



# Online welcome meeting

## 1<sup>st</sup> July 2024

Nicolas DELERUE / CNRS  
with Phil Burrows/Oxford, Bob Holland/ESI,  
Elias Metral/CERN, Louis Rinolfi/ESI, Valeriia  
Starovoitova/IAEA, Maurizio Vretenar/CERN

# The I.FAST project

- I.FAST = Innovation Fostering in Accelerator Science and Technology
- <https://ifast-project.eu/home>
- 49 partners (research organizations, industry,...) including: CERN, CNRS (France), University of Oxford and other UK Universities, INFN (Italy), DESY, GSI (Germany), ESI,...
- Gathering top researchers in the field of particle accelerators
- Looking at innovative applications of accelerator technology

# I.FAST Challenge Based Innovation



- The I. FAST CBI is one of the many tasks within the I. FAST Project.
- The aim of the challenge:
- Use accelerator technology to address a given problem:  
“Accelerators for health: imaging and new treatment modalities”
- Can you suggest innovative use of accelerator technology to address the challenge?

# The process



- To help you better understand accelerators and the challenge, there will be seminars on both topics.
- There is also some material at <http://www.ifast-cbi.particle-accelerators.eu/material-about-particle-accelerators/>
- Feel free to contact the seminar speakers for additional details about their presentation.

# The program



- The online seminar program is on indico:  
<https://indico.cern.ch/category/17672/>
- The in-person seminars program will be posted soon on indico.
- In addition to the seminars there is:
  - Plenty of time for collaborative work
  - A visit of CERN
  - A visit of Annecy
  - Two “conferences”

# Seminars

- There will be 4 online seminars organised before the challenge (all at 17:00 Geneva time):
  - Thursday July 4th, 17h, Willy Mondelaers, "Small particle accelerators and their applications in medicine and industry"
  - Tuesday July 9th, 17h, Joao Seco, "Introduction to Radiation Biology"
  - Thursday 11th July, 17h, Ugo Amaldi, "History of hadrontherapy"
  - Tuesday July 16th, 17h, Christine Darve, "Accelerating Medical Knowledge Sharing for a Sustainable Future"
  - Thursday July 18th, 17h, Industry forum, Several industrial partners will make a short presentation on their activity on medical accelerators.
- *Please mute your microphone during the seminars.*
- Feel free to ask questions at the end. Even if the question seems trivial, it is not a problem to ask it!

# Collaborative spirit



- Although this is a challenge, it is important to keep a collaborative spirit between teams.
- In the accelerator world, everyone tries the best for his/her facility but we also go to other facilities to help at critical times.
- If you have information that may be relevant to another team. We encourage you to pass it to them.

# Who are you? / Teams



- You should have received an email with your team number.
- You will have a dedicated meeting this week to meet your team (you have received an email with the time/date).
- Each team is balanced (based on the answers you gave in the application forms) in gender, in academic training (physicists, engineers, life scientists, medicine students,...) and in country of study.

# Hosting

- The challenge will take place at the European Scientific Institute (ESI) in Archamps near Geneva: <https://www.esi-archamps.eu/>
- ESI has strong experience in hosting scientific schools
- The ESI team is taking care of the logistics, accommodation and travel arrangements for the participants.
- Presentation after this one.



# Outlook

- Looking forward to the I.FAST CBI 2024!
- See you in Archamps on July 23<sup>rd</sup>!

# iFAST



This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under GA No 101004730.