



Report from the EURO-LABS Governing Board

Edda Gschwendtner, CERN

2nd Annual Meeting of EURO-LABS, 9 – 11 October 2023, Krakow

Agenda

Governing Board Meeting



Wednesday, October 11th, 2023
h. 8:15-9:30

Venue:
Auditorium Maximum,
Jagiellonian University, Krakow

Agenda

Welcome by Chairperson Edda Gschwendtner (5 min.)
Adoption of the Agenda 3min
An Overview/highlights on the activities of the first year: Scientific Coordinator Navin Alahari (15+5min)
Presentation of the administrative activities: Project coordinator Paolo Giacomelli (20+10 min)
Update on the proposed minor redistribution in the Financial Tables: Paolo Giacomelli (5 min)
Next Annual Meeting: CERN, October 2024: Scientific Coordinator (5 min)
AoB



A few Technical/Scientific Synergies

measurement of ^{237}Np at CNA-AMS after commissioning.
Study of the impact of radioactive dumping on seaweed samples (d) collected close to Gothenburg (Baltic Sea).

The goal of irradiation campaign was to irradiate the FEE, low-voltage power supply (LVPS) and FPGA with 50MeV protons up to a dose of 0.76Gy and 0.71Gy respectively, equating to 2-10 years in space (depending on the shielding). (Protons)
Also done at GANIL (but the users pay, so not in EURO-LABS) (Heavy ions)

Nuclear clock

Study oxidation of sulfur containing peptides and identify the final products. WP3
Damage induced by proton beam irradiation of cellulose-based materials WP2

WP3 HiRadMat facility :recreating a laboratory analogue of ultra-relativistic blazar-induced pair jets propagating into the intergalactic tenuous plasma answering the question

Given that a cascade of GeV inverse-Compton scattered photons is not observed from blazar's jets, our results imply that such an absence must be the related to the presence of intervening magnetic fields in the intergalactic plasma of primordial origin.

WP2 Nuclear Astrophysics stable + Radioactive ion beams
WP2 OECD-NEA High Priority Request List ^{167}Er NTOF
Capture cross sections of Er astrophysics + medicine

WP4 provide access to conditions for Higgs factory detectors:
Science for tomorrow

➔ Getting into full swing towards scientific and technical results!

Report from the Scientific Coordinator, Navin



- Service improvements:
 - WP2: Flash radiotherapy: delivery of ultra-high dose rates of radiation (>40 Gy/s)
 - CLEAR new version of handling C-robot, design of new beam-line completed.
- Dissemination:
 - Website fully functioning
 - 14 videos
 - Training: systems in place. Next one: first week of June 2024 at CERN!
 - → Planned: newsletter
 - → further videos to be done
 - → Provide to PO the talks related to EURO-LABS to be put on website.
 - → Urgently: need outreach done by facilities.
- Diversity:
 - 27% of women.
 - → Access for reduced mobility
- Machine Learning:
 - ML to improve beam quality, transport efficiency and reproducibility. → toolkit
- Open Science
 - Getting started!
- Theo4Exp, ECT*

Report from Project Coordinator, Paolo

- Project office team well set up
- Summary of Transnational Access reimbursement, the monitoring status of projects, website, use of resources.
- P1 Report!
- Budget redistribution
 - Project office fully committed to have this swiftly done.
 - Start after P1 report submitted, ie beginning of November
 - Some constraints from FC to have this done by end 2023.

Conclusion/Take Away

- The EURO-LABS project as a whole is running as planned → Challenges given by the EU have been taken up and will be further realized as the project moves on.
- ALL deliverables so far on time.
- Promising scientific and technical results in the first year.
- Service improvements going very well.
- Hiring going ~okay: relevant candidates in competitive fields
- Training of youngsters on the way to CERN + more
- Annual report → technical part to be ready by Monday!
- Finance: follow-up for the respective RIs and complete budget redistribution.
- The next Governing board meeting will be crucial to make sure that the final stages are fully solid.
- Next Annual Meeting at CERN in October/November 2024

Many Thanks for an Excellently Organized Annual Meeting!!

