

**STRONG-2020**

**HORIZON 2020**

**TA7  
Transnational  
Access  
to CERN**

**ANNUAL MEETING (2024)  
LN FRASCATI (INFN)**

**David d'Enterria  
(CERN)**



*This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824093*

# CERN Transnational Access 2024

- The allocated funds for CERN TA provide per-diem funding to STRONG2020 members to access the lab for:
  - 1) **Beam-tests & irradiations at PS/GIF++/IRRAD/... facilities:** STRONG2020 Instrumentation WPs
  - 2) **Participation to preparation/runs of officially approved fixed-target experiments:** COMPASS, MUonE,...
  - 3) **Participation to STRONG2020 meetings, workshops, conferences on-site:** All WPs above, plus those related to both experimental & theoretical LHC activities.

- **2024 access call:** E-mail sent to all WPs asking for: (i) motivation, (ii) number of days, and (iii) number of people of each WP that needed access at CERN from Jan-July 2024.

- **8 WP requests received:**  
(compared to 11/8 WP requests in 2023/2022)

FT@LHC: 10 days (Gas Feed System calibration and upgrade)  
 NLOAccess: 60 days (support for 7 PhD students and 5 postdocs)  
 TMDNext: 5+8+6+20+30 = 69 days (CEDAR, COMPASS, PAW-24 workshop, EIC beam tests, COMPASS meetgs)  
 VA2 (3DPartons): 15 person-days (STRONG-2020 meetings, workshops, conferences)  
 WP18/NA7: 36 person-days (meetgs)  
 WP21: 59 person/days (MUonE experiment)  
 WP25/JR7: 30 days (EPIC beamtest, uRwell beamtest, HaSp meetg)  
 CERN: 121 person/days (multiple PhD/Master student support)

Total requests: **430 person-days (to use up all remaining budget).**



# CERN TA 2024: Approved/Provided access

■ Users Selection Panel members:

- 1) David d'Enterria (CERN, experiment)
- 2) Eugeni Grauges (U. Barcelona, experiment)
- 3) Tanguy Pierog (KIT Karlsruhe, theory)
- 4) Patricia Rebello-Teles (CBPF-Rio de Janeiro, experiment/theory)

Virtual meeting held to discuss all received proposals.

■ All requested support approved:

- FT@LHC: 10 days (Gas Feed System calibration and upgrade)
- NLOAccess: 60 days (support for 7 PhD students and 5 postdocs)
- TMDNext: 5+8+6+20+30 = 69 days (CEDAR, COMPASS, PAW-24 workshop, EIC beam tests, COMPASS meetgs)
- VA2 (3DPartons): 15 person-days (STRONG-2020 meetings, workshops, conferences)
- WP18/NA7: 36 person-days (meetgs)
- WP21: 59 person/days (MUonE experiment)
- WP25/JR7: 30 days (EPIC beamtest, uRwell beamtest, HaSp meetg)
- CERN: 121 person/days (multiple PhD/Master student support)

Total approved for 2023:

430 person-days

# CERN TA 2024: Research Activities

- Supported activities at CERN (a few examples):
  - **TMDNext**: CEDAR detector at AMBER beam tests, COMPASS runs
  - **WP21**: MuOnE experiment
  - **WP25/JR7**:  $\mu$ R-Well prototype (LHCb and JLab) beam tests, EPIC beam tests.
  - **FT@LHC**: Gas Feed System calibration and upgrade
  - **WP18/NA7, VA2-3DPartons, NLO-Access**: Meetings onsite.
- Supported workshops:
  - **Physics@AMBER workshop**: <https://indico.cern.ch/e/paw2024> (near) CERN, March 2023
  - **Proton-nucleus workshop**: [https://indico.cern.ch/e/pA\\_LHC\\_2024](https://indico.cern.ch/e/pA_LHC_2024) CERN, 4<sup>th</sup>– 5<sup>th</sup> July 2024
  - **Rencontres de Vietnam – Axions24**: <http://vietnam.in2p3.fr/2024/axions>, ICISE/Quy Nhon, July-Aug. 2024



# Supported STRONG-2020 workshops in 2024

## Physics with high-luminosity proton-nucleus collisions at the LHC - Workshop

4–5 Jul 2024  
CERN  
Europe/Andorra timezone

- Overview
- Timetable
- Contribution List
- Registration
- Participant List

The workshop on "Physics with high-luminosity proton-nucleus collisions at the LHC" will take place at CERN Council Room on 4th-5th July 2024.

The aim of this workshop is to discuss experimental and theoretical issues connected to the physics of proton-nucleus collisions in Run-3 and Run-4 at the LHC. Past results from by the ALICE, ATLAS, CMS/TOTEM, LHCb, and LHCf experiments will be discussed as well as the future measurements to be carried out. The main topics of the workshop include:

- Constraints of nuclear parton distributions
- Small-x QCD and gluon saturation physics.
- GPDs/TMDs/dPDFs with photon-induced p
- "Small system" p-A benchmark measurem
- Photon-photon collisions in p-A
- Double- and triple-parton scattering in p-A.
- Impact of collider p-A (in particular p-O) m
- physics.
- pA, fixed-target, and EIC complementarities
- Beyond the Standard Model opportunities.



18–20 Mar 2024  
Château de Bossey  
Europe/Andorra timezone

AMBER Apparatus for Meson and Baryon Experimental Research

CERN

INFN

JOHANNES GUTENBERG UNIVERSITÄT MAINZ JGU

STRONG 2020

20<sup>th</sup> Rencontres du Vietnam August 4 – 10, 2024 • ICISE • Quy Nhon, Vietnam

OVERVIEW PROGRAM PRACTICAL REGISTRATION PARTICIPANTS ABSTRACTS TOURS ICISE

icise

IPHC

STRONG 2020

IS CAPP

The PAW-24 is the inaugural International Workshop for a new series of Workshops initiated by the AMBER Collaboration at CERN. The PAW-24 will be held in Geneva, Switzerland at the Chateau de Bossey from March 18th to 20th, 2024.

The goal of the PAW International Workshop series is to review the latest progress and future opportunities in forefront research areas of hadron physics related to the AMBER experiment.

The scientific program of PAW-24 will include the following topics:

- Hadron physics with the pion and kaon beams
- Antimatter production with proton beams on hydrogen, deuterium, and helium
- Charge radius of hadrons (proton, pion, kaon)
- Quark and gluon structures of pion and kaon
- Meson structure with Drell-Yan, charmonium, and photon production
- Hadron spectroscopy with kaon-induced reactions
- Instrumentations and methods for meson beam lines

The PAW-24 Workshop is partially supported by CERN and INFN.

Starts 18 Mar 2024, 08:30  
Ends 20 Mar 2024, 18:00  
Europe/Andorra

Château de Bossey  
Chemin Chenevière 2  
1279 Bogis-Bossey  
Switzerland  
[Go to map](#)