



**Farewell from
BTTB9!**

A challenging time for all of us ...

**We highly appreciate
your support,
your contribution,
your questions,
your time!**



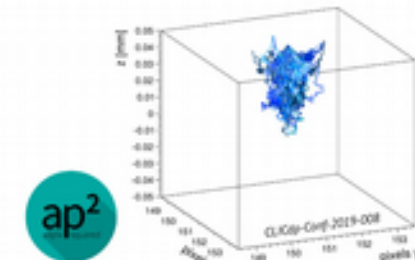
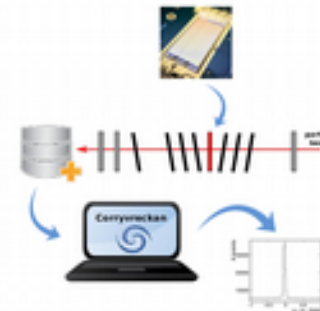
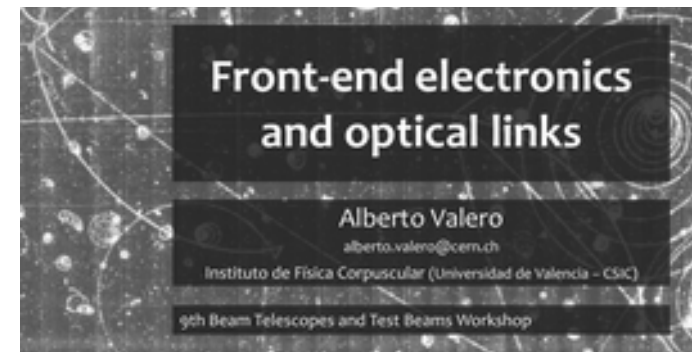
... but that did not stop us :D

Over 180
registrants

50 contributions

3 lectures

3 tutorials



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**Over 180
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**Online Welcome
Reception**

**Virtual
City Tour**

Pub Quiz

**Interactive
Workshop photo**

**Coffee
Breaks**

Lectures and talks

Electron test beams

- most of the test facilities use secondary or tertiary electron beams

Test beam @ ELSA

- primary electron beam

THE MYSTERY OF DARK MATTER

- The visible matter alone is not able to explain some astrophysical and cosmological phenomena
- Rotation velocity of spiral galaxies
- Gravitational lensing → Bullet Cluster

System Overview

- System on Chip (SoC) Processing System (PS) runs Linux, user connects via ssh / Ethernet
- SoC Programmable Logic (PL) runs detector control and data processing firmware
- Periphery CaR board provides resources and physical interface between detector and detector
- detector-specific chip (containing detector additional DAQ PC req!)

CERN Schedule before Corona (Jan. 2020) and one Year later

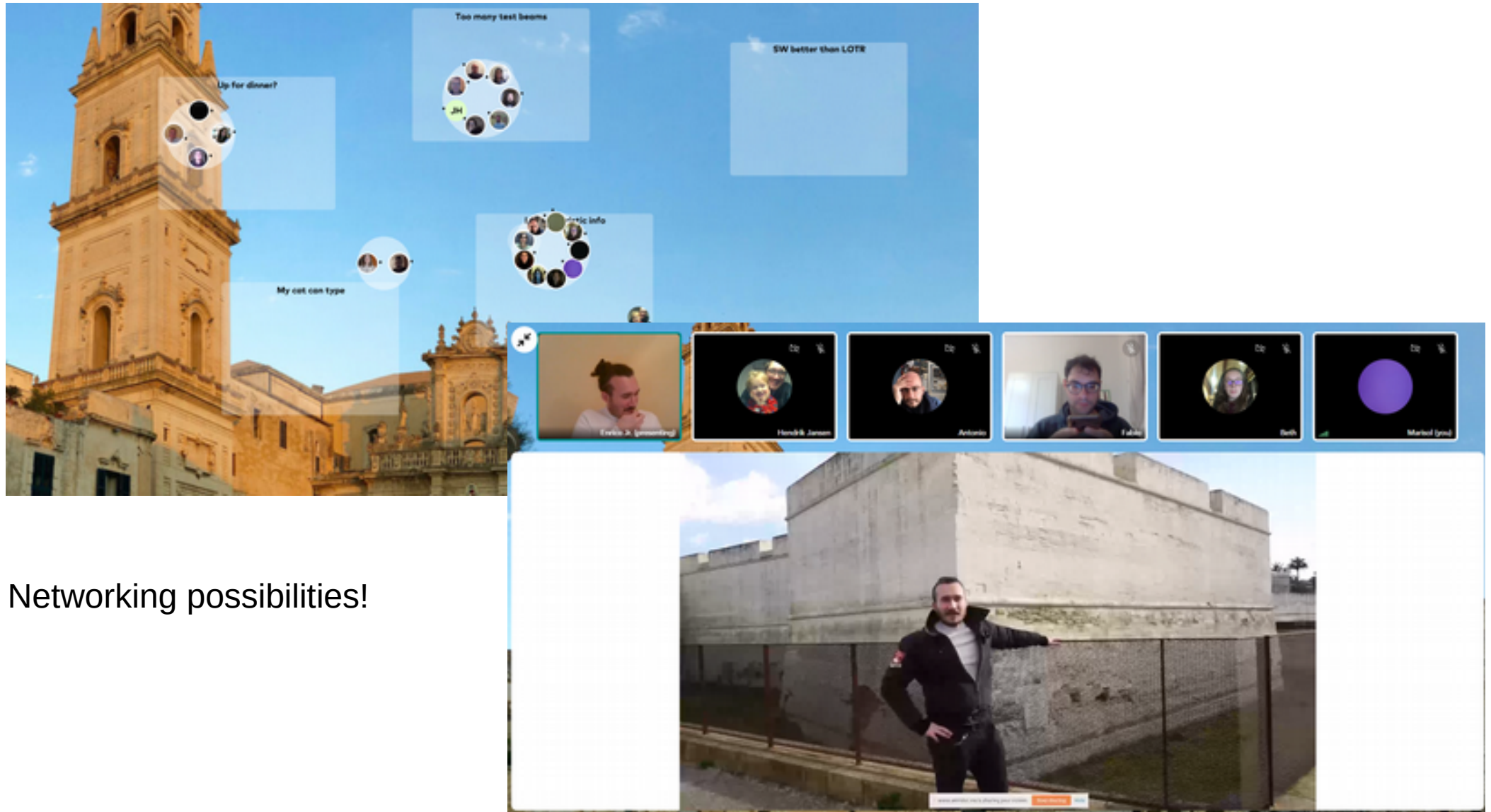
Test-Beam facility at Strasbourg

CYRIL Customized gate to Networks / Management

- Beam energy** : 16-25 MeV protons
→ large energy deposition (~11-MIP)
→ range in Silicon: about 2 mm
- Bunch clock frequency** : 85 MHz
→ reduced to 42.5 MHz by a "flicker"
→ close to LHC clock
- High intensities** : up to 100 nA
→ High rate (up to ~ 6 × 10¹¹ protons/s)
- Beam spot** : 2 mm to 30 mm or

We learnt a lot over the last three days!

Welcome reception on Piazza del Duomo



Networking possibilities!

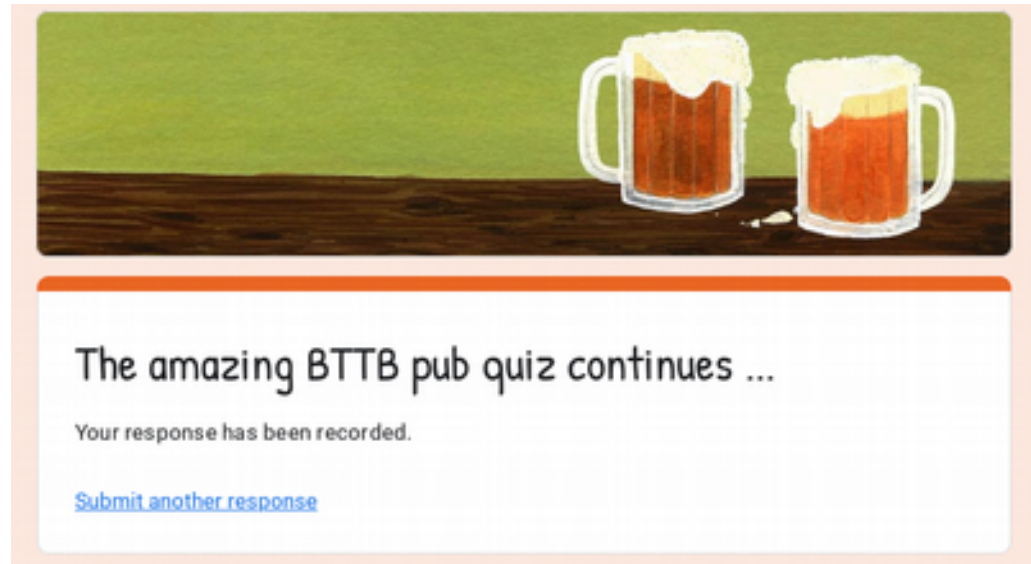
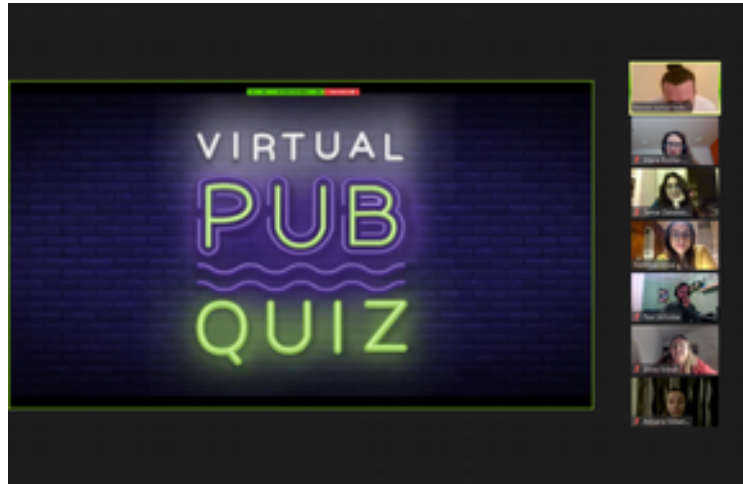
Virtual City Tour



Almost as if we have been there :D

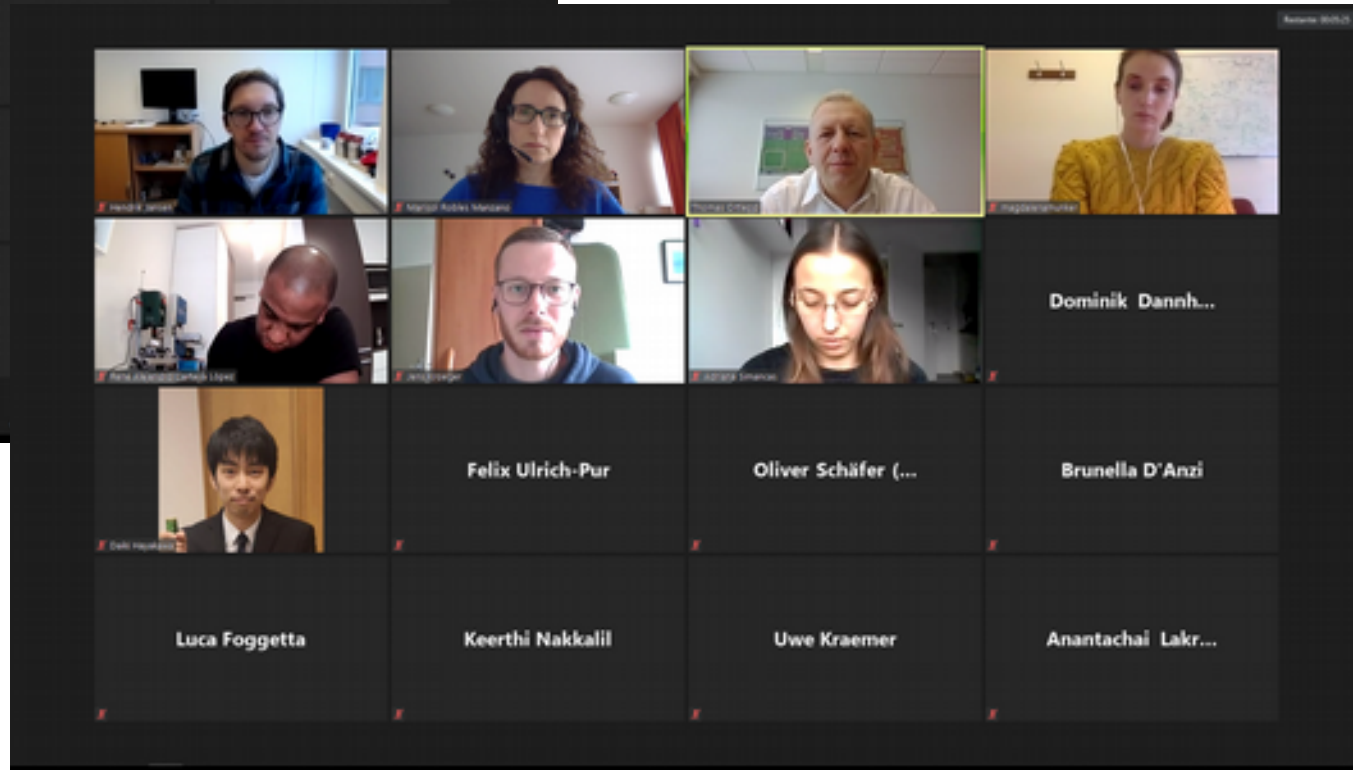
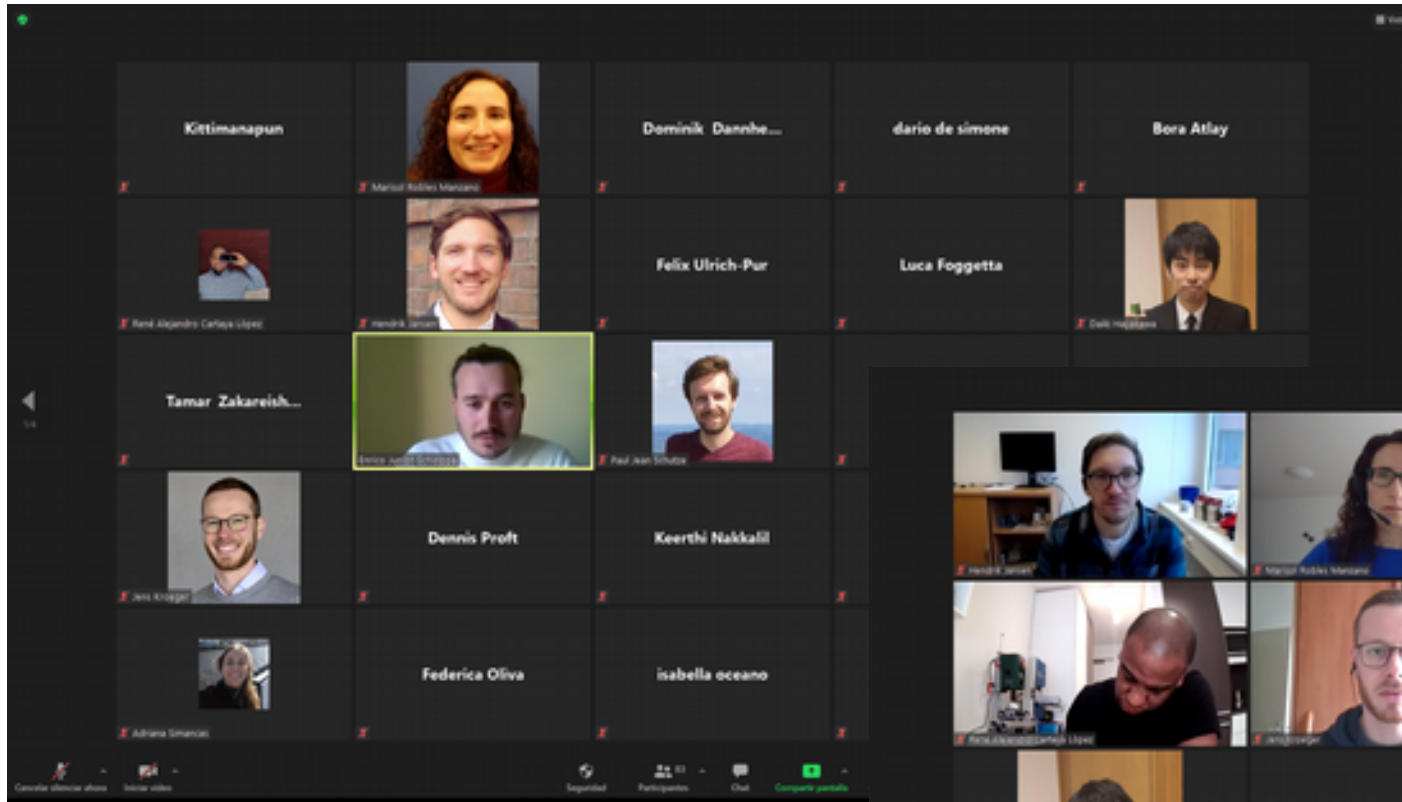


Pub Quiz



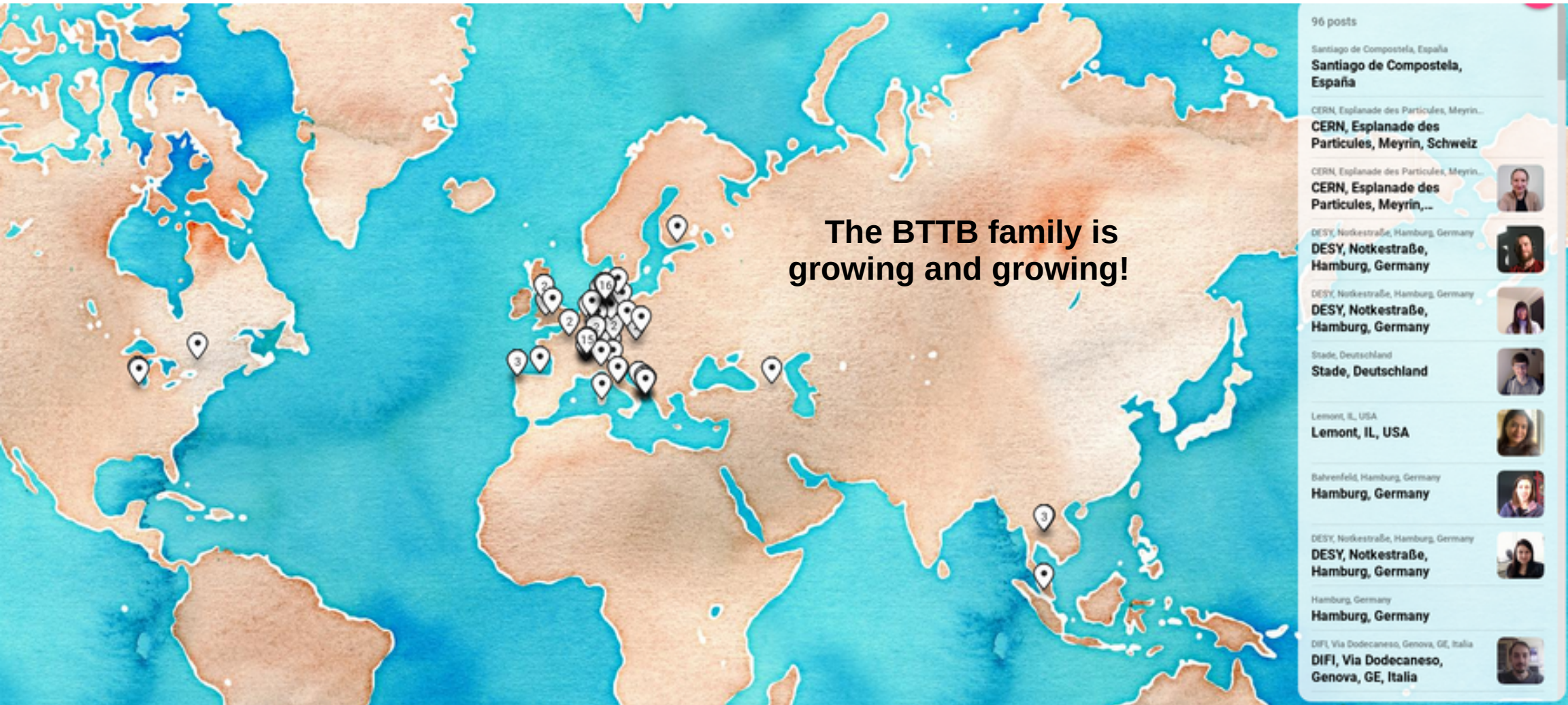
We learnt even more, great fun !!
Name an animal with larger eyes than brain !?

Coffee Breaks



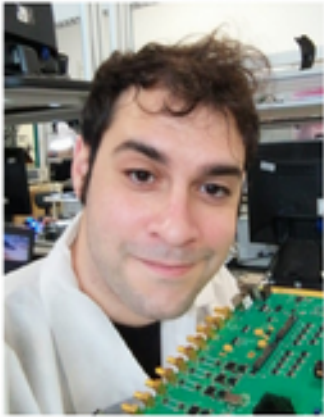
Further discussion with the lecturers!

Interactive Workshop Photo



From Present to Future

Big applause for the “local” team



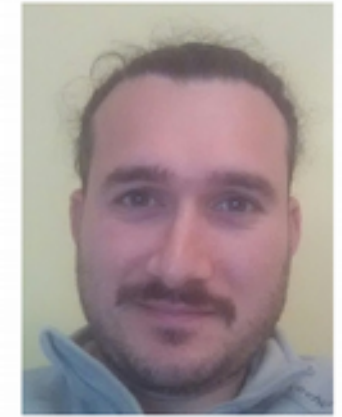
Fabio



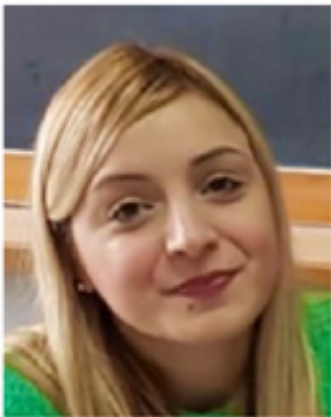
Alessandro



Laura



Enrico



Margherita



Federica

Isabella



Antonio

The Future – BTTB10 in Lecce



The Future – BTTB10 in Lecce

