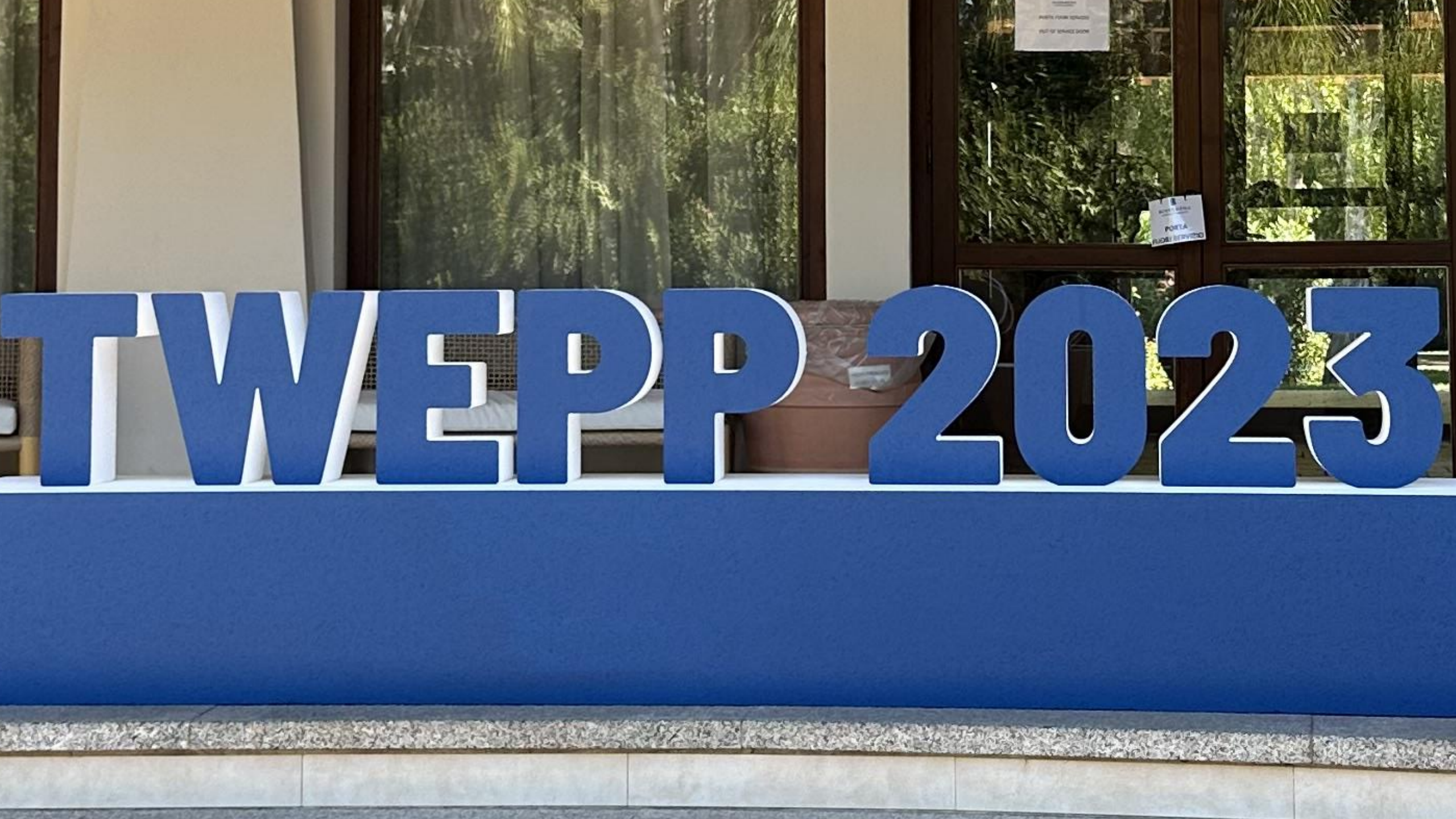
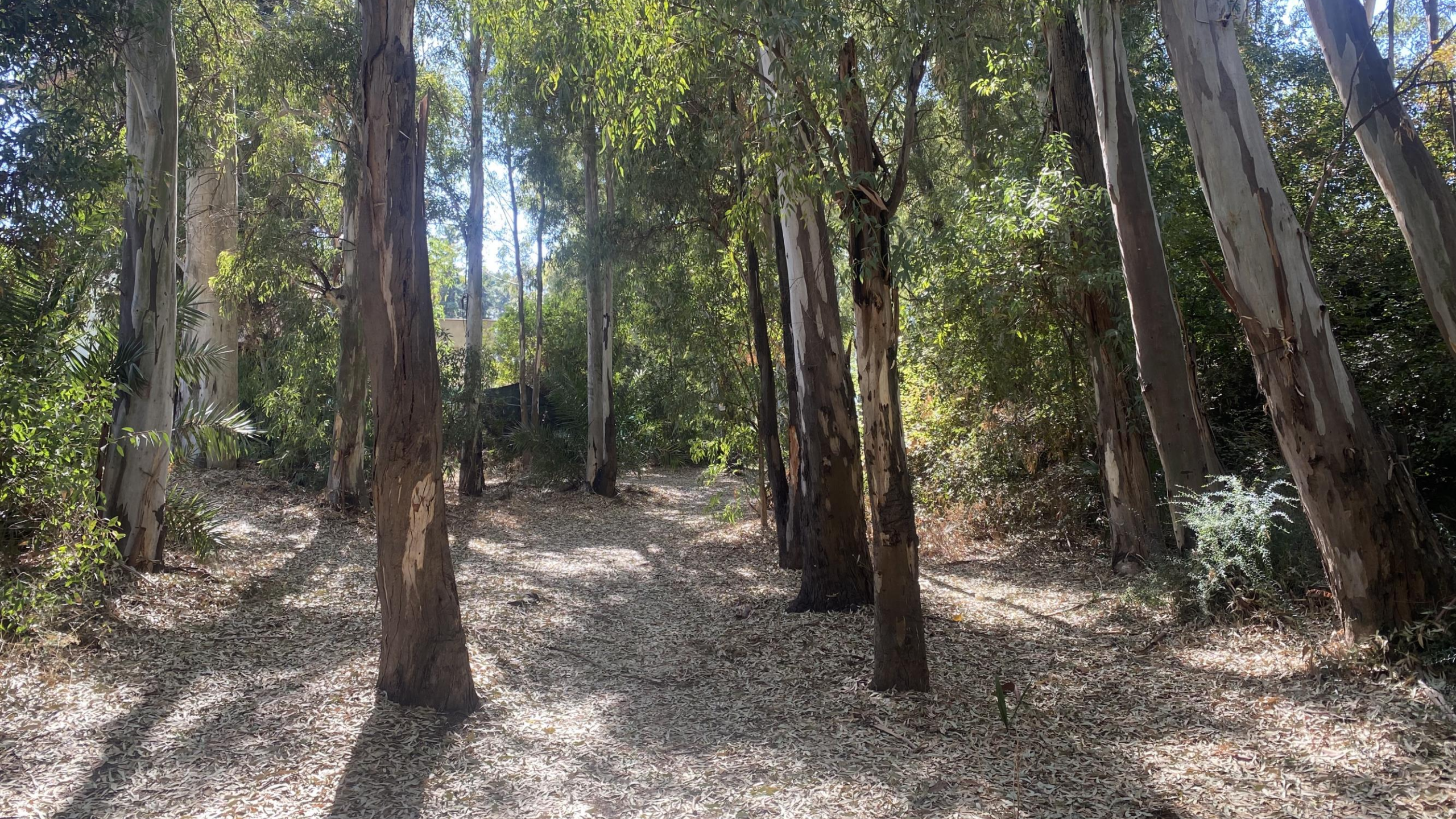
TWEPP closing

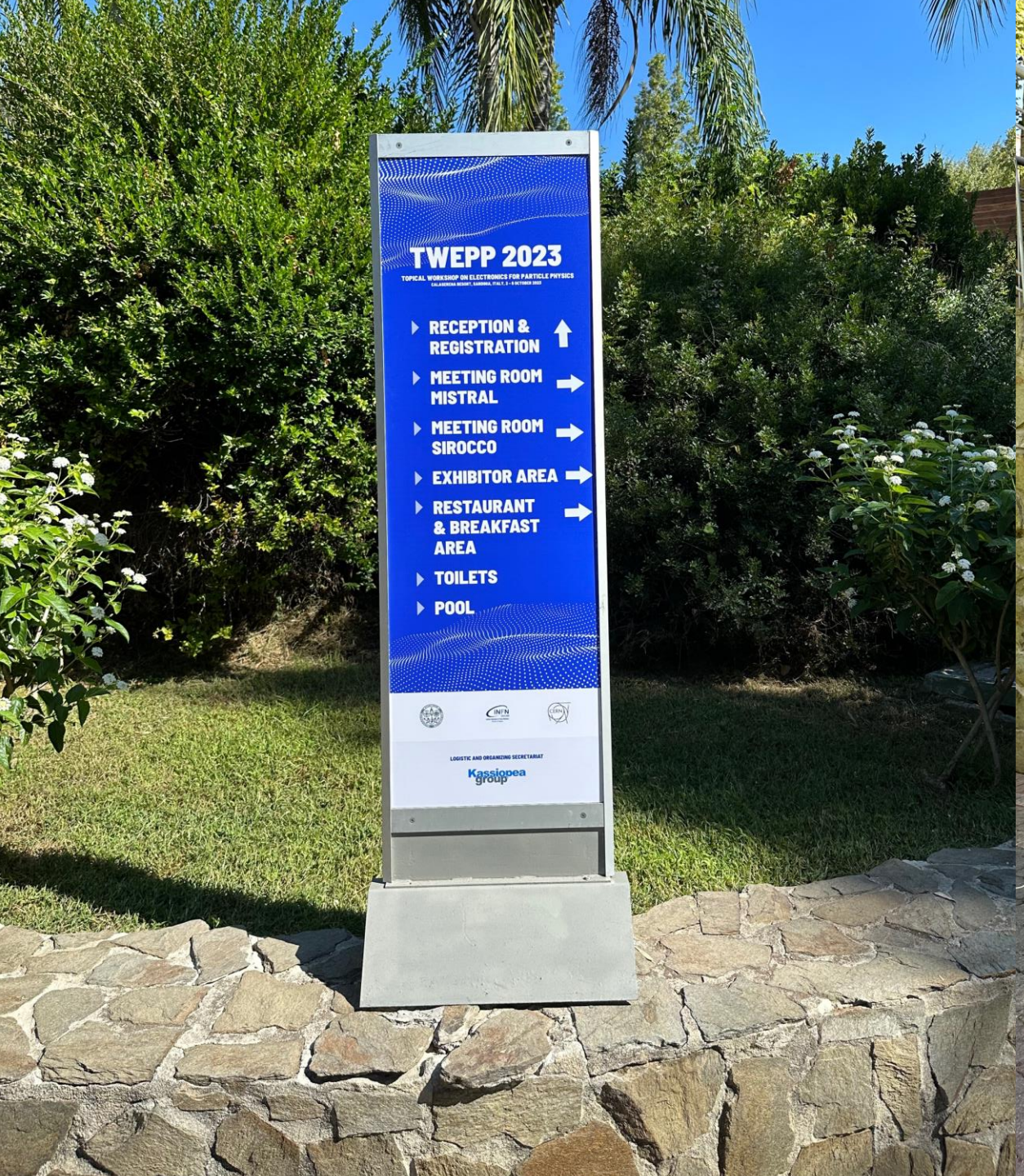
A. Kluge

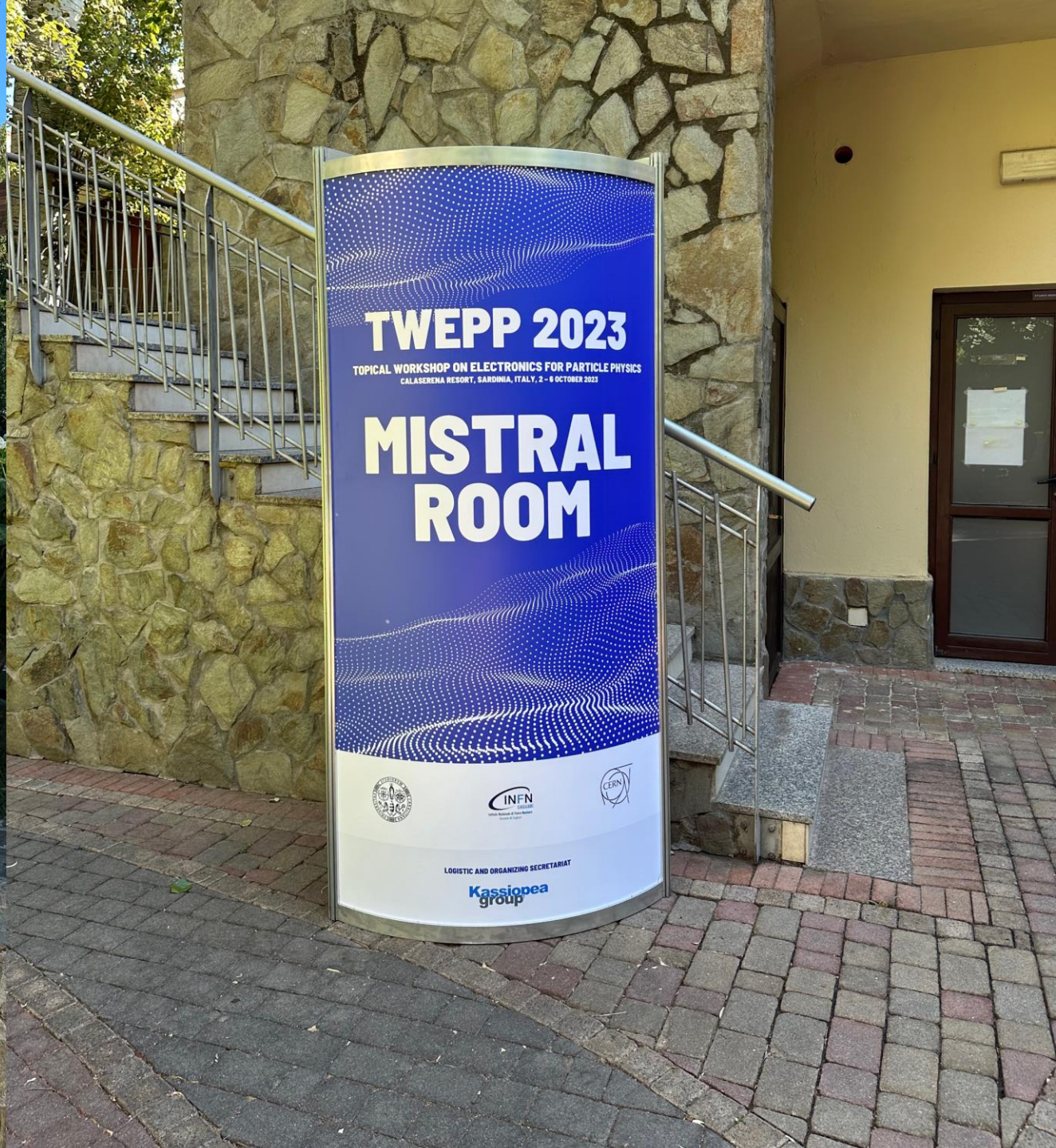
TWEPP, 6 October, 2023

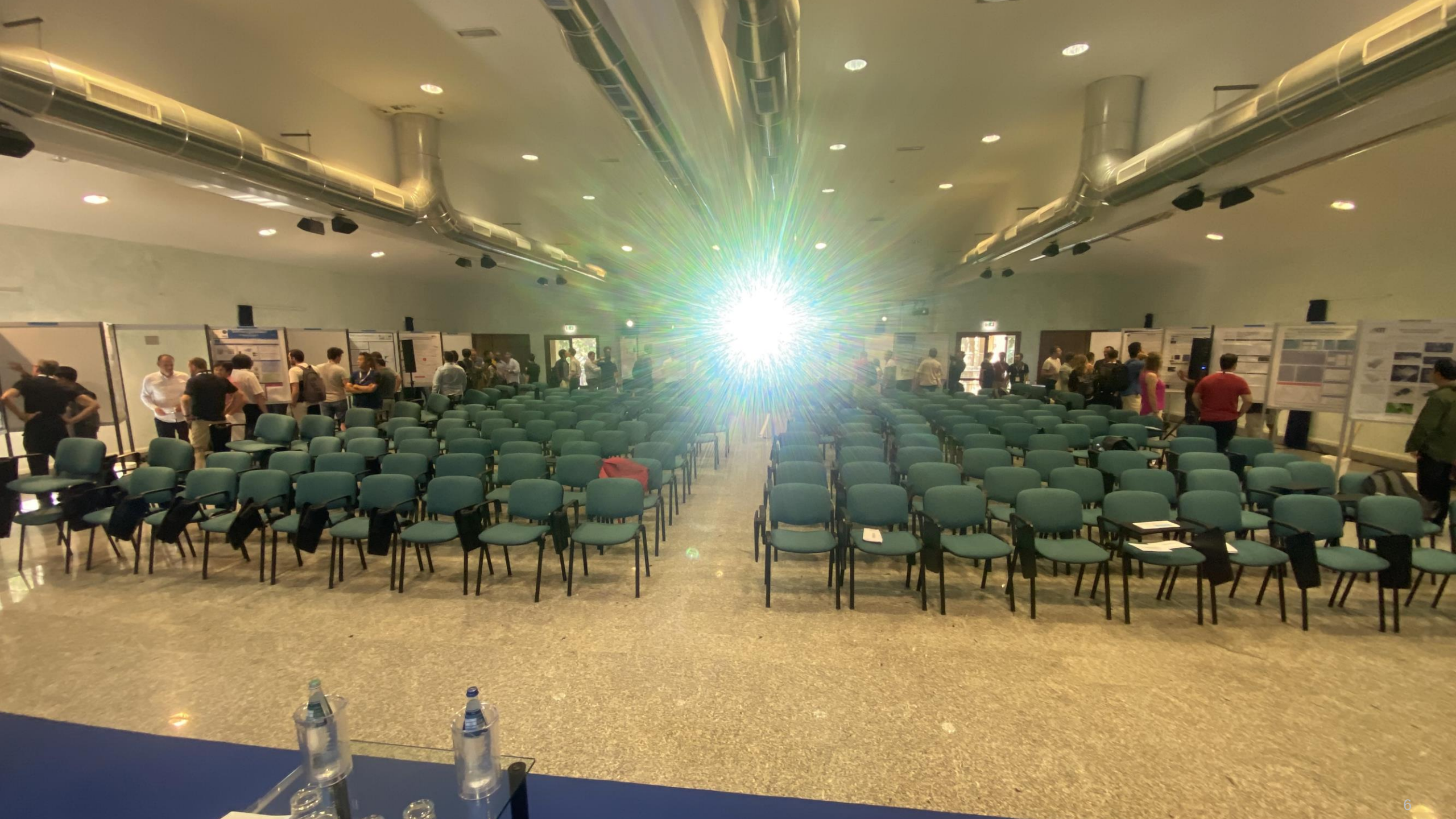

TWEPP 2023

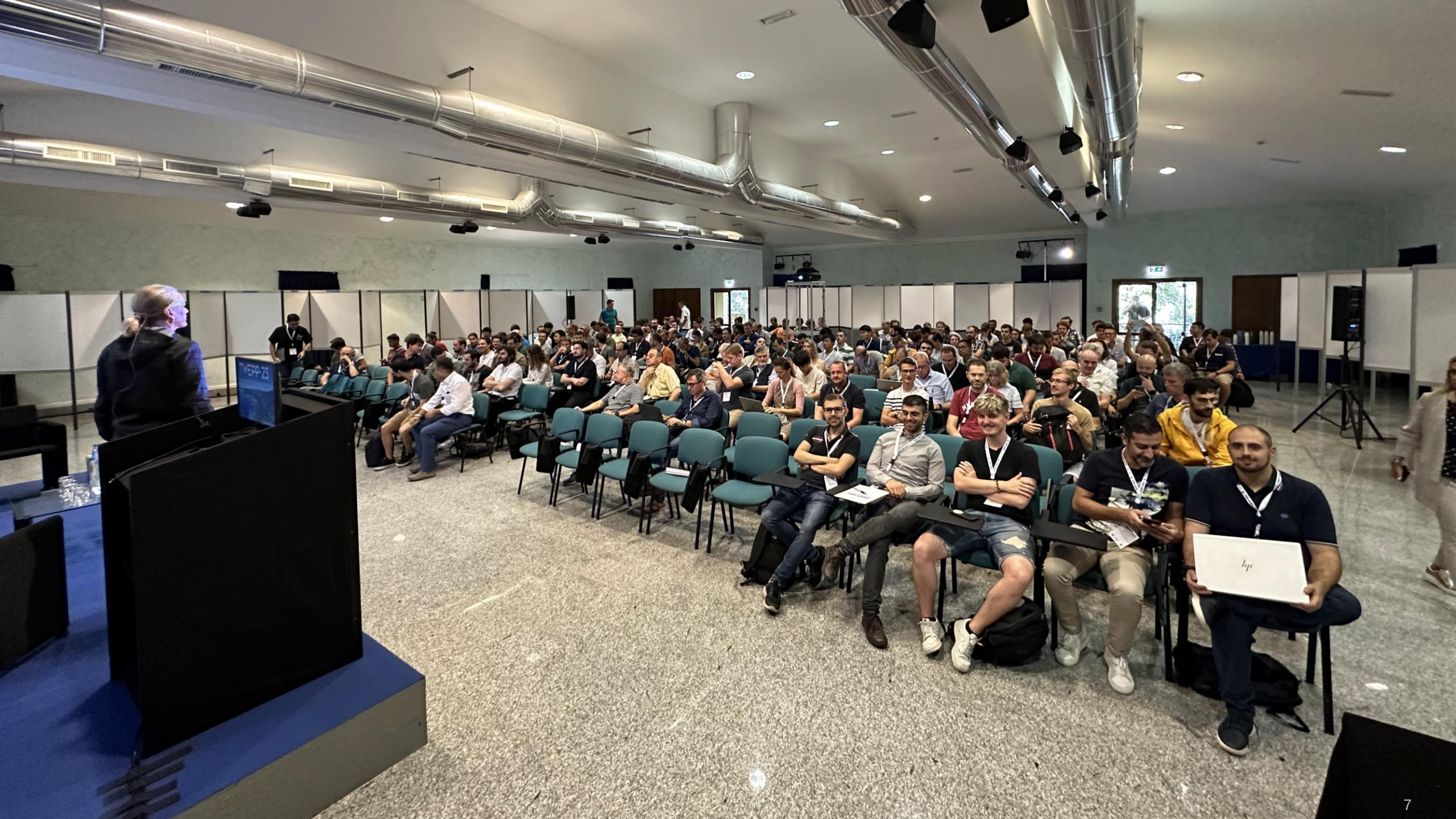
Workshop organization & venue

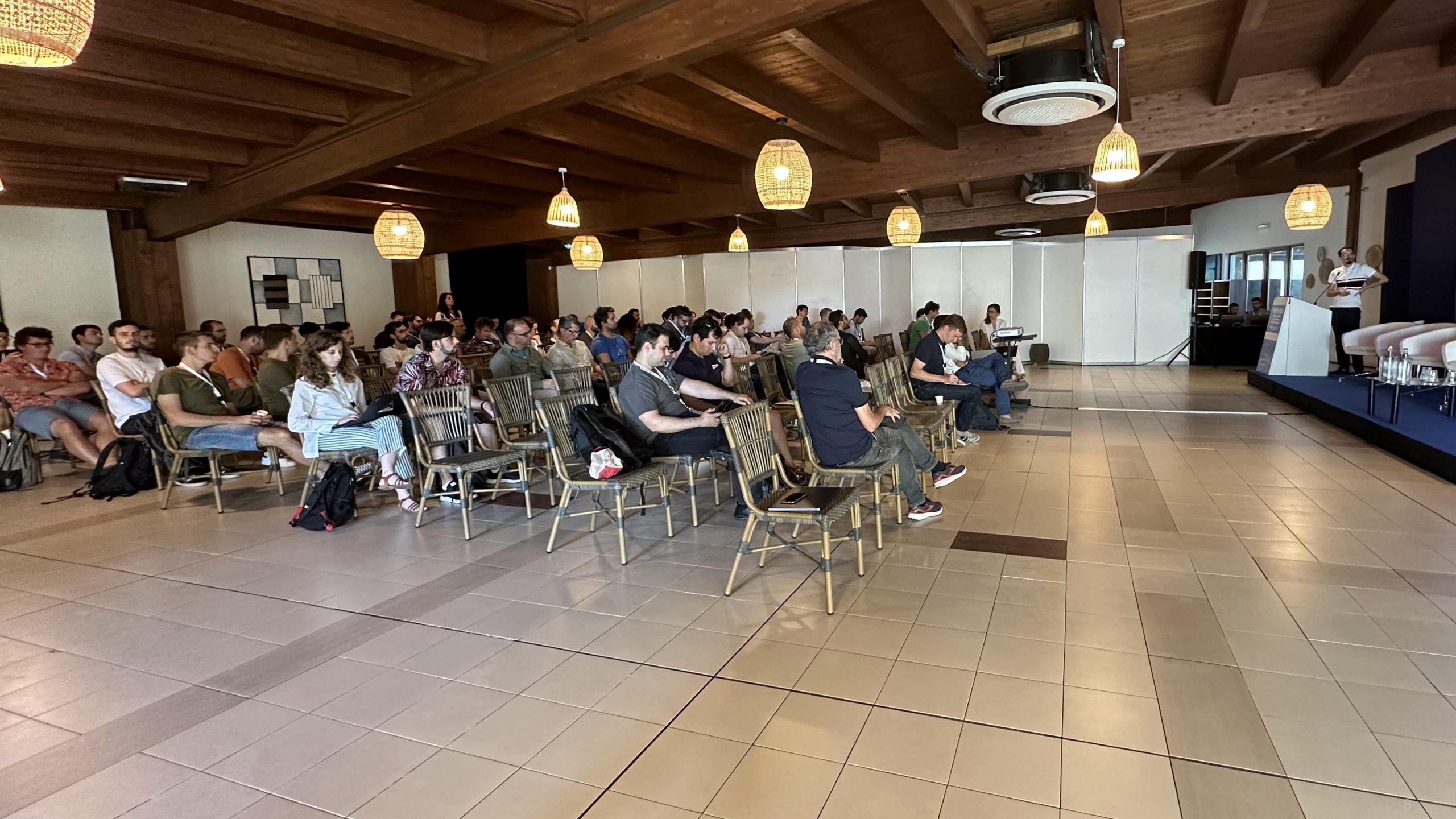


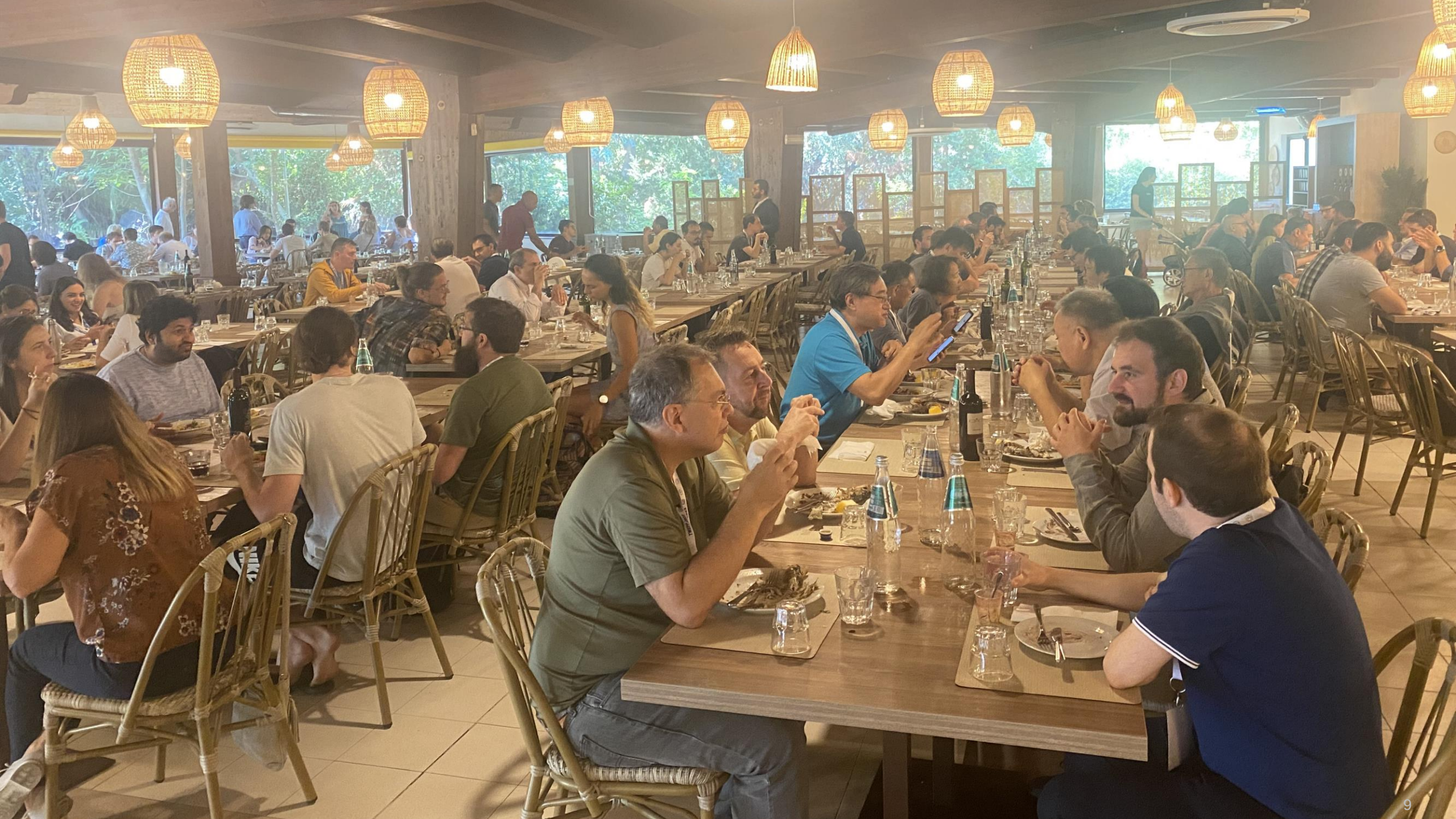

TWEPP 2023
TOPICAL WORKSHOP ON ELECTRONICS FOR PARTICLE PHYSICS
RECEPTION & REGISTRATION
MEETING ROOM MISTRAL
MEETING ROOM SIROCCO
EXHIBITOR AREA
RESTAURANT & BREAKFAST AREA
TOILETS
POOL
LOGISTIC AND ORGANIZING SECRETARIAT
Kassiopea group

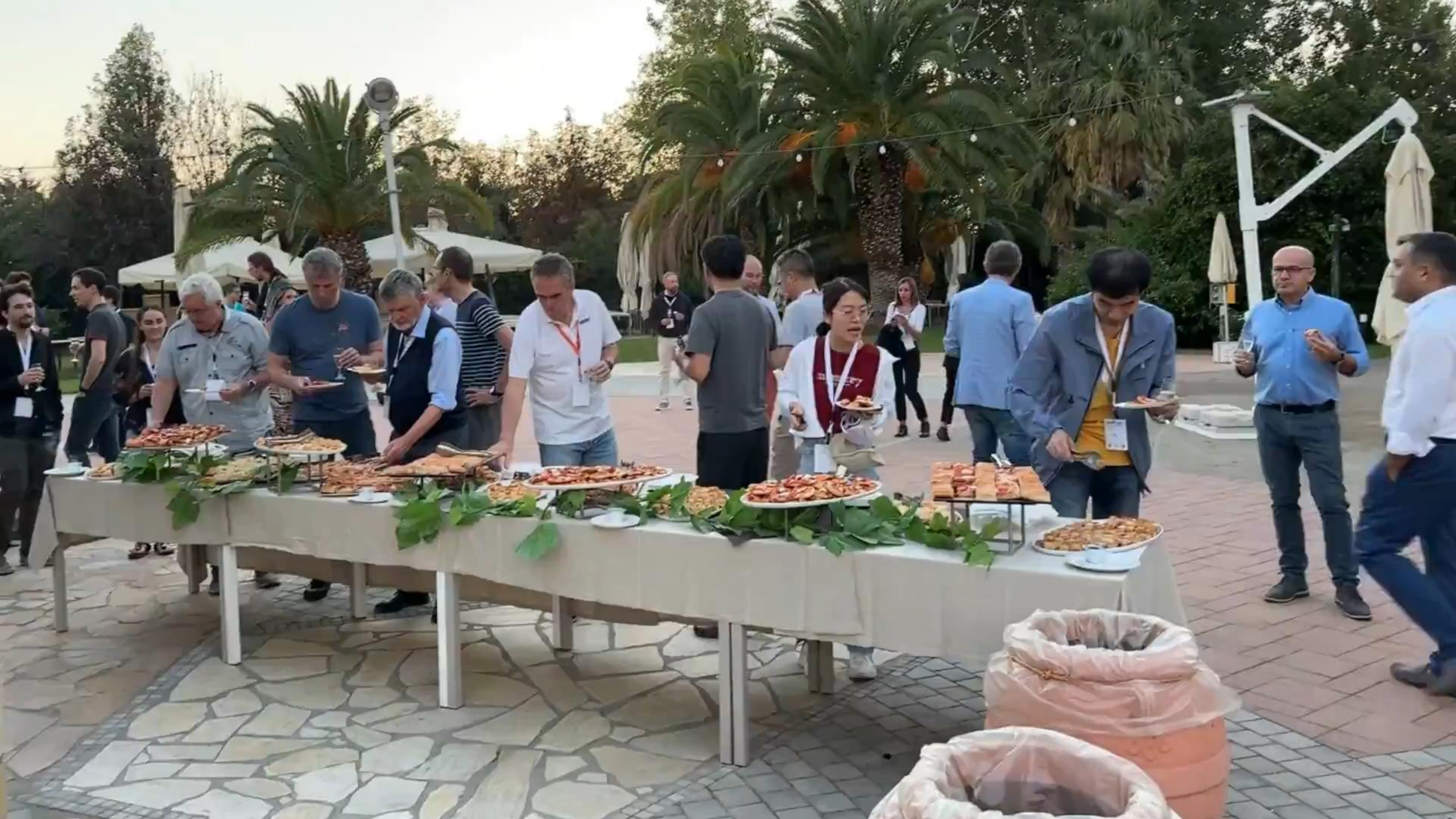

TWEPP 2023
TOPICAL WORKSHOP ON ELECTRONICS FOR PARTICLE PHYSICS
CALASERENA RESORT, SARDINIA, ITALY, 2 – 6 OCTOBER 2023
MISTRAL ROOM
INFN
CERN
LOGISTIC AND ORGANIZING SECRETARIAT
Kassiopea group

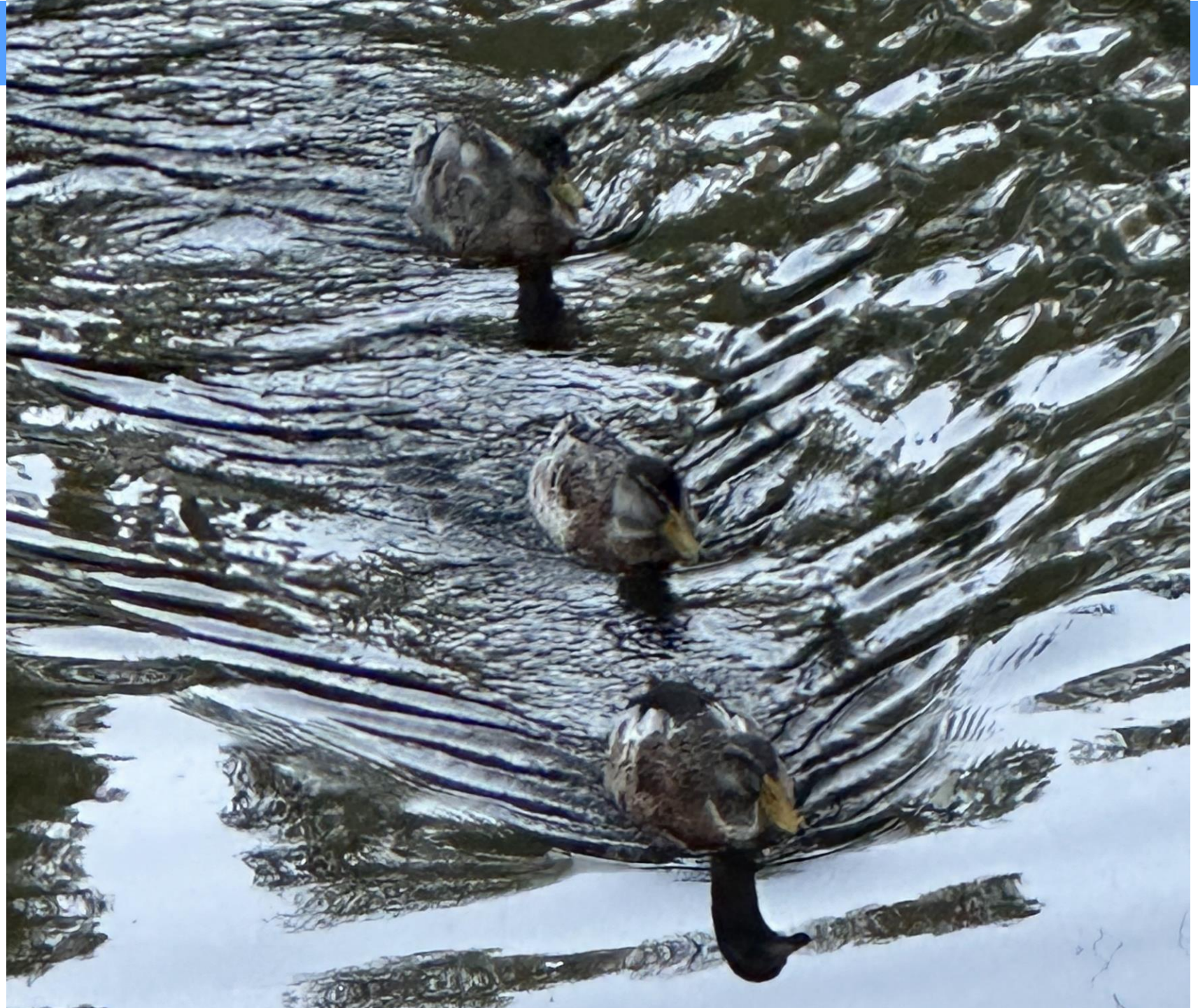


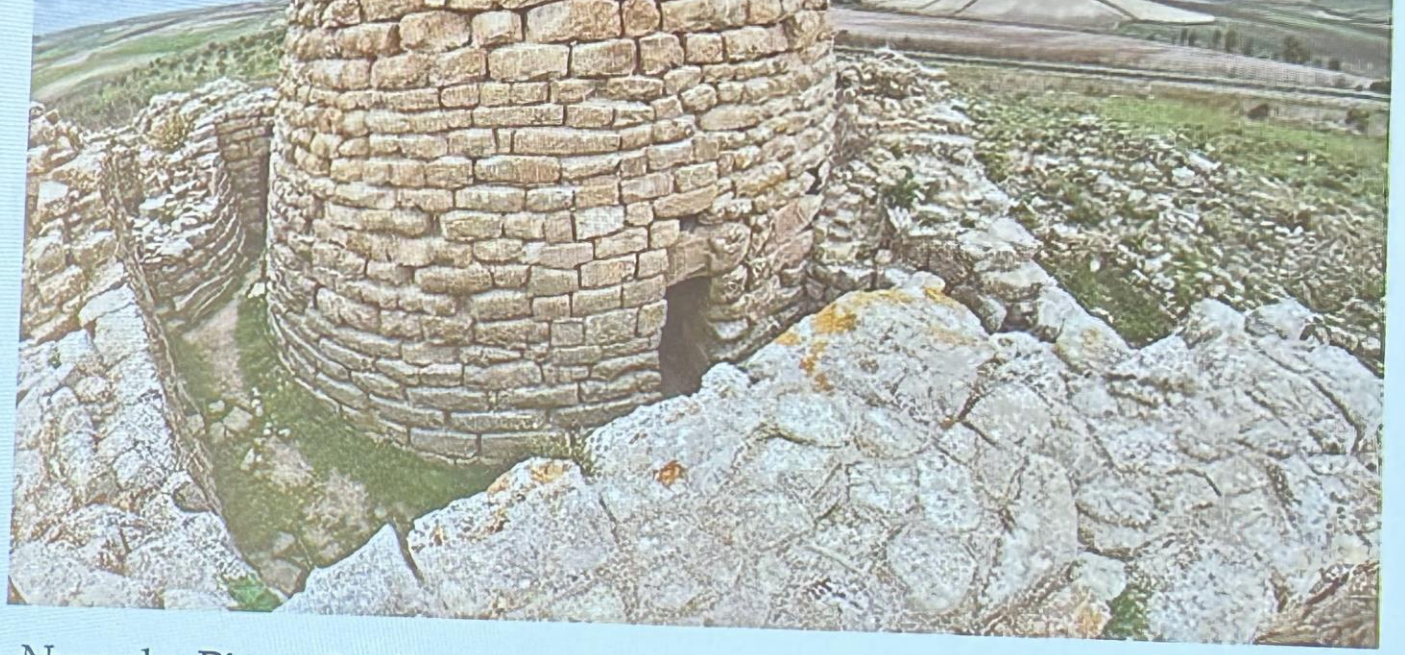

WEPP-23



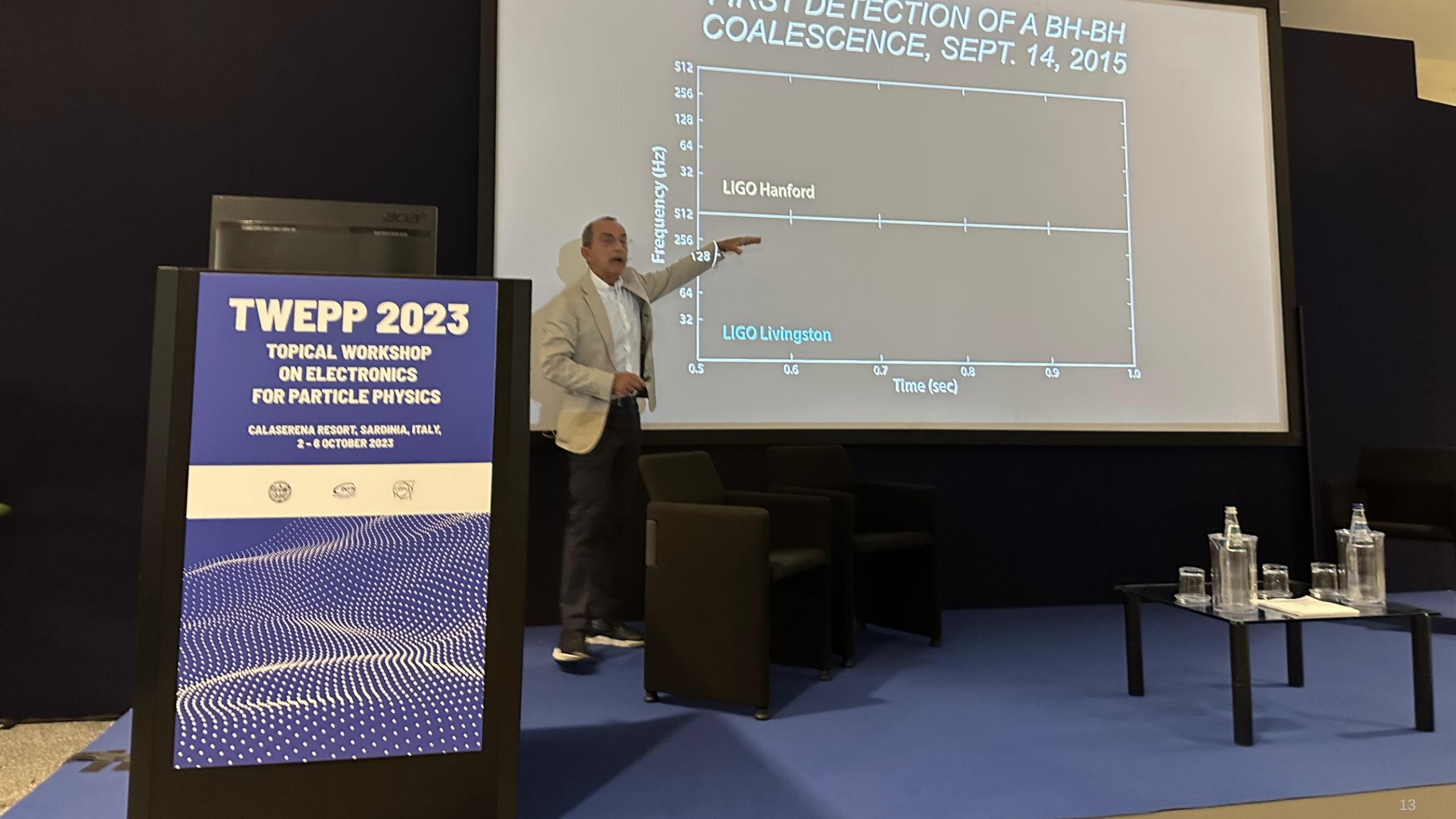


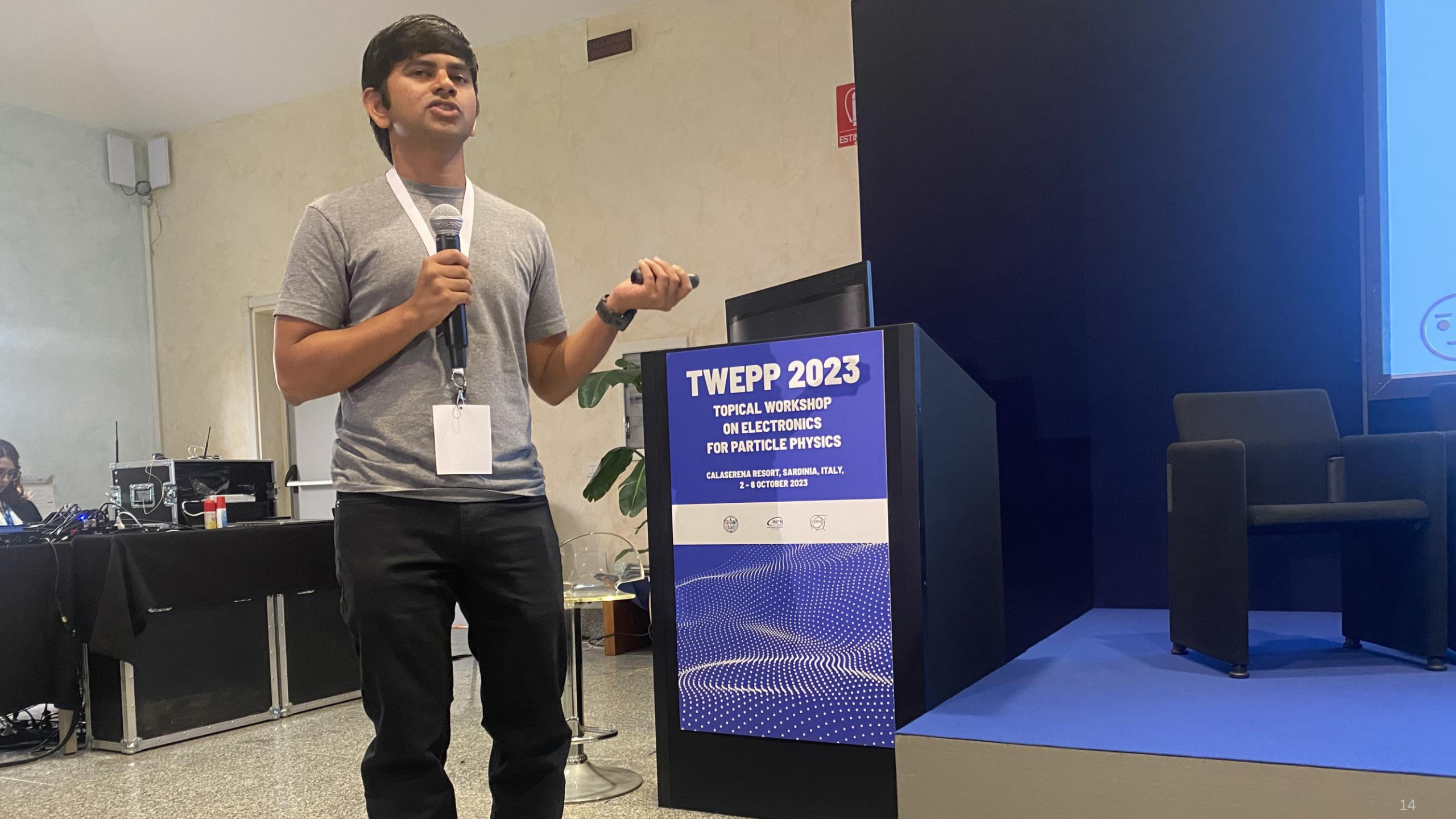


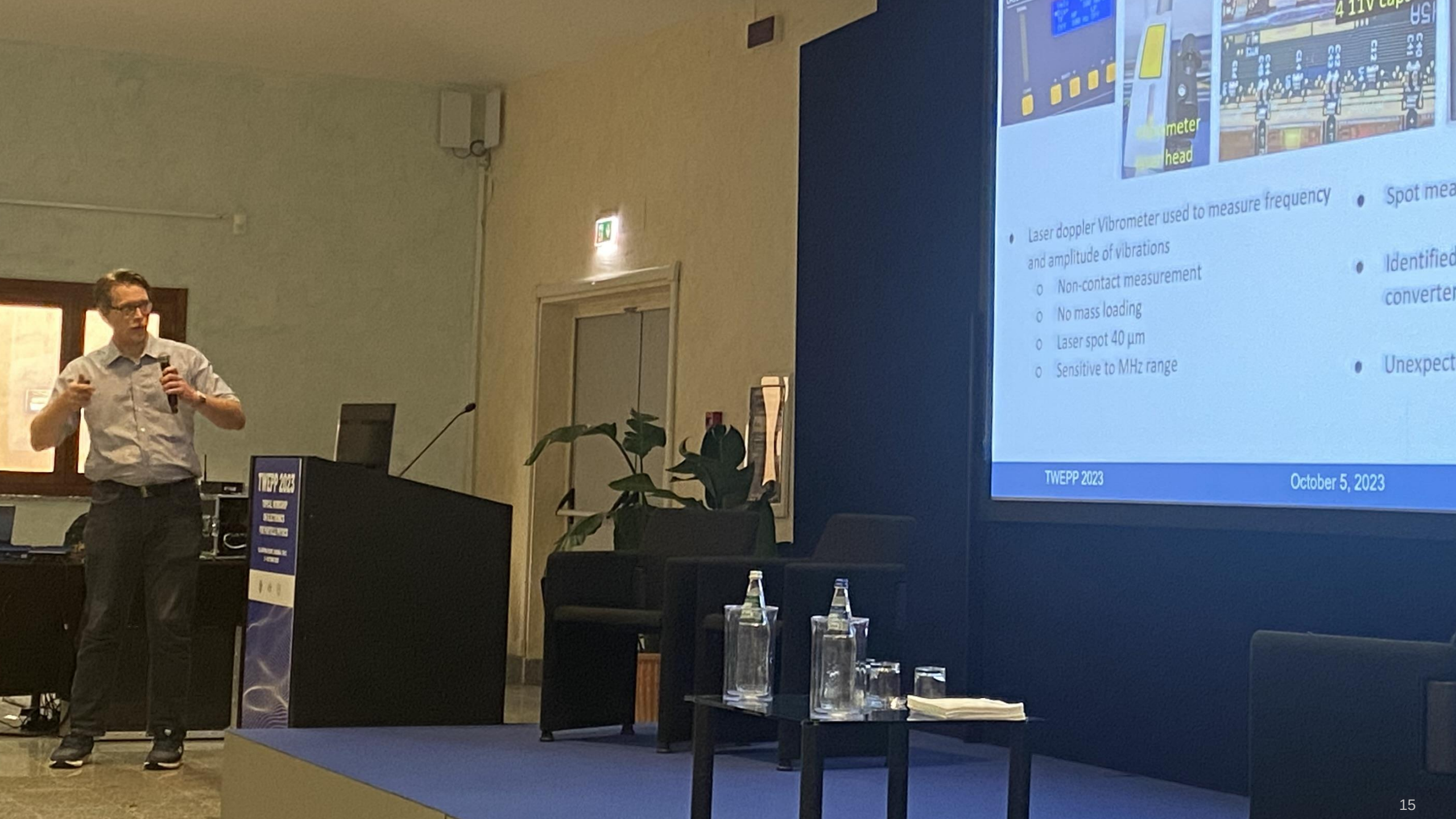


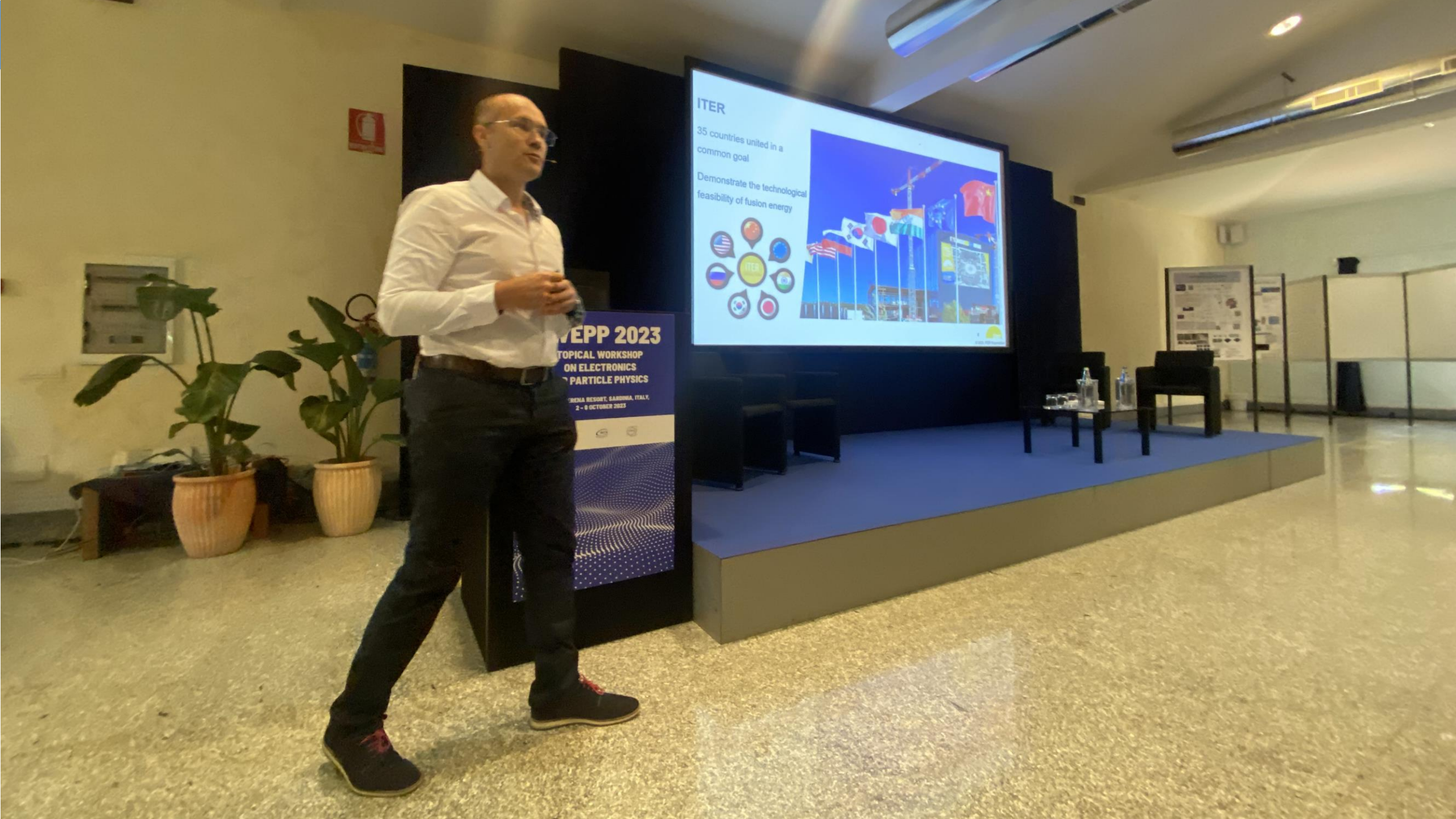


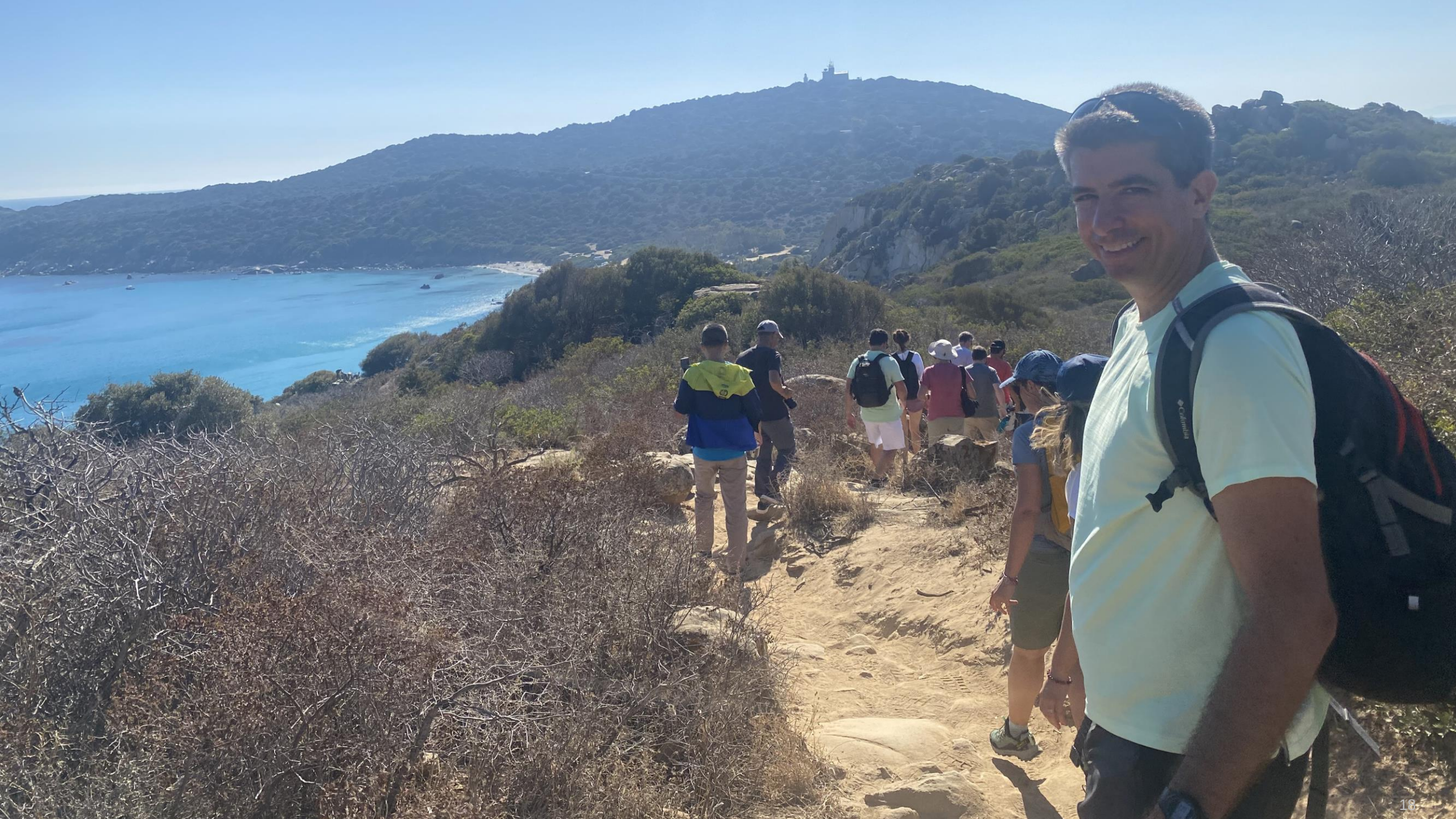
Nuraghe Piscu, Suelli

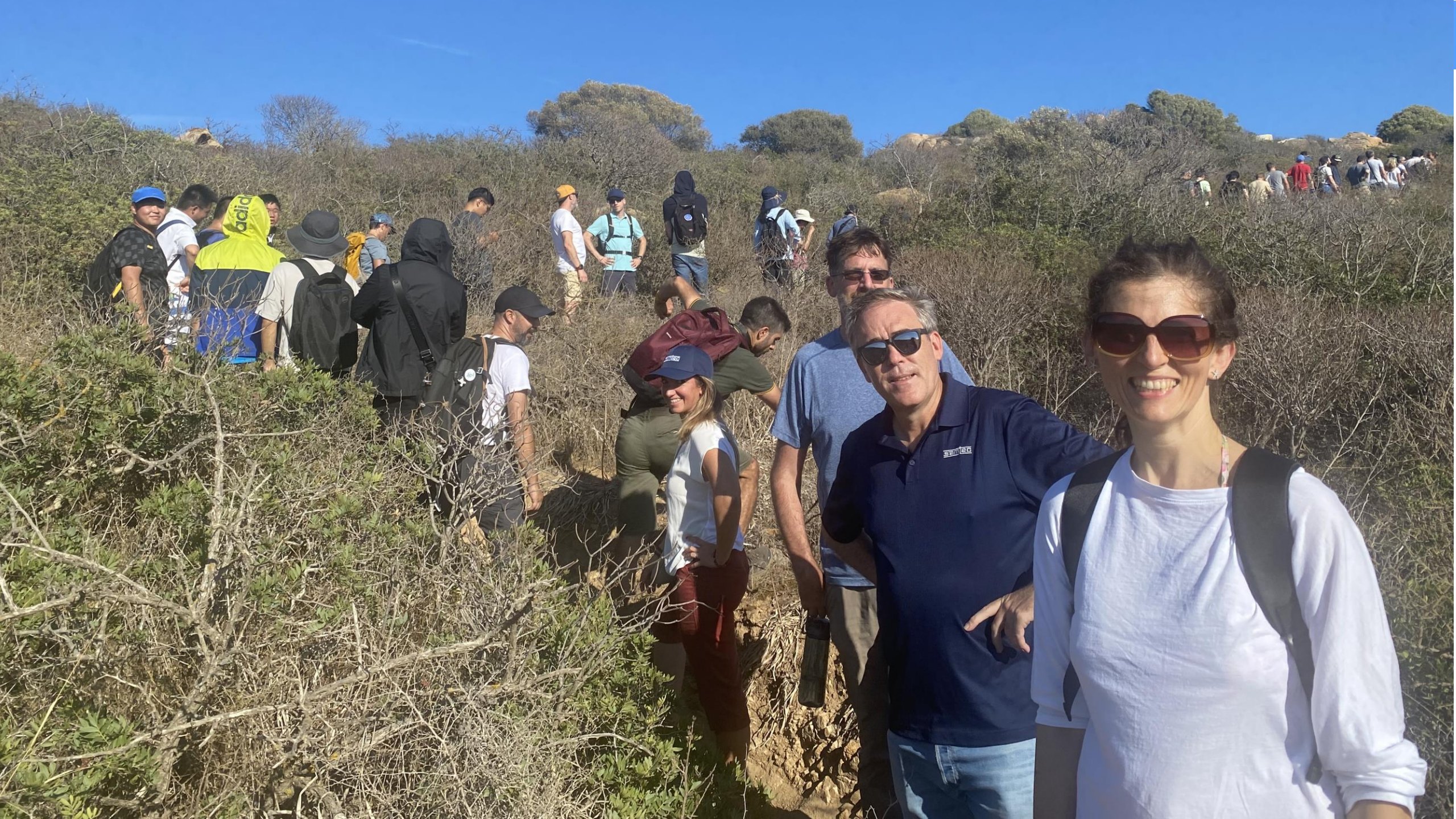

TWEPP 2023
TOPICAL WORKSHOP
ON ELECTRONICS
FOR PARTICLE PHYSICS
CALASERENA RESORT, SARDINIA, ITALY,
2 – 6 OCTOBER 2023
FIRST DETECTION OF A BH-BH
COALESCENCE, SEPT. 14, 2015
Frequency (Hz)
512
256
128
64
32
LIGO Hanford
LIGO Livingston
0.5
0.6
0.7
0.8
0.9
1.0
Time (sec)

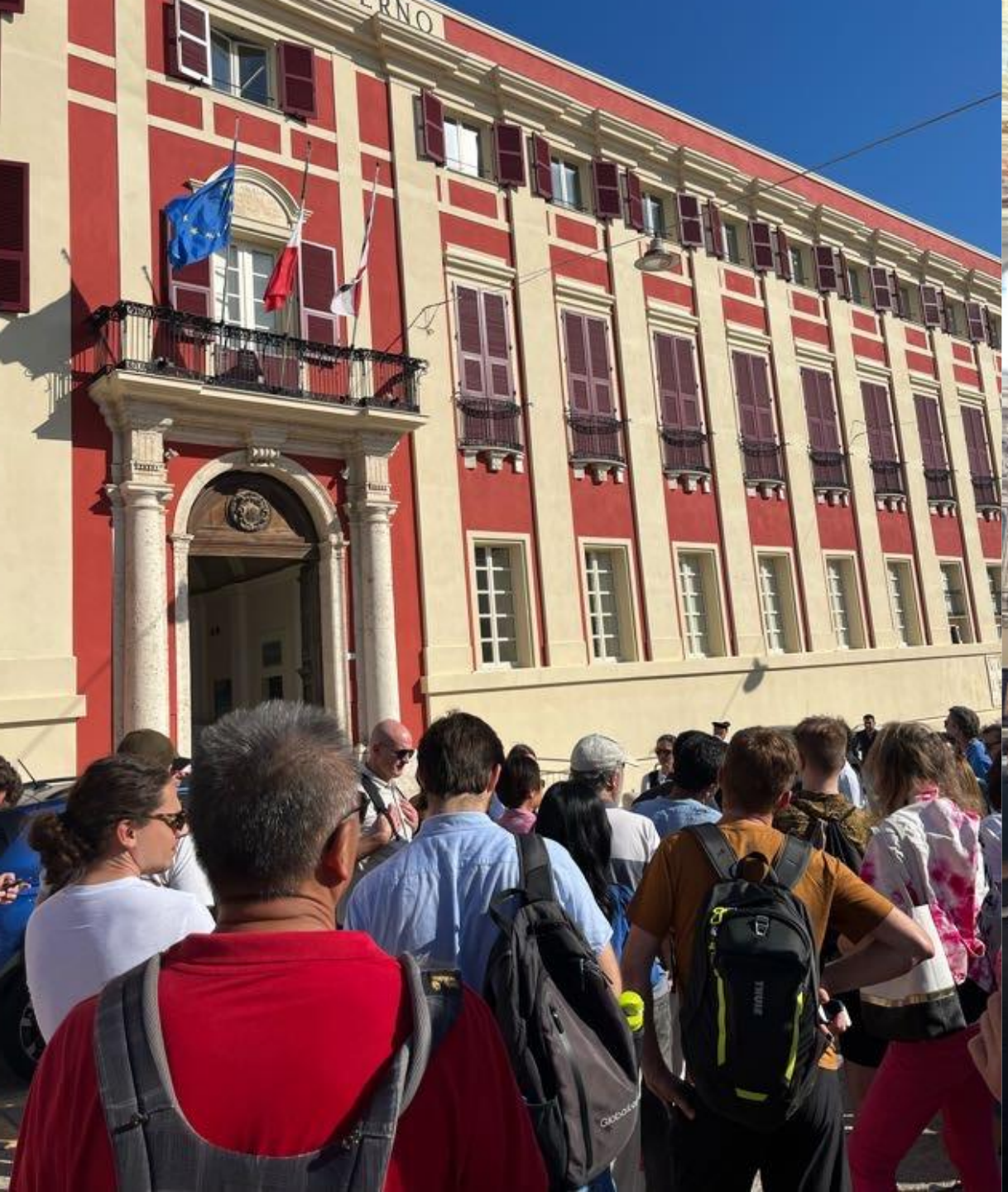

TWEPP 2023
TOPICAL WORKSHOP
ON ELECTRONICS
FOR PARTICLE PHYSICS
CALASERENA RESORT, SARDINIA, ITALY,
2 - 6 OCTOBER 2023

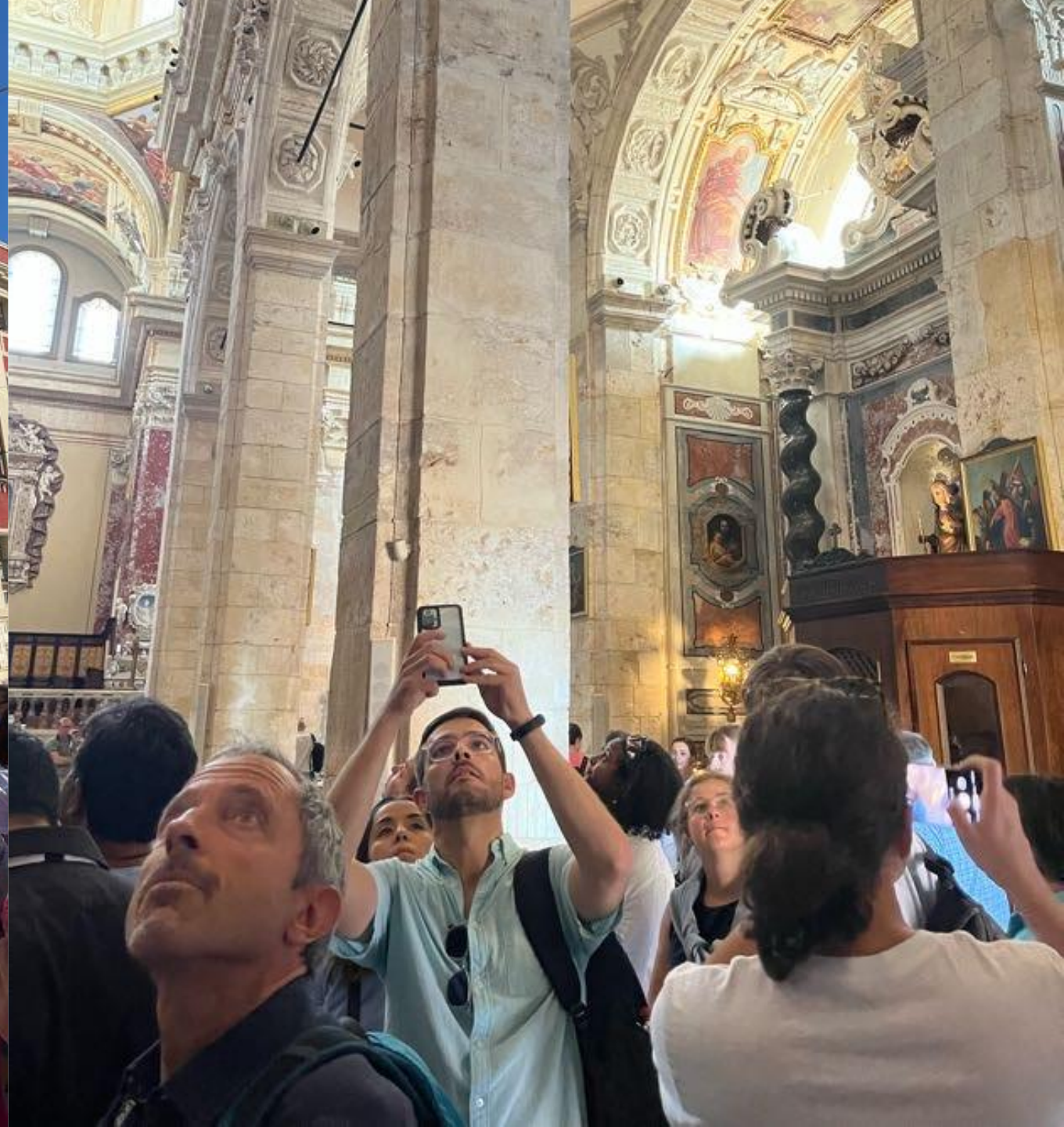

meter
head
Laser doppler Vibrometer used to measure frequency and amplitude of vibrations
Non-contact measurement
No mass loading
Laser spot 40 µm
Sensitive to MHz range
Spot mea
Identified
converter
Unexpect
TWEPP 2023
October 5, 2023
TWEPP 2023

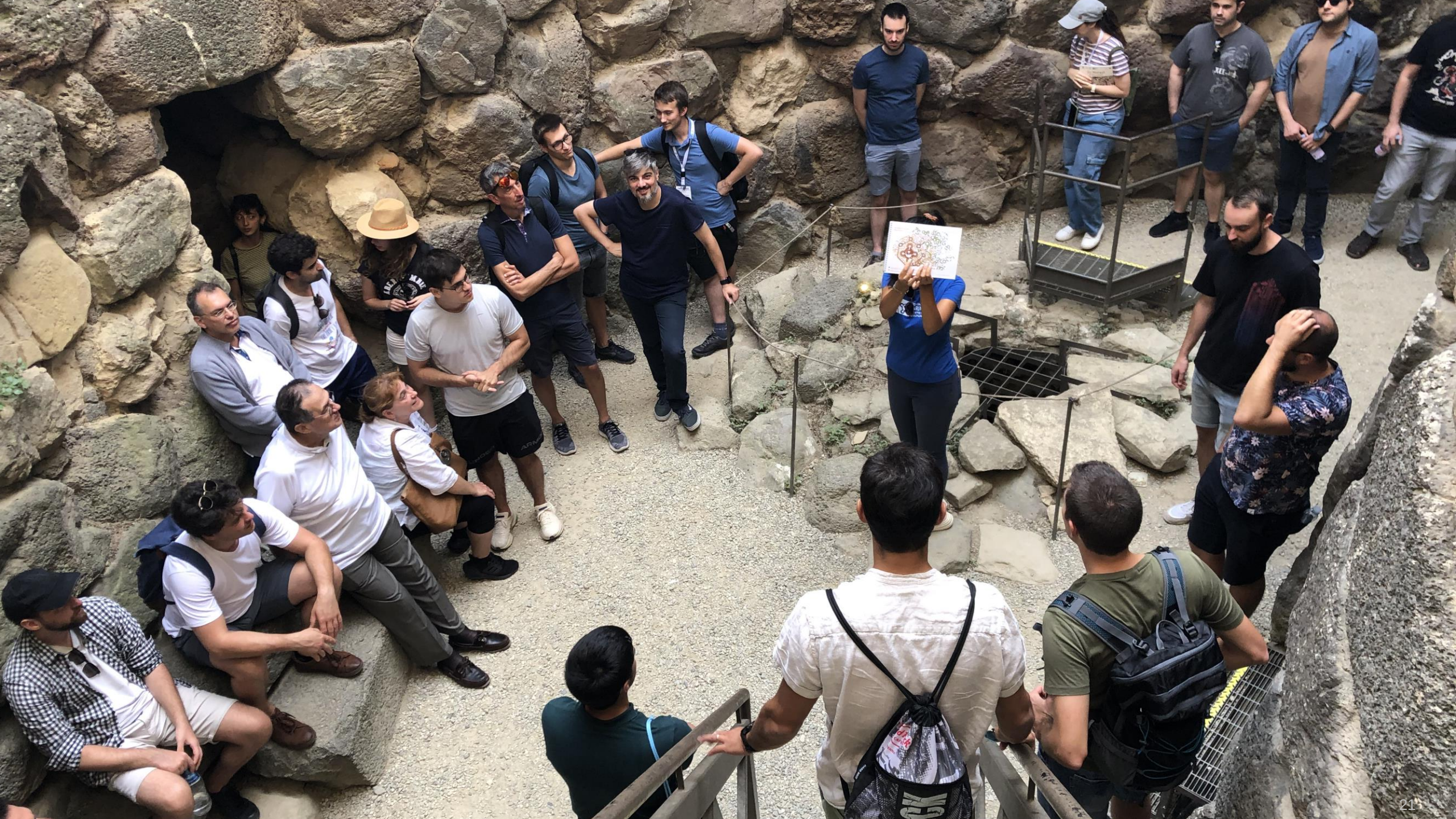

ITER
35 countries united in a common goal
Demonstrate the technological feasibility of fusion energy
ITER
VEPP 2023
TOPICAL WORKSHOP
ON ELECTRONICS
PARTICLE PHYSICS

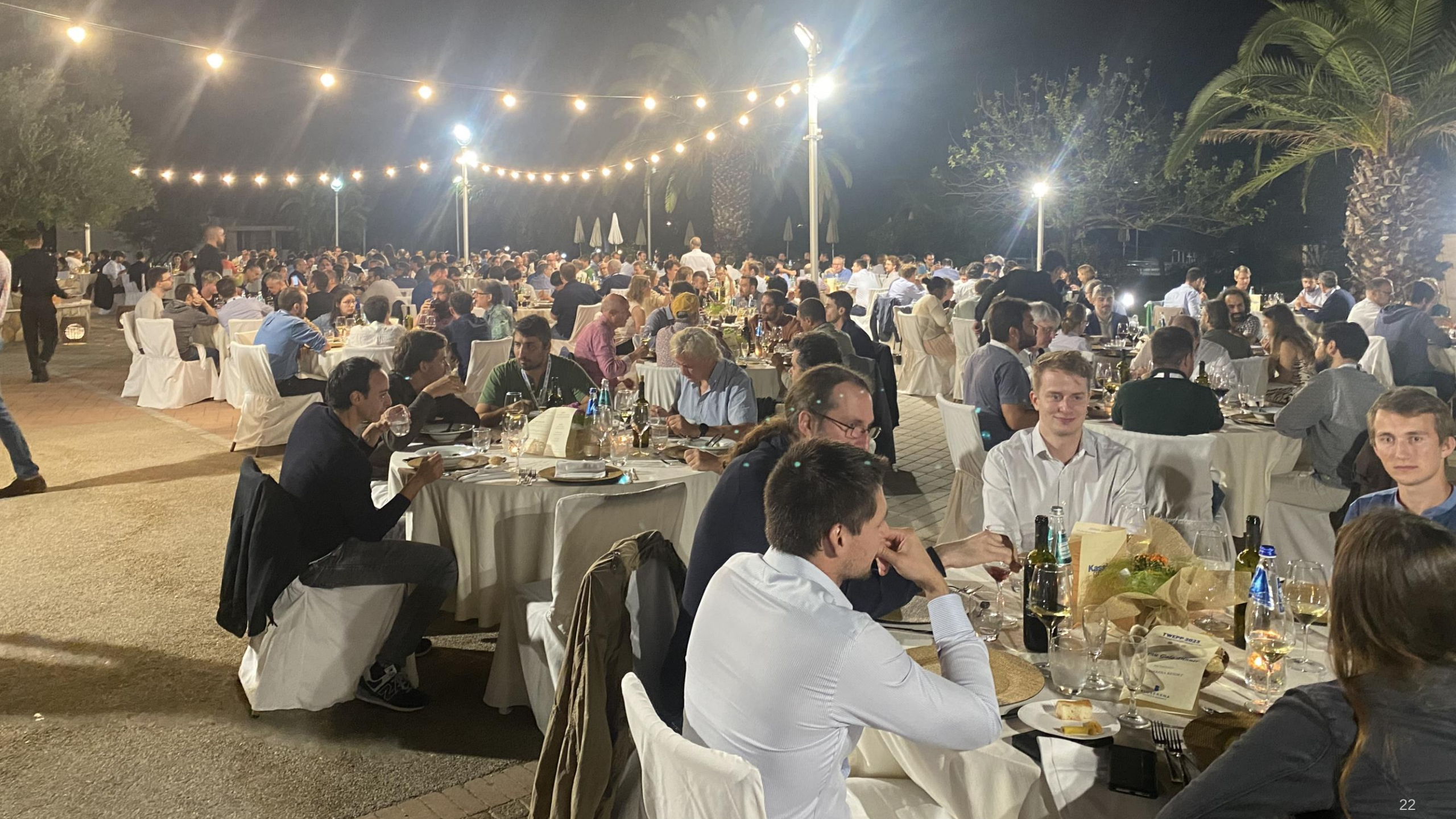


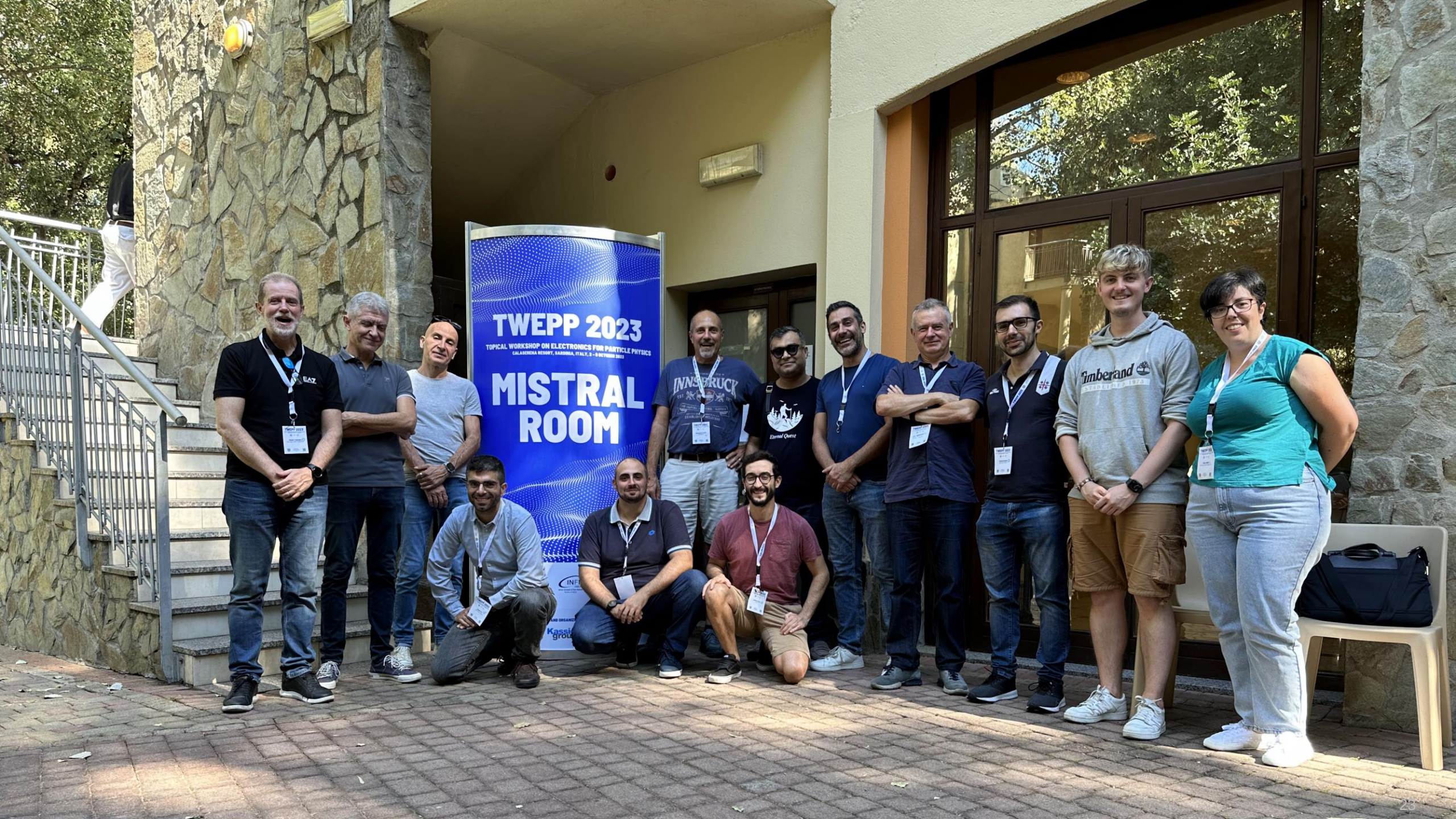


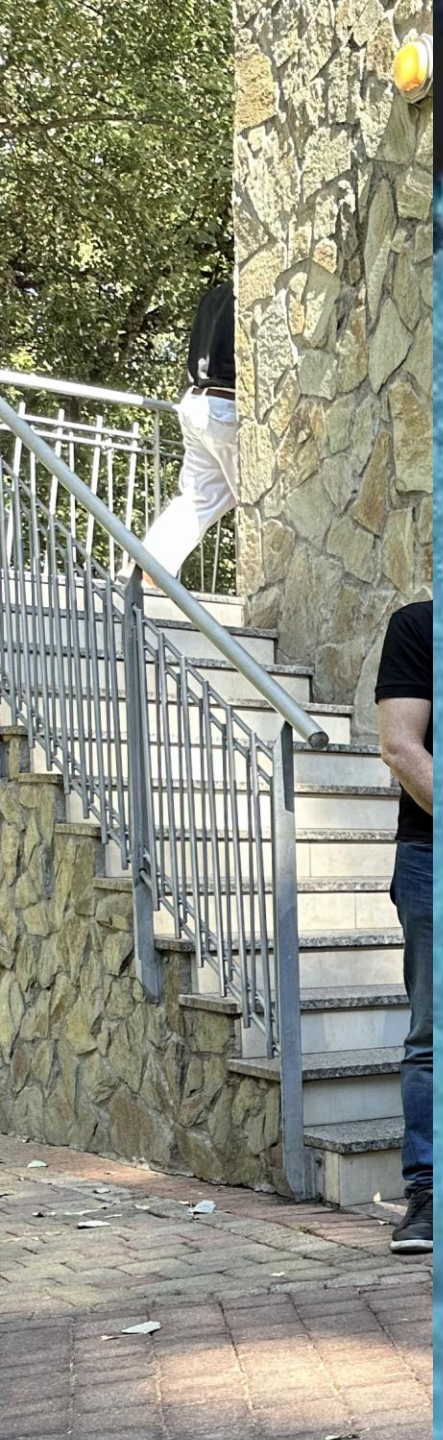






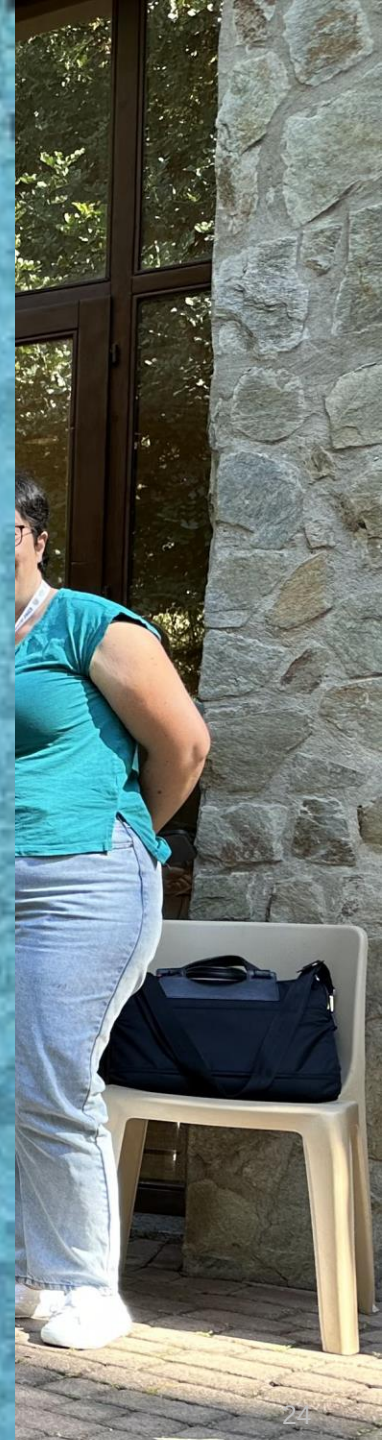


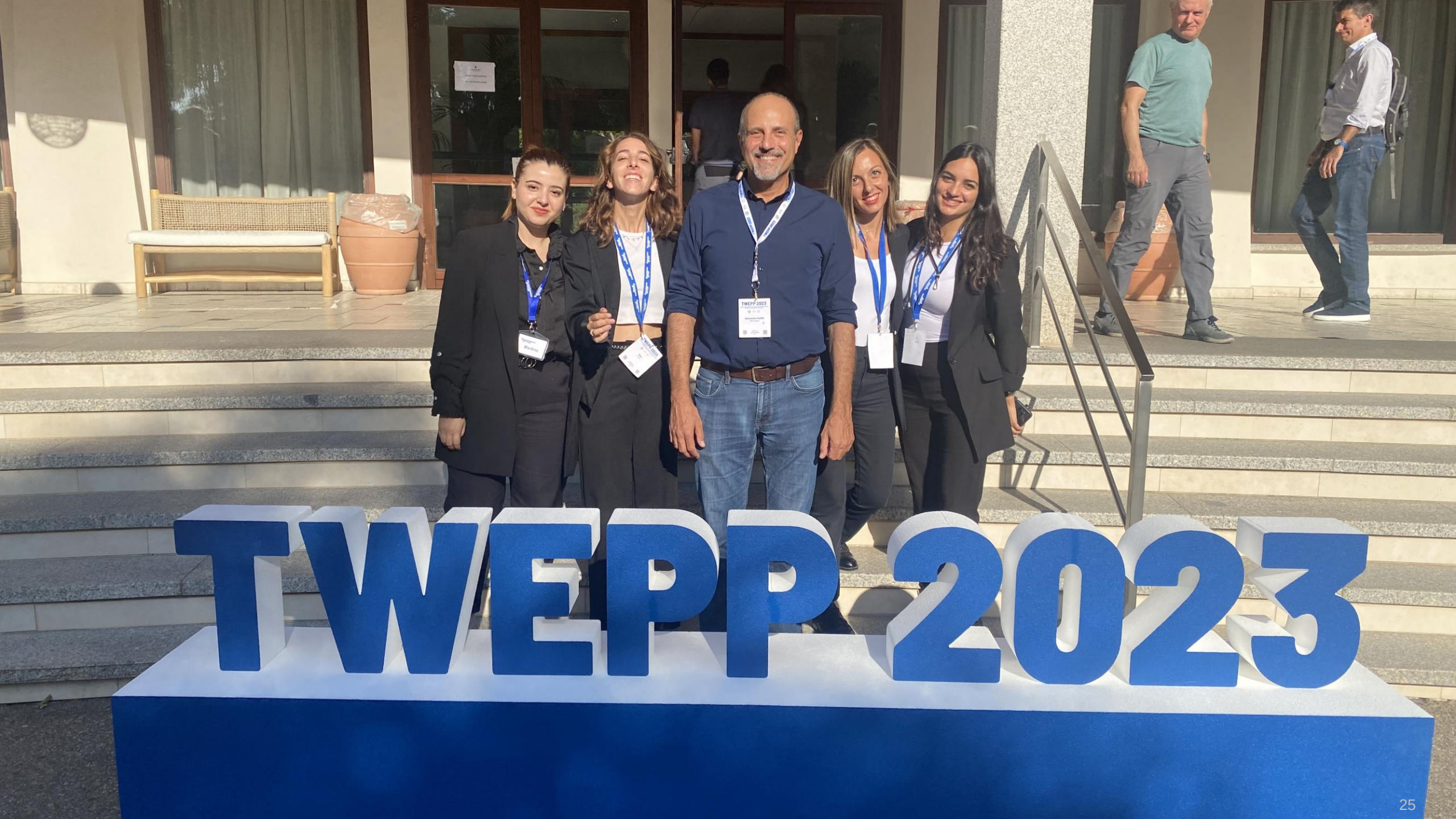

TWEPP 2023
TOPICAL WORKSHOP ON ELECTRONICS FOR PARTICLE PHYSICS
MISTRAL ROOM
INNSBRUCK
Timberland



Local organisation

A. Cardini (INFN Cagliari)
A. Lai (INFN Cagliari)
S. Cadeddu (INFN Cagliari)
G. Usai (Università & INFN Cagliari)
C. Cicalò (INFN Cagliari)
S. Siddhanta (INFN Cagliari)
G. M. Cossu (INFN Cagliari)
A. Loi (INFN Cagliari)
A. Lampis (INFN Cagliari)
M. Garau (INFN Cagliari)
M. G. Dessì (INFN Cagliari, Administration)

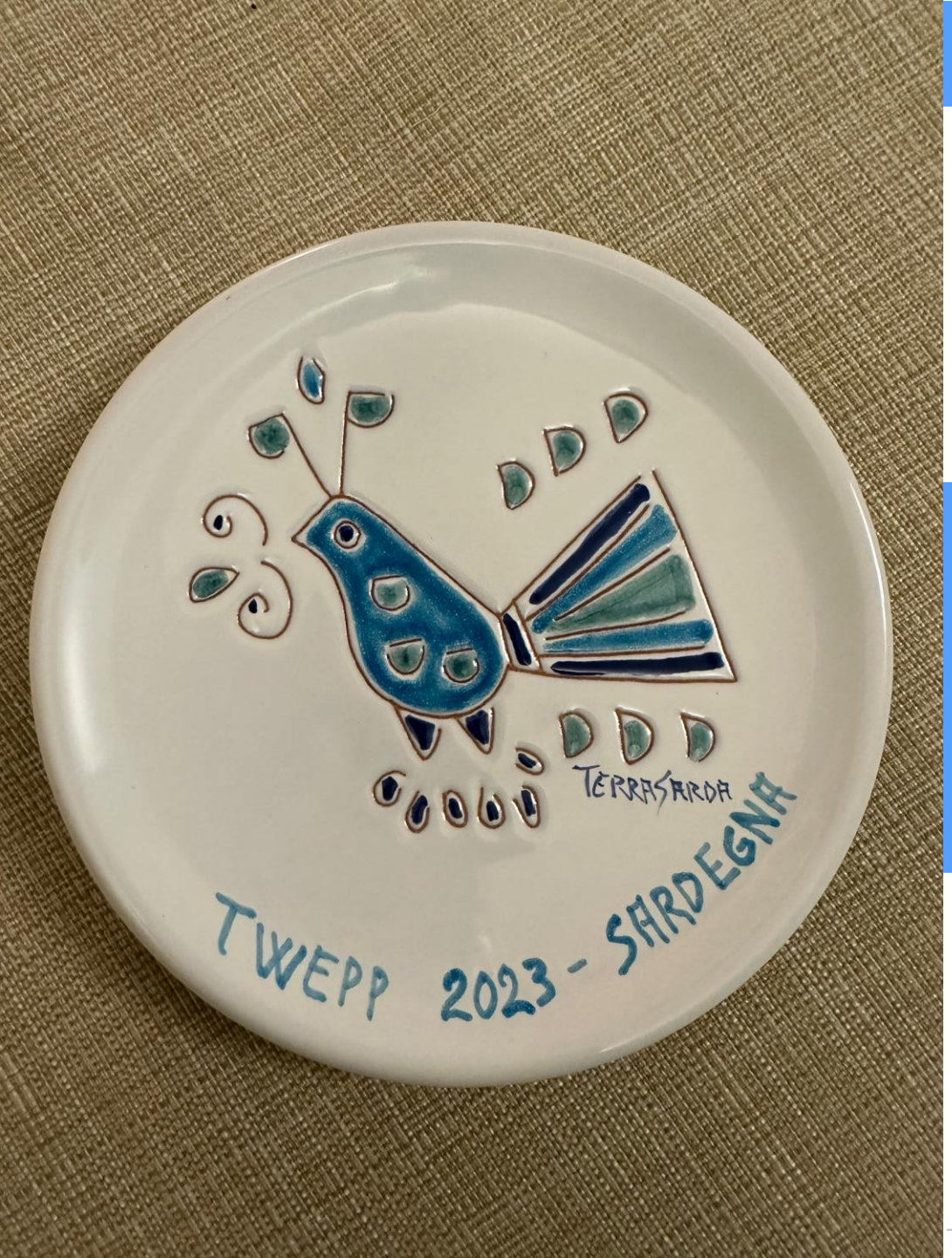



TWEPP 2023


samtec


CAEN
Tools for Discovery


MPI



Proceedings

Proceedings

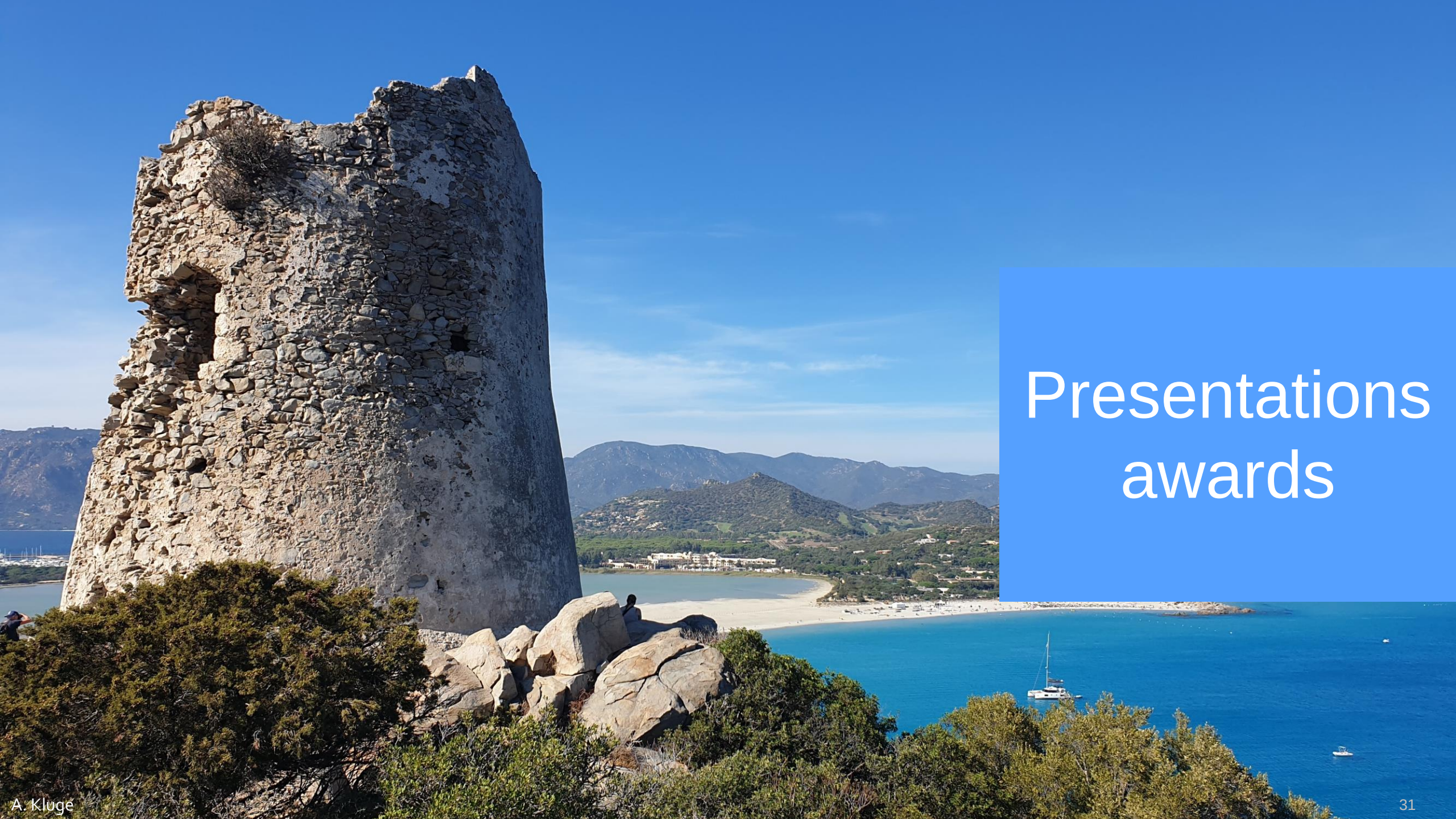
- **JINST - https://jinst.sissa.it/jinst/**
  - **submission using JINST web based infra structure**
  - **organized as non-open access, no cost for the author**
    - JINST offers open access, cost would need to be covered by author/institute/experiment
  - **each paper assigned to 2 referees**
    - from TWEPP scientific committee
    - https://indico.cern.ch/event/1255624/page/28782-twepp-scientific-committee
- **Length**
  - **number of pages must not exceed 5 pages**
    - **(excluding the title & abstract page & references)** for both oral and poster contributions
- **Deadline November 3, 2023 → no extension**
- **Instruction to authors**
  - **TWEPP web page**
    - https://indico.cern.ch/event/1255624/page/28781-proceedings-instruction-for-authors
  - **review will be strict**
    - 2 rounds of review
      - do not waste 1 round with insufficient formatting, structure and writing style

Proceeding recommendations

- Describe specifications and implementation challenges arising from these specifications
- Use quantitative (numbers) statements, comparisons and performance figures
  - and do not give statements that a given parameter needs to be high or low
- Limit introduction to relevant information to work you describe in the paper
  - Repetition of standards phrases about the LHC luminosity upgrade might only be useful if information is set in direct context to your work
- Describe work/challenge/complexity so that it can be understood by a scientist outside your field of competence
  - in contrast to writing an experiment collaboration note
- Describe why your work is worth being presented at a scientific/technical workshop
- Describe challenges/difficulties during implementation and how they were solved or why not
- Check quality of formatting, language and style

Recommendations

- **TWEPP → mixture between scientific conference and workshop**
  - **not a collaboration week**
    - A scientific/technical paper is not a progress report for your collaboration
  - **Provide clear, honest contributions**
    - Highlight what was so difficult
    - How you solved it and what you would do differently next time
- **Do not start the paper with: "The *astronomical* beam luminosity of HL-LHC requires that…"**
    - At this point, everybody in this community knows about the context!
- **Proper writing takes time**
- **The reviewer is NOT your proof corrector**
    - At least one senior author reviews your manuscript before submission and ALL signatories have read the paper and have commented on it



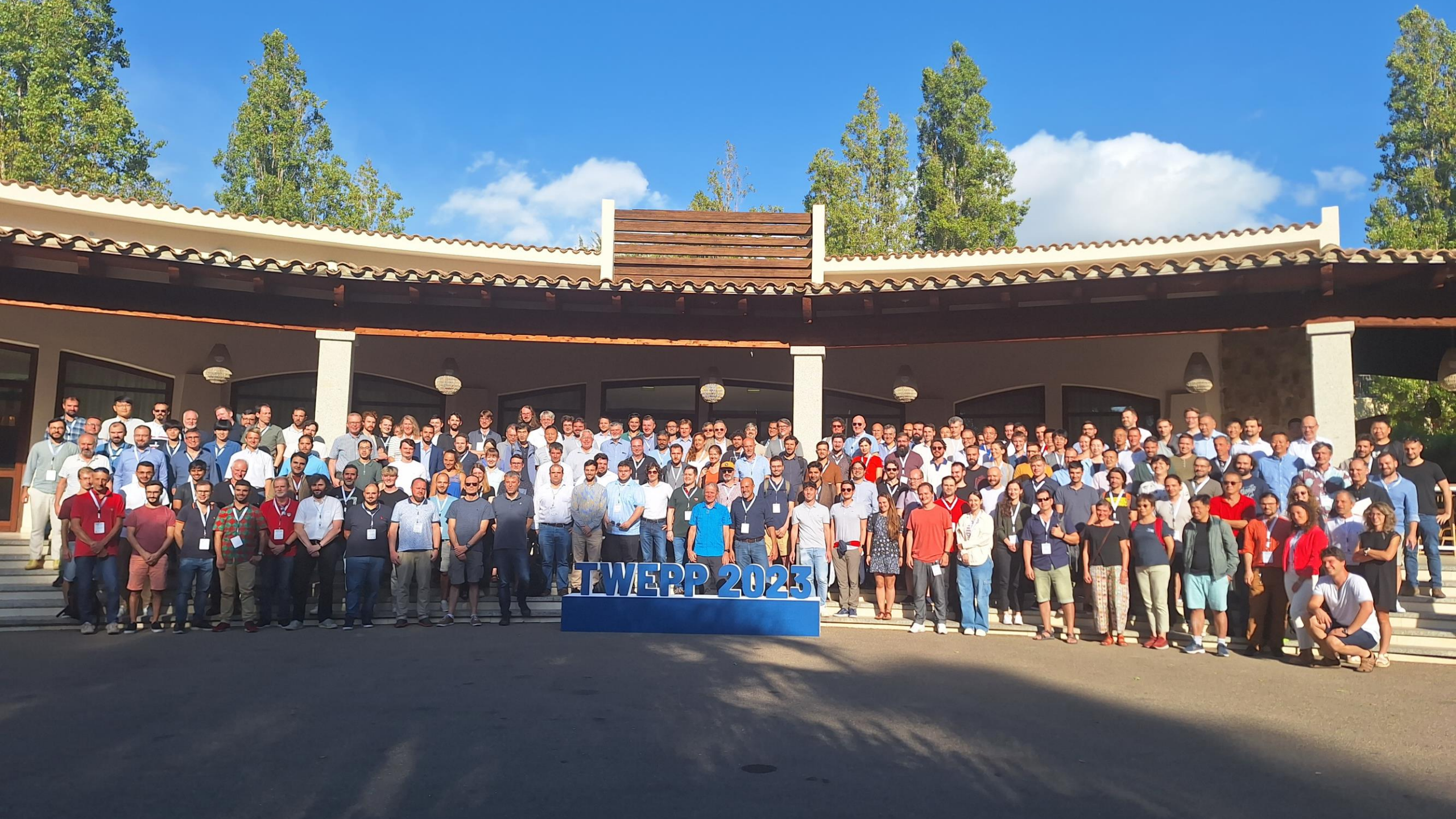
Presentations awards

Poster and Oral awards

- ASIC
  - 33 The Monolithic Stitched Sensor (MOSS) Prototype for the ALICE ITS3 and First Test Results
  - 151 Dual use driver for high speed links transmitters in the future high energy physics experiments
  - 126 Design and Characterization of a precision tunable time delay integrated circuit.
  - 55 A simulation methodology for establishing IR-drop-induced clock jitter for high precision timing ASICs
- LOGIC
  - 78 FLX-182, the hardware platform for ATLAS readout during High Luminosity LHC
  - 123 SystemC framework for architecture modelling of electronic systems in future particle detectors
- MODULES
  - 85 The Trigger & Data Acquisition interface module of the Tile Calorimeter for the ATLAS Phase- II Upgrade
  - 218 Lessons from integrating CMS Phase-2 back-end electronics and first results from Serenity-S1, a production optimised ATCA blade

Poster and Oral awards

- OPTO
  - 142 Test Bench of a 100G Radiation Hardened Link for Future Particle Accelerators
- PRODUCTION
  - 160 Overview of the production and qualification tests of the lpGBT
- RADIATION
  - 144 Prototype measurement results in a 65nm technology and TCAD simulations towards more radiation tolerant monolithic pixel sensors
- SYSTEM
  - 26 ALICE ITS3: a bent stitched MAPS-based vertex detector
  - 198 From 3D to 5D tracking: SMX ASIC-based Double-Sided Micro-Strip detectors for comprehensive space, time, and energy measurements
- TRIGGER
  - 81 A full-function Global Common Module (GCM) prototype for ATLAS Phase-II upgrade


TWEPP 2023

Questionaire:
https://indico.cern.ch/event/1255624/surveys/4159