

Closing Remarks, Statistics HITRIplus Clinical School 3-7 July 2023

YIOTA FOKA (GSI, SEEIIST)

FOR THE ORGANISERS



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101008548



3rd HITRIplus School



SPECIALIZED COURSE ON CLINICAL ASPECTS OF HEAVY ION THERAPY RESEARCH

3 - 7 July 2023 ONLINE



Specialized Course on Clinical Aspects of Heavy Ion Therapy Research

3-7 Jul 2023

Online

Europe/Zurich timezone

Home Page: <https://indico.cern.ch/event/1248018/>

Home

Organizers

Participant List

537 participants **Fist Day**

Participant List

Last Day 594 participants

Increase of registrants relative to starting date

- Participants spreading the word
- Social media posts

150-180 present at any given time,
higher in the afternoon





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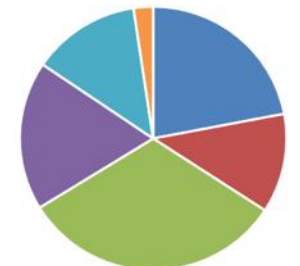
Participant List

Last Day 594 participants

Updated statistics from polls in progress

Highest Degree (500 registrants)

- 62 Medical Doctors
- 112 PhD
- 163 Master
- 93 Bachelor
- 67 Undergraduate
- 12 Other



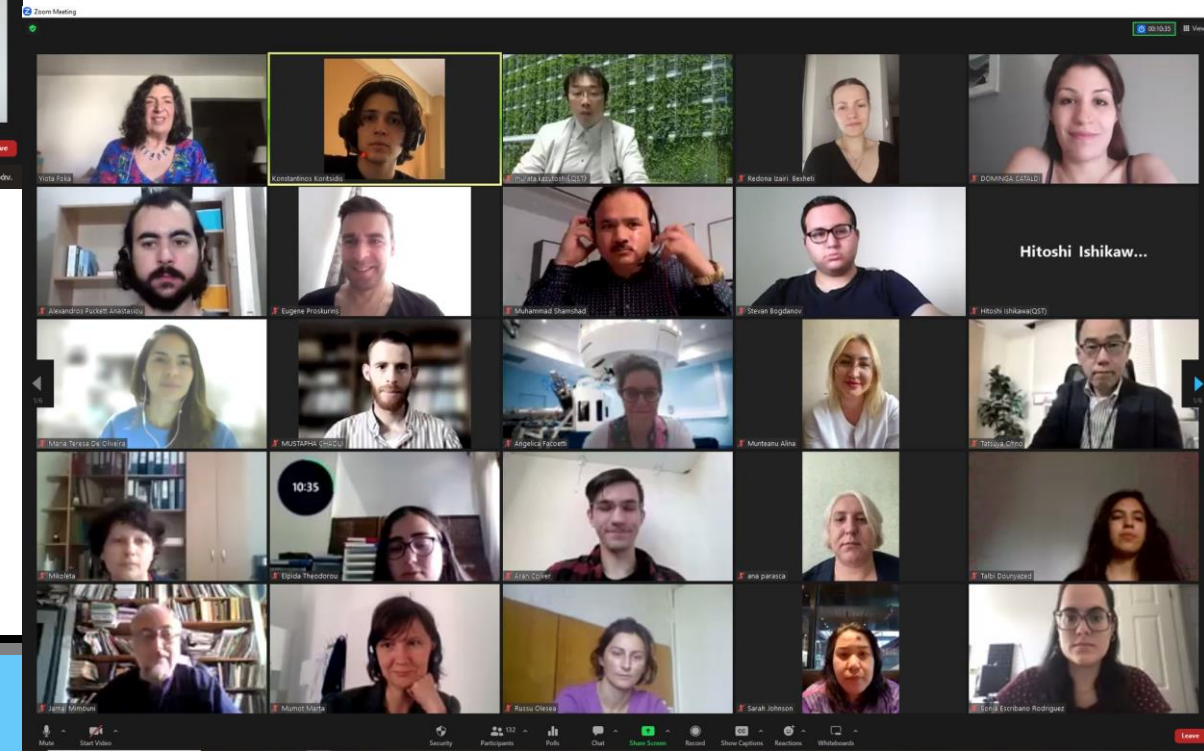
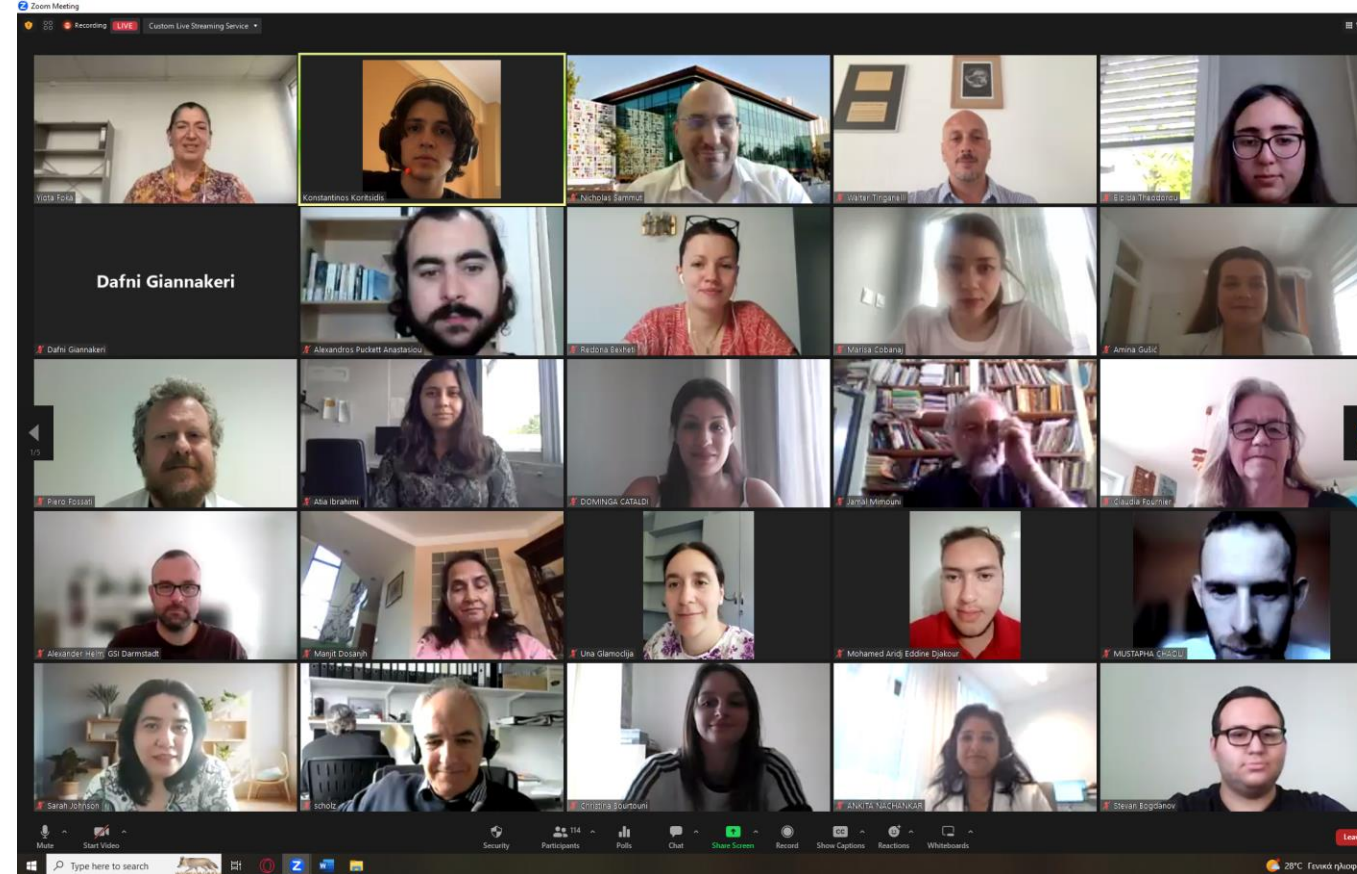
■ PhD ■ MD ■ MSc ■ BSc ■ HighSchool/A-levels ■ Other



Group Photos

Home Page: <https://indico.cern.ch/event/1248018/>

School Registrants Lists are used to inform on HITRIplus events. There is always “unsubscribe” possibility or contact the organisers.



**Consent via Registration Forms
pls contact the organizers if you wish to withdraw them**





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Post Reach - 1753

Post engagement - 420

FACEBOOK

<https://www.facebook.com/profile.php?id=100090779213801>



8:22 3rd HITRIplus School 2023 1

8:23 3rd HITRIplus School 2023 1

Posts About Photos Mentions

3rd HITRIplus School 2023 1 d

At the end of todays session we had a career fair event for The European Network for Light Ion Hadron Therapy (ENLIGHT) in the Spatia... See more

5th July 2023. Another successful session thanks to everyone! As always a big thank you to our speake... See more

Boost this post to reach up to 829 more people if you spend €10. Boost post

You and 3 others 4 shares

Love Comment Share

Boost this post to reach up to 829 more people if you spend €10. Boost post

You, Evangelia Palaiomiliti and 4 others 5 shares

Love Comment Share



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Presentations and Recordings

Recordings: <https://indico.cern.ch/event/1248018/page/30139-lecture-recording-on-youtube>

Recordings available via HITRIplus Youtube Channel for the ones at different time zones

<https://www.youtube.com/@hitriplus9177/about>

except for some lectures, as requested

Lecture Recording on Youtube

The lecture recordings will be uploaded to the [HITRIplus YouTube Channel](#) and to each individual lecture below (the list will be update):

Monday 3rd July

Session 1 - Radiobiology.

Introductory remarks (1)

Introductory remarks (2)

Radiobiology and General Introduction – Walter Tinganelli (GSI)

RBE Models – Piero Fossati (MedAustron)

Immunological Effects – Alexander Helm (GSI)

Hypoxia – Piero Fossati (MedAustron)



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Certificate of Attendance

Lecture Recording on
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Presentations and Recordings

Timetable: <https://indico.cern.ch/event/1280303/>

Presentations in indico Timetable together with links to recordings in the HITRIplus Youtube Channel except for some lectures, as requested

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MONDAY, 3 JULY

08:20 → 08:30 HITRIplus VIDEO
[HITRIplus Video](#)

08:30 → 08:45 Introductory remarks
 Speakers: Nicholas Sammut (University of Malta), Sandro Rossi (Fondazione CNAO), Yiota Foka (GSI - Helmholtzzentrum für Schwerionenforschung)
[Certificate Slide.pdf](#) [Certificate Slide.pptx](#) [Introductory remarks...](#) [Introductory remarks...](#) [YF-Hitriplus-CLINICA...](#)
[YF-Hitriplus-CLINICA...](#)

08:45 → 09:45 Radiobiology and General Introduction
 Speaker: Walter Tinganelli (GSI)
[Radiobiology and Ge...](#) [Tinganelli_Hitriplus...](#) [Tinganelli_Hitriplus...](#)

09:45 → 10:30 RBE Models
 Speaker: Piero Fossati (MedAustron)
[Fossati RBE.pdf](#) [Fossati RBE.ppt](#) [RBE Models - Piero ...](#)



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Certificate-of-Attendance

Home Page: <https://indico.cern.ch/event/1248018/>

195 requests

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Certificate of Attendance INFO via

- the web page
<https://indico.cern.ch/event/1248018/page/29246-certificate-of-attendance>
- the presentation of N. Sammut

Requests via dedicated form Evaluation based on

- zoom
- polls
-

Certificate of Attendance

The school is organised in the framework of the HITRIplus EU-funded project, and therefore, the agenda of lectures and networking activities are planned accordingly. However, provisions are made to facilitate world-wide participation (for example via accessing the lectures recordings through the HITRIplus YouTube channel <https://www.youtube.com/@hitriplus9177/about> etc

Participants interested in receiving a certificate of attendance are asked to submit a request via the form:
https://docs.google.com/forms/d/e/1FAIpQLSdFlvQuenOiDTrY9fVyD2gb_zolapFdf0nKpvzkDa3spd46tA/viewform

A certificate of attendance will be granted to participants who attend 80% of the session's overall. This is going to be verified via the participant Zoom IDs. Therefore, participants who intend to request a certificate of attendance are advised to take this request into account and avoid following the meetings via webcast.



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Questions

[Shared document to insert questions](https://docs.google.com/document/d/1obBw8Yk1jpEXqsGSkjG5X57KyNv-Qb8VAeUwh_KKczM/edit?usp=share_link)

[https://docs.google.com/document/d/1obBw8Yk1jpEXqsGSkjG5X57KyNv-Qb8VAeUwh_KKczM/edit?usp=share link](https://docs.google.com/document/d/1obBw8Yk1jpEXqsGSkjG5X57KyNv-Qb8VAeUwh_KKczM/edit?usp=share_link)

Despite the large number of attendees enough interaction and Q&A

- via shared doc for questions
- typical zoom chat
- raise hand

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QUESTIONS FOR EXPERTS-ALL EXPERTS

Αρχείο Επεξεργασία Προβολή Εισαγωγή Μορφή Εργαλεία Επεκτάσεις ...

100% Κανονικό ... Arial 11

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Please type here your questions

**108 questions
in shared doc
discussed**

from the European Union's Horizon 2020
under grant agreement No 101008548



Specialized Course on Clinical Aspects of Heavy Ion Therapy Research

3-7 July 2023
Evening Networking
From 17:00



Networking and Career Fair Events

Link: <https://app.spatial.chat/s/IonTherapyCourse>

MON	Students ONLY 17:00-18:00
TUE	Career Fair 18:00-19:00 Speaker: MedAustron and CNAO
WED	ENLIGHT (and students day) 18:00-19:00 Speaker: Manjit Dosanjh, Univ. of Oxford
THU	Career Fair 18:00-19:00 Speaker: DKFZ and GSI.
FRI	Students ONLY 17:30-18:30



9 videos
plus presentations and
discussions

Despite the long days participants join the networking events every day for Students-Only and Career Fairs
Thanks to the HITRIplus school assistants for preparation and the ones that animates them



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**Specialized Course on
Clinical Aspects of Heavy Ion
Therapy Research**

3-7 July 2023
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From 17:00




HITRI
Heavy Ion Therapy Research Integration

MON Students ONLY
17:00-18:00

TUE Career Fair
18:00-19:00
Speaker: MedAustron and CNAO

WED ENLIGHT (and students day)
18:00-19:00
Speaker: Manjit Dosanjh, Univ. of Oxford

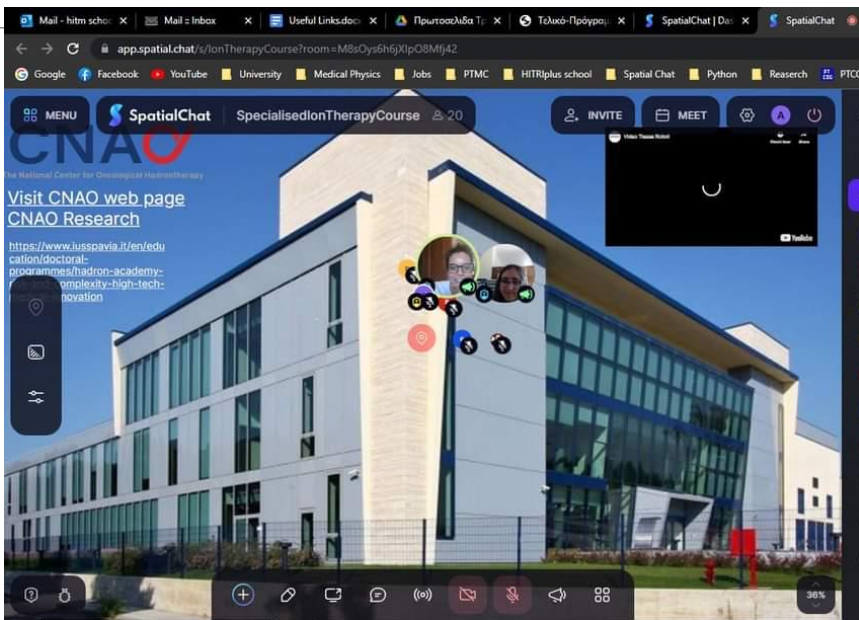
THU Career Fair
18:00-19:00
Speaker: DKFZ and GSI.

FRI Students ONLY
17:30-18:30



Networking and Career Fair Events

Link: <https://app.spatial.chat/s/IonTherapyCourse>



Thanks to
- MedAustron: Pierro Fossati

Thanks to
- CNAO: Angelica Facoetti





**Specialized Course on
Clinical Aspects of Heavy Ion
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3-7 July 2023
Evening Networking
From 17:00

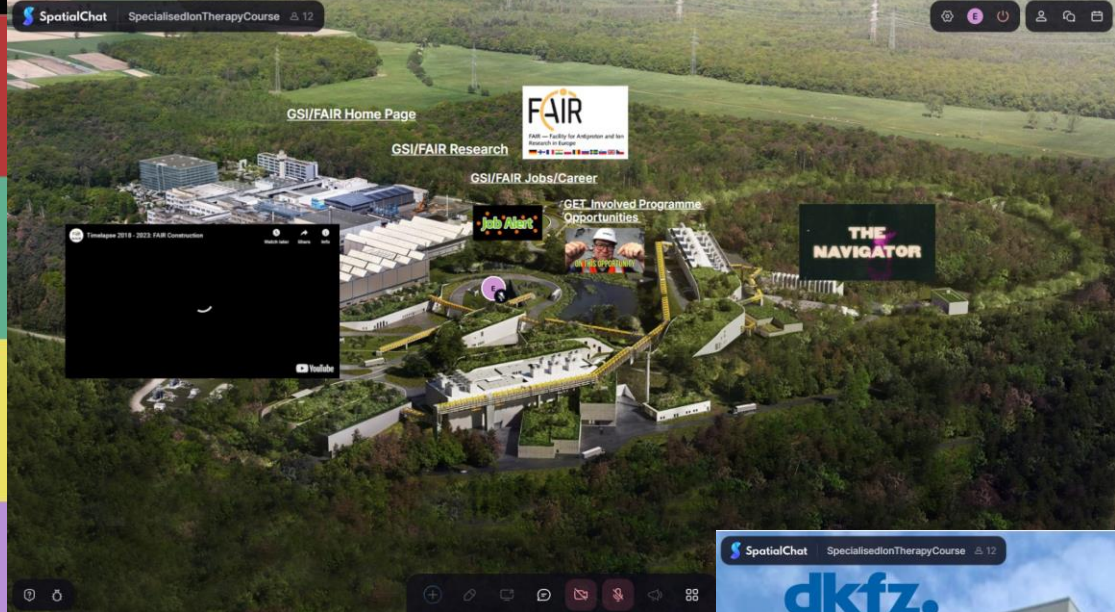



Heavy Ion Therapy Research Integration

Networking and Career Fair Events

Link: <https://app.spatial.chat/s/IonTherapyCourse>

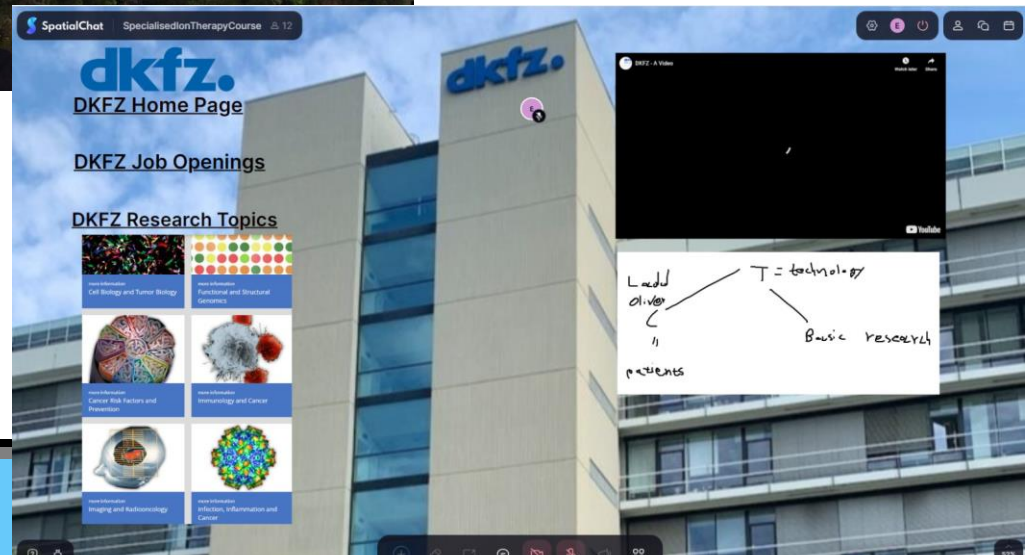
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Thanks to
- GSI : Pradeep Gosh



Thanks to DKFZ: Joao Seco and Niklas Wahl



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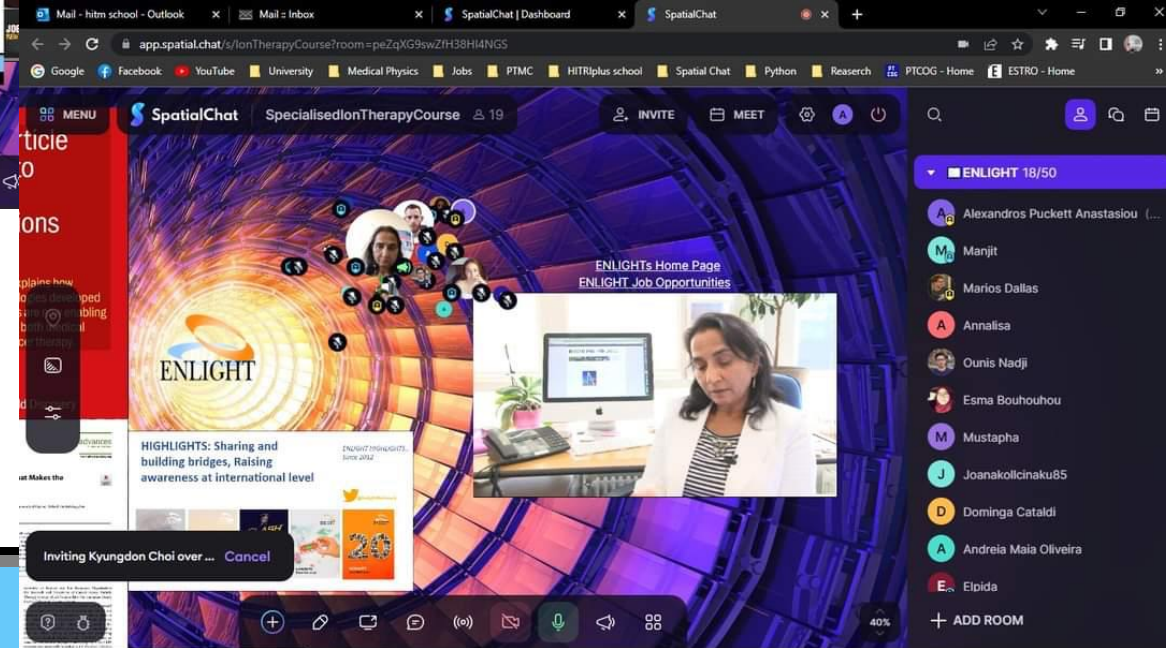
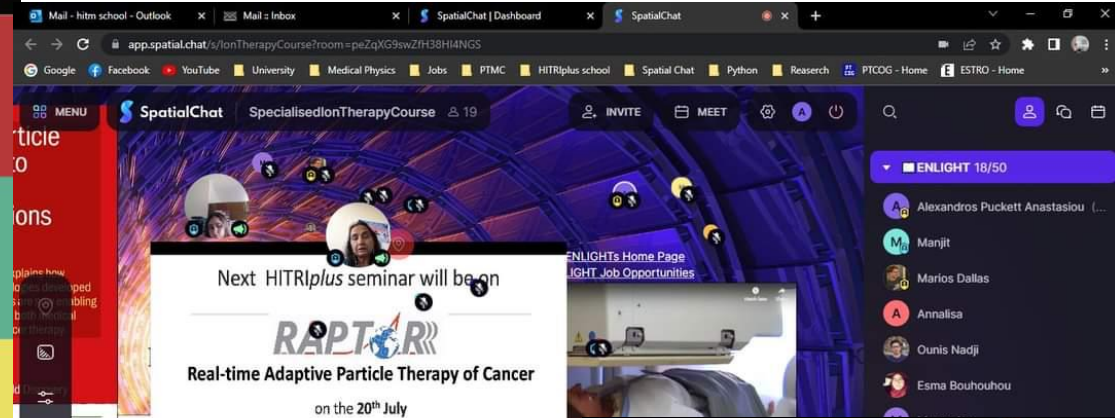
Students ONLY
17:30-18:30



Networking and Career Fair Events

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Thanks to
- ENLIGHT: Manjit Dosanjh





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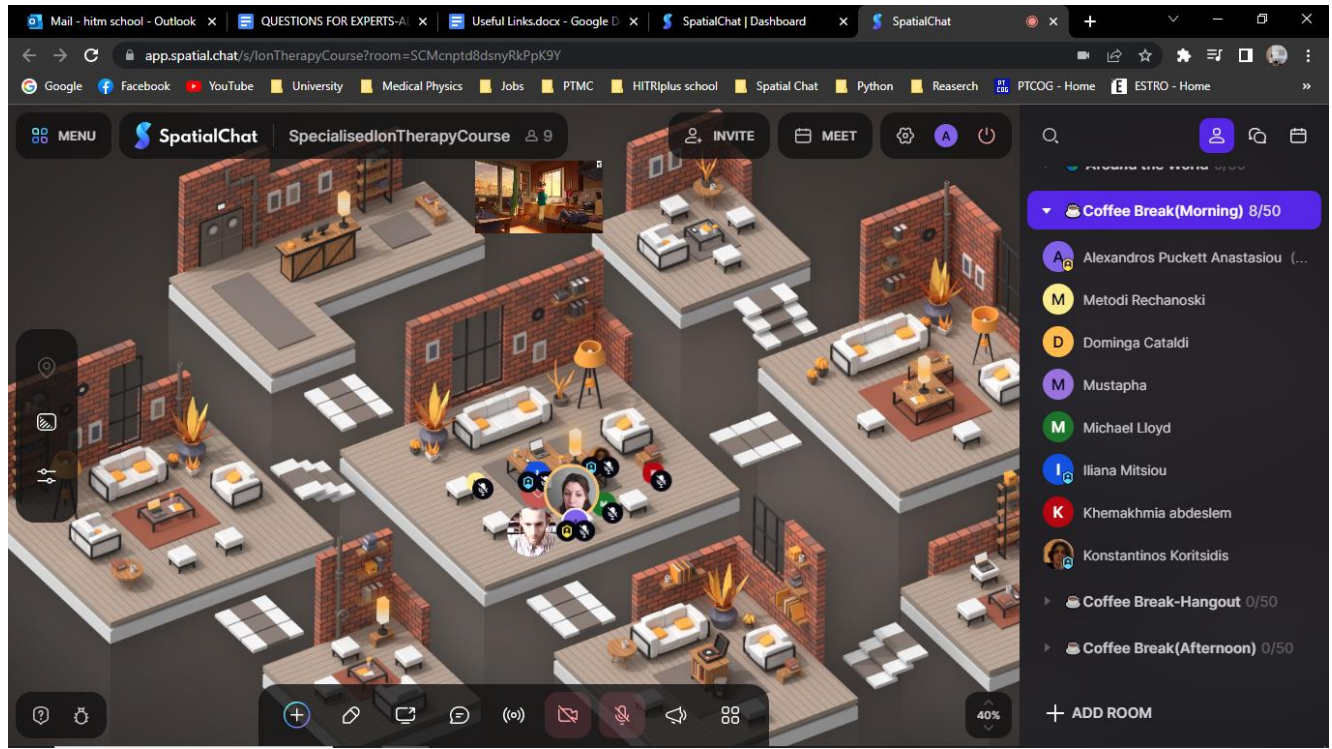



HITRI
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Thanks to HITRIplus assistants team



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Highly Specialised Lectures

Timetable: <https://indico.cern.ch/event/1280303/>

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Main Topics:

- **Radiobiology**
 - RBE Models
 - Immunological Effects
 - Hypoxia
- **Head-and-Neck**
 - Skull Base,
 - Central Nervous System
 - Salivary Gland & Paranasal Sinuses
 - Melanoma
- **Sarcoma**
 - Osteo Sarcoma
 - Chordoma and Chondrosarcoma
 - Soft Tissue
 - Ewing and Rhabdomyosarcoma
- **Prostate**
- **Liver**

World Experts mobilised by the Scientific Committee to cover all topics

Exceptional high quality informative presentations

Great appreciation from participants

Closing by SC Chair Piero Fossati

- **Pancreas**
- **Organ Motion**
 - Lung
 - Abdomen
- **Treatment Planning**
- **Re-irradiation**
 - Head and Neck
 - Central Nervous System
 - Pelvis
- **Gynae and Rare Indications**
 - Adenoid Cystic Carcinoma
 - Kidney
 - Breast
 - Paediatric
- **Innovative Methods**
 - Linear Transfer Painting
 - Spatial Fractionation
 - Integration with Immune and target Drugs
- **Present and Future Clinical Trials**

46,5 hours of lectures

Recordings available via the HITRIplus YouTube Channel for the ones at different time zones
<https://www.youtube.com/@hitriplus9177/about>

14 videos



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Hands-on Train-the-Trainer Sessions

Timetable: <https://indico.cern.ch/event/1280303/>

Hands-on: based on professional open source treatment planning toolkit matRad, developed by Heidelberg DKFZ www.matrad.org

Thanks to DKFZ: Joao Seco, Niklas Wahl, Amit Bennan

Hands-on results

Participants can deliver the results of hands-on session via email to: nicholas.sammut@um.edu.mt by Monday 10 July

This will be mentioned on the Certificate of Attendance

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VOI name	VOI type	DF	Function	B	Parameters
Liver	GAR	2	Mean Dose	100	$d^{1.0}$ 0
Heart	GAR	2	Squared Overlap	100	$d^{1.0}$ 30
Spleen	GAR	2	Squared Overlap	300	$d^{1.0}$ 15
Stomach	GAR	2	Squared Overlap	300	$d^{1.0}$ 25
Small Intestine	GAR	2	Squared Overlap	100	$d^{1.0}$ 0
Rectum	GAR	2	Squared Overlap	100	$d^{1.0}$ 45
Bladder	GAR	2	Squared Overlap	1000	$d^{1.0}$ 45
PTV	TARGET	1	Squared Deviation	1000	$d^{1.0}$ 45

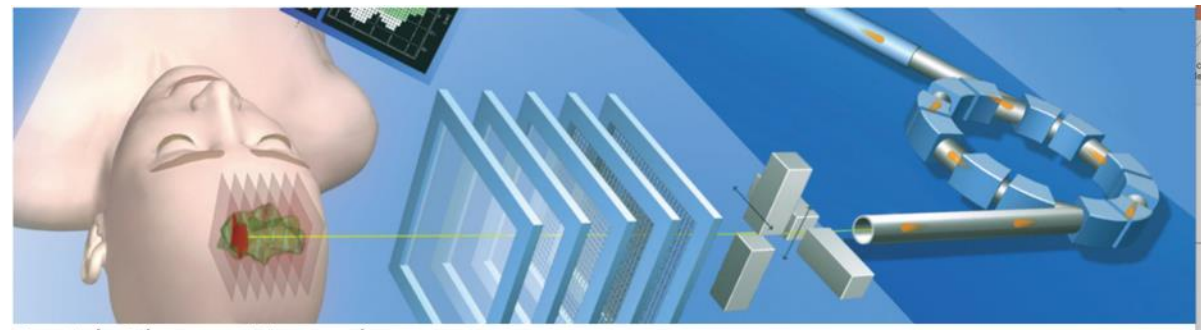


Heavy Ion Therapy Masterclass School

<https://indico.cern.ch/e/HeavyIonTherapyMasterClass>

Full week course

The HITM school is aimed at university students, early stage researchers...



Particle Therapy Masterclass

<https://indico.cern.ch/event/840212/>

One day activity

The Particle Therapy MasterClass, is aimed at high-school students (16-18)



HITRIplus schools:

<https://www.hitriplus.eu/event-calendar/>

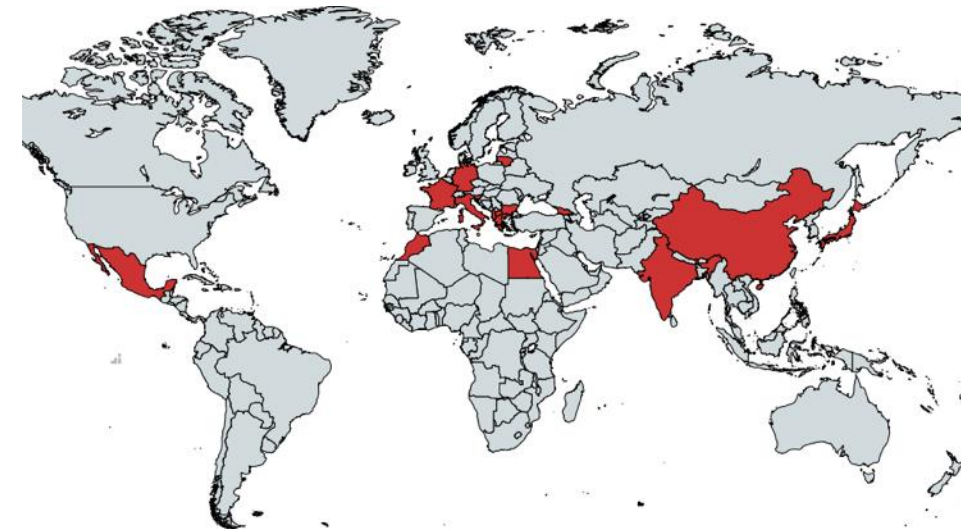
- 17-22 May 2021 <https://indico.cern.ch/event/1019104/>
- 4-8 July 2022 <https://indico.cern.ch/event/1160802/>
- 3-7 July in 2023. <https://indico.cern.ch/event/1248018/>

HITRIplus YouTube channel:

<https://www.youtube.com/@hitriplus9177/about>

PTMC 2023:

9 days, 37 institutes, 20 countries



Interesting career paths in emerging fields where often there is lack of specialised personnel



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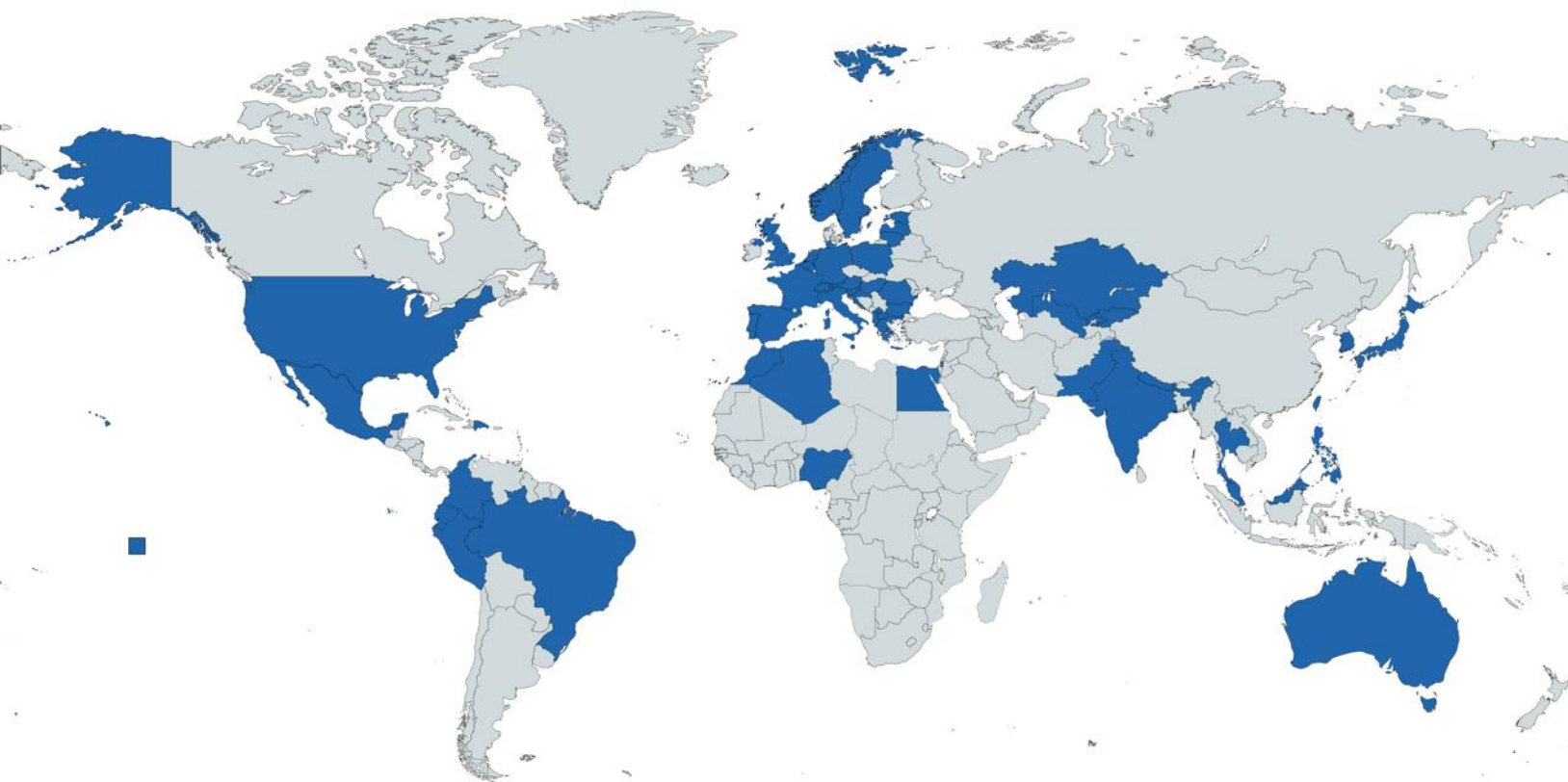
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Worldwide reach

Registrants from 40 countries

- 53 Algeria
- 36 Greece
- 35 India
- 20 N. Macedonia
-
- Malaysia, Nepal, Ecuador, Brazil



**Diversity,
sharing knowledge, know-how,
building capacity**



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Created with mapchart.net



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Expanding in Europe and beyond



European countries:

➤ 217 registrants

Non-European countries:

➤ 233 registrants

- | | | | | |
|---------------|---------------------------|------------------|------------|-------------------|
| ■ Pakistan | ■ Kyrgyzstan | ■ Italy | ■ Algeria | ■ Uzbekistan |
| ■ Nigeria | ■ Palestinian Territories | ■ Morocco | ■ India | ■ Poland |
| ■ Egypt | ■ Germany | ■ United Kingdom | ■ Malaysia | ■ Greece |
| ■ Bulgaria | ■ Ecuador | ■ Netherlands | ■ Belgium | ■ North Macedonia |
| ■ Nepal | ■ Croatia | ■ Spain | ■ Romania | ■ Malta |
| ■ Austria | ■ United States | ■ Colombia | ■ Thailand | ■ Latvia |
| ■ Switzerland | ■ Portugal | ■ Norway | ■ Slovenia | ■ France |
| ■ Peru | ■ Brazil | ■ Mexico | ■ Estonia | ■ Philippines |



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Created with mapchart.net



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Evaluation and Polls

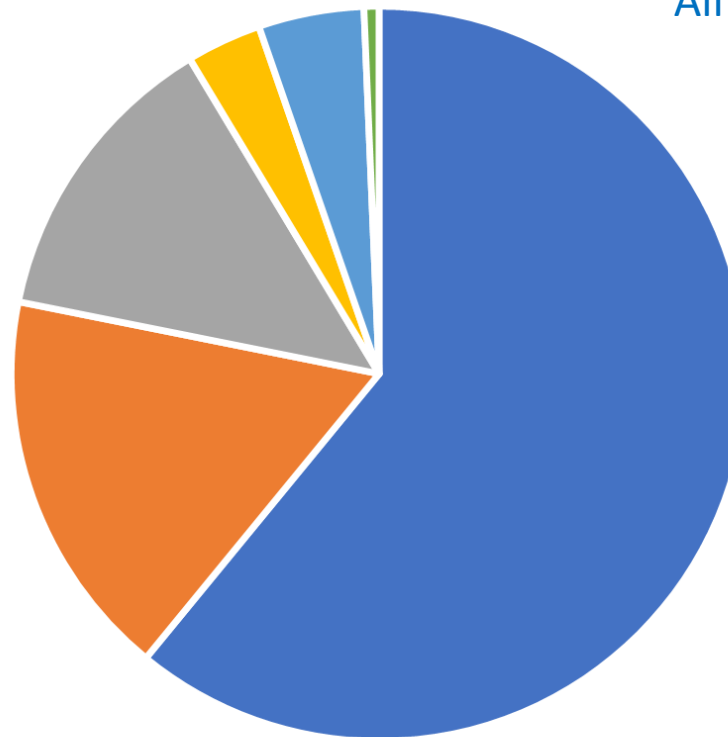
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Thanks for answering polls!

20 polls launched
Evaluation in progress

Evaluation form:
<https://forms.gle/aKG9kNovT6oy4ja68>

All data received



■ Europe ■ Asia ■ Africa ■ Australia ■ North America ■ South America



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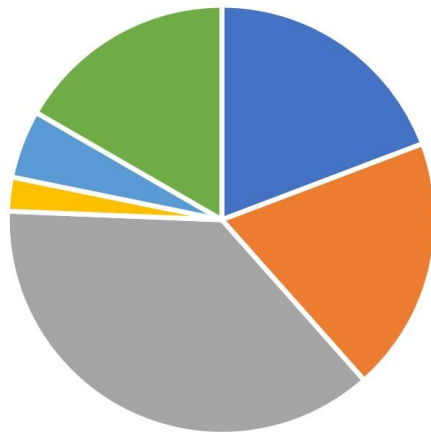
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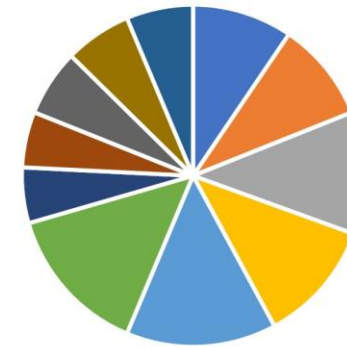
Evaluation and Polls

What is your level of expertise ?



- Ph.D. Student
- Senior Doctor
- Master program
- Junior Doctor
- Undergraduate program
- Other

Which session are you looking forward the most ?



- Session 1
- Session 2
- Session 3
- Session 4
- Session 5
- Session 6
- Session 7
- Session 8
- Session 9
- Session 10
- Session 11



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Thanks to all lecturers

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Speakers and Lecturers:

1. Jacques Balosso
2. Amelia Barcellini
3. Maria Bonora
4. Manuela Cirilli
5. Maria Rosaria Fiore
6. Yiota Foka
7. Piero Fossati
8. Razvan Galalae
9. Tiziana Golme
10. Semi Harrabi
11. Alexander Helm
12. Thomas Held
13. Bradford Hoppe
14. Rossana Ingargiola
15. Hitoshi Ishikawa
16. Reiko Imai
17. Carola Lütgendorf-Caucig
18. Shinichiro Mori
19. Silvia Molinelli

Institutes:

- ARCHADE
CNAO
CNAO
CERN
CNAO
GSI/SEEIIST
MedAustron
MedAustron
CNAO
HIT
GSI
HIT
Mayo
CNAO
QST
QST
MedAustron
QST
CNAO

20. Kazutoshi Murata
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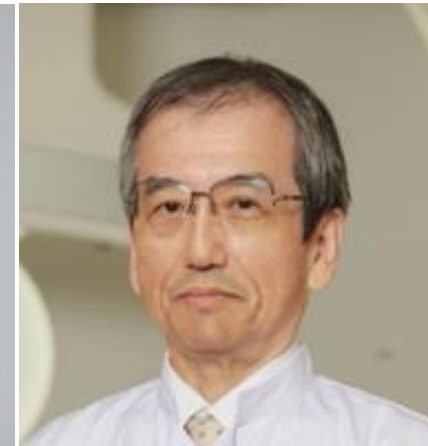
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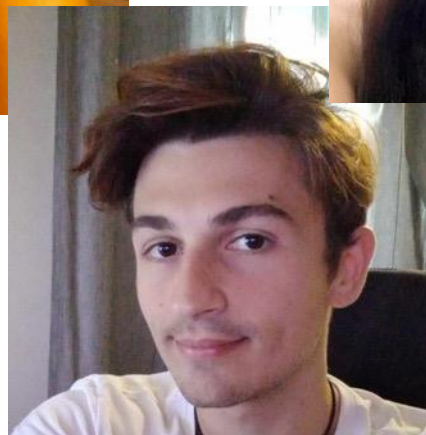
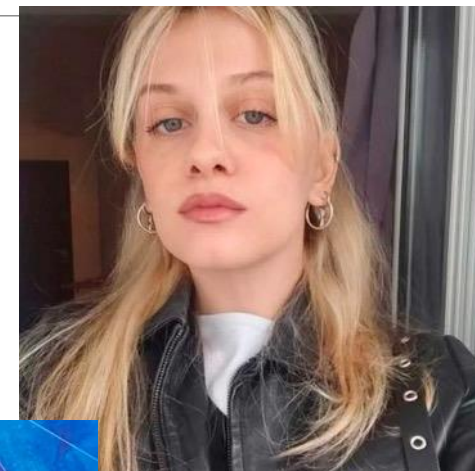
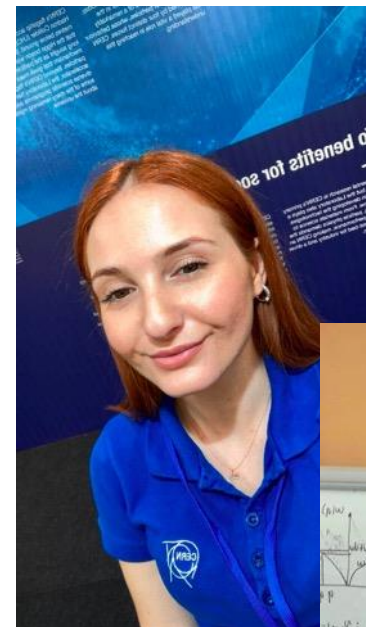
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ready to assist with any issues !

50 emails answered
by their team

An aerial architectural rendering of a modern research facility. The building features multiple levels with green roofs and large glass windows. A central courtyard area is visible, along with a large circular structure on the right side. The surrounding area includes trees, a road with cars, and a bus. The text is overlaid in the center of the image.

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