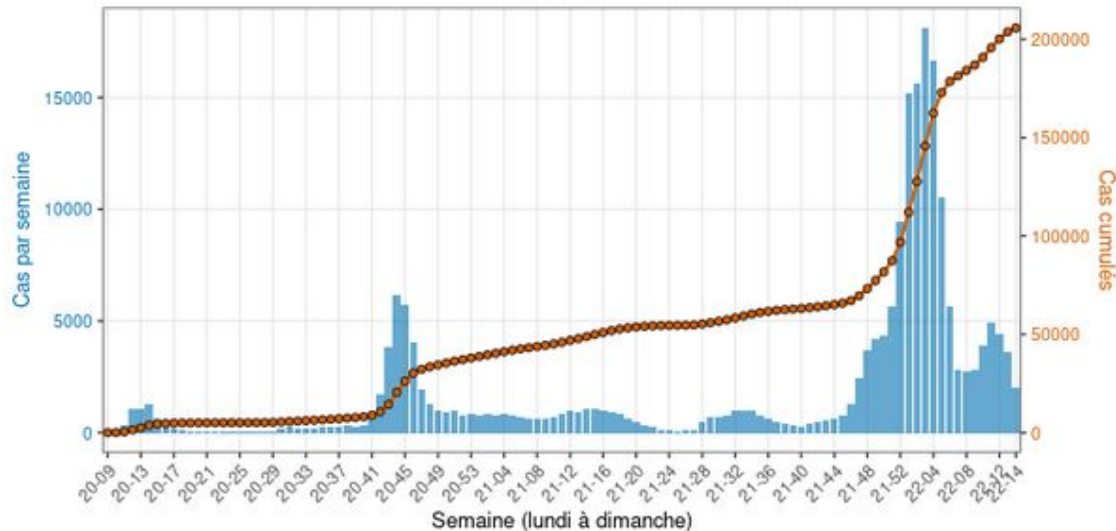

* plenty of food & drinks

COVID-19 at CERN

Geneva

Nouveaux cas par semaine
Pour la période du 26.02.2020 au 08.04.2022, canton de Genève.

The virus is still circulating!

- Please stay safe
  (keep distance, hand sanitisers, …)

- Half capacity in all meeting rooms:
  Respect seat configuration

- Masks not mandatory but please feel free to wear one for personal protection

Cases at CERN show similar trend as in Geneva.

CERN COVID information:
- COVID test can be booked via PLAMED
- If you have symptoms, declare yourself on TRAMED
- If you do not have a CERN account, contact COVID helpline *(& inform organisers)*

COVID measures in Switzerland and in France

Restaurants

CERN Restaurant R1 open until 22:00

Around CERN: *(walking distance)*   *Be aware of Swiss prices!*

Nirvana   Indian 4 min
Da Vinci   Take-away Pizza 11 min
La Meyrinoise   Traditional Italian restaurant 19 min
Luigia Academy   Modern Italian restaurant 25 min *(take gate C → 10 min)*
Champs Frechets Kebab Ugly location but decent food. Prefer take-away. Crowded. 28 min
Marifah Thaï   Thai food 20 min

Some options in Geneva: *(with public transport)*
Gazelle d'Or   African food, eat with hands only 24 min
Cave valaisanne   Traditional Swiss 31 min
Bains des Paquis   Fondue, Lake panorama, reservation only, take a jacket. 33 min
Vegan cafe   Excellent vegan food 35 min

For those not having their own plans, we can organize a dinner in small groups (Tue and/or Wed).
If interested, contact Alex and Tancredi.

Tripadvisor

Wi-Fi Network

Follow instructions on: https://information-technology.web.cern.ch/help/visitors

Use "CERN-Visitors" network or "eduroam" *(provided by your home institution)*

If you have CERN computing account, register your laptop http://cern.ch/register

Visitors

Your main priorities are network connection and printing.

Network connection for your laptop

Please connect your device to the "CERN-Visitors" Wi-Fi network.

You should be redirected to the "CERN Visitor Wi-Fi" registration portal. If not automatically redirected (as this is device dependant), open a web browser and you will see the registration portal.

Via this portal, without any registration, you will have access to a limited number of publicly available CERN websites ("Public Links"). To get a full internet access, agree with the CERN computing rules and register for Internet access by providing you email and a mobile phone number to which an access code will be sent by SMS. Once registered, you will be able to access remote web sites (http and https) and some other services (e-mail, VPN, SSH).

Note that this "CERN-Visitor" service is linked with the Wi-Fi Service Enhancement project, and may not be available in all buildings. More details can be found here (https://cern.ch/wifi-wise#Visitors).

If you have eduroam account provided by your home institute, you can use this network to gain connectivity. To get a full internet access, choose eduroam network, agree with the CERN computing rules and follow displayed instructions.

In some places, CERN-Visitors SSID is not yet available. In such areas (if you don't have eduroam account provided by your home institute), you can register your laptop and connect to the CERN network on a temporary basis.

We wish you a fruitful SM@LHC 2022 workshop!

Group of volunteers collecting aid for Ukraine.
Donation box at registration desk, more information at aidforall.ch

AidforAll

Back up