Particle Therapy Masterclass

PTMC Video Conference 15 March 2024

Friday 15 March 2024

1 SWITZERLAND, CERN

2 MEXICO, UNAM, Mexico City

3 ITALY, INFN Bologna

4 ITALY, Univ Piemonte Orientale

5 UKRAINE, V.N. Karazin Kharkiv National University, Kharkiv

6 ALGERIA, Soumia High School, Constantine

7 ALGERIA, Fadila High school, Constantine

MONTENEGRO, University of Montenegro, Podgorica

9 INDIA, NISER Bhubaneshwar





dkfz.



Mediterranean Sea

ES SS IL FAIR EMMI



PTMC Video Conference 15 March 2024

16:00 → 17:55 Video Conference: 15 March 2024

Video Conference: Particle Therapy MasterClass 15 March 2024

Friday 15 Mar 2024, 16:00 → 17:55 Europe/Zurich

online https://cern.zoom.us/i/63581336689?pwd=d09zb29BclZGZHFYRmNsRHl0RlA0UT09

Yiota Foka (GSI - Helmholtzzentrum für Schwerionenforschung GmbH (DE))

Description MODERATORS:

Yiota Foka (GSI), Monica Necchi (CNAO)

Heavy Ion Therapy Research Integration

ASSISTANTS:

Nermine Muradi (University of Tetova)

GENERAL QUESTIONS for BEFORE the MC

GENERAL QUESTIONS for AFTER the MC

PTMC QUESTIONS











https://indico.cern.ch/event/1355597/

Moderators: Yiota Foka (GSI), Monica Necchi (CNAO)



Convener: Yiota Foka (GSI - Helmholtzzentrum fur Schwerionenforschung GmbH (DE)) 16:00 Welcome (§ 5m Speaker: Yiota Foka (GSI - Helmholtzzentrum fur Schwerionenforschung GmbH (DE)) 16:05 HITRIplus EU-funded project in support of Particle Therapy (10m Speaker: Maria Monica Necchi (Fondazione CNAO (IT)) 16:15 Presentation from UNAM, MEXICO (§ 5m Speaker: Antonio Ortiz Velasquez (Universidad Nacional Autonoma (MX)) Presentation from INFN Bologna, ITALY (§ 5m Speaker: Stefano Marcellini (Universita e INFN, Bologna (IT))

Speaker: Marta Ruspa (Universita e INFN Torino (IT))

Presentation from V.N. Karazin Kharkiv National University, UKRAINE

Speaker: Dr Pylyp Kuznietsov (V.N. Karazin Kharkiv National University)

16:35 Presentation from Soumia High School, ALGERIA

Speaker: Khemakhmia Abdeslem

16:40 Presentation from Fadila High school, ALGERIA

O 5m

16:45 Presentation from University of Montenegro, Montenegro © 5m

Presentation from NISER Bhubaneshwar, INDIA

Speaker: Ganesh Jagannath Tambave (National Institute of Science Education and Research (NISER) (IN))

16:55 Presentation from University of Sonora, Mexico

Speaker: Alfredo Castaneda (Universidad de Sonora (MX))

17:00 Presentation from CERN

Speaker: Yiota Foka (GSI - Helmholtzzentrum fur !

Presentation from Univ Piemonte Orientale, ITALY

Speaker. Yiota Foka (GSI - Heimholtzzentrum für :

Speaker: Khemakhmia Abdeslem

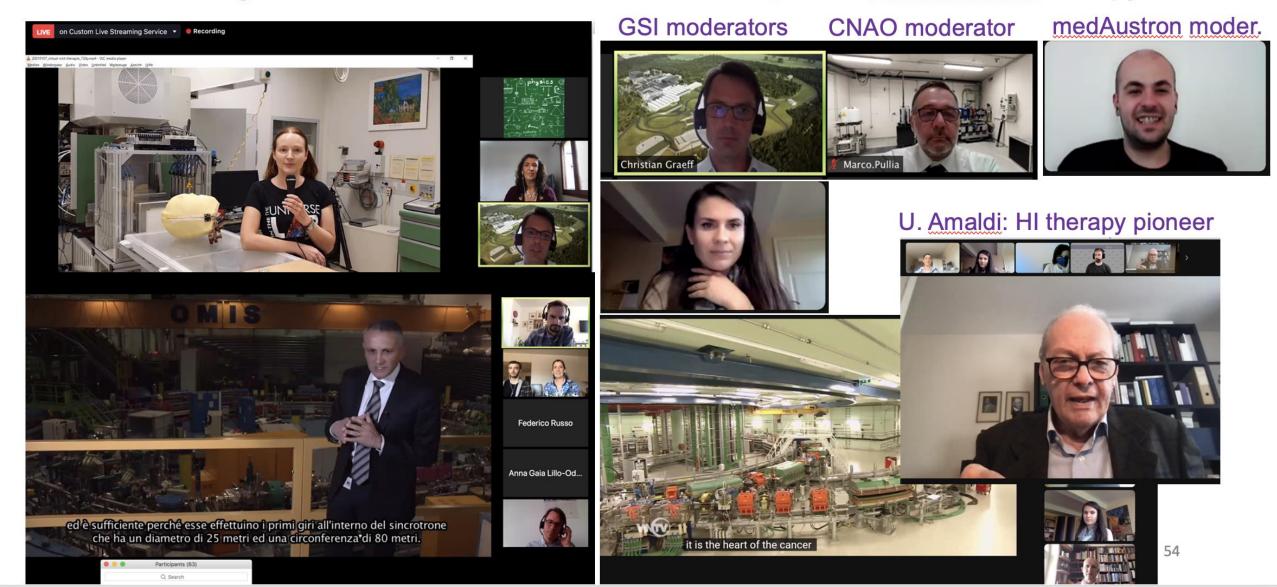
Speaker: Mara Scepanovic

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

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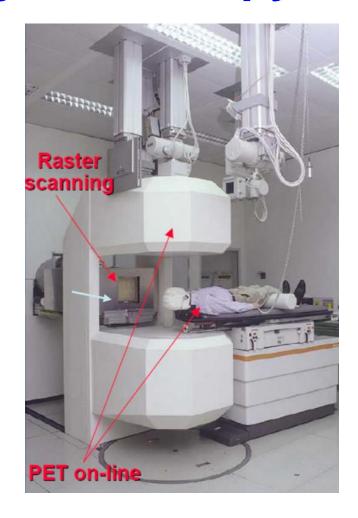
Virtual visits and video-conferences

Virtual visits during video-conference: GSI research institute, CNAO, MedAustron therapy centers



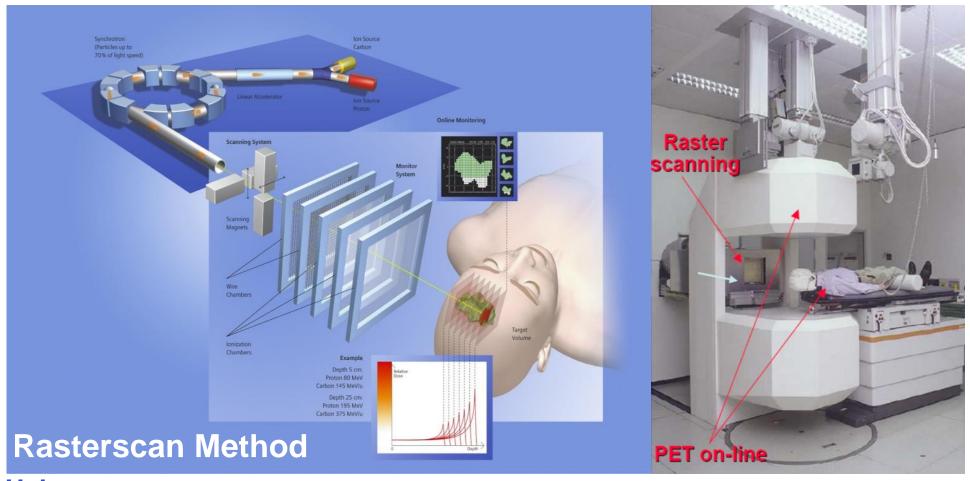
Heavy-ion research and heavy-ion therapy at GSI





Pioneered heavy-ion (carbon) therapy for cancer tumours in Europe (90s).

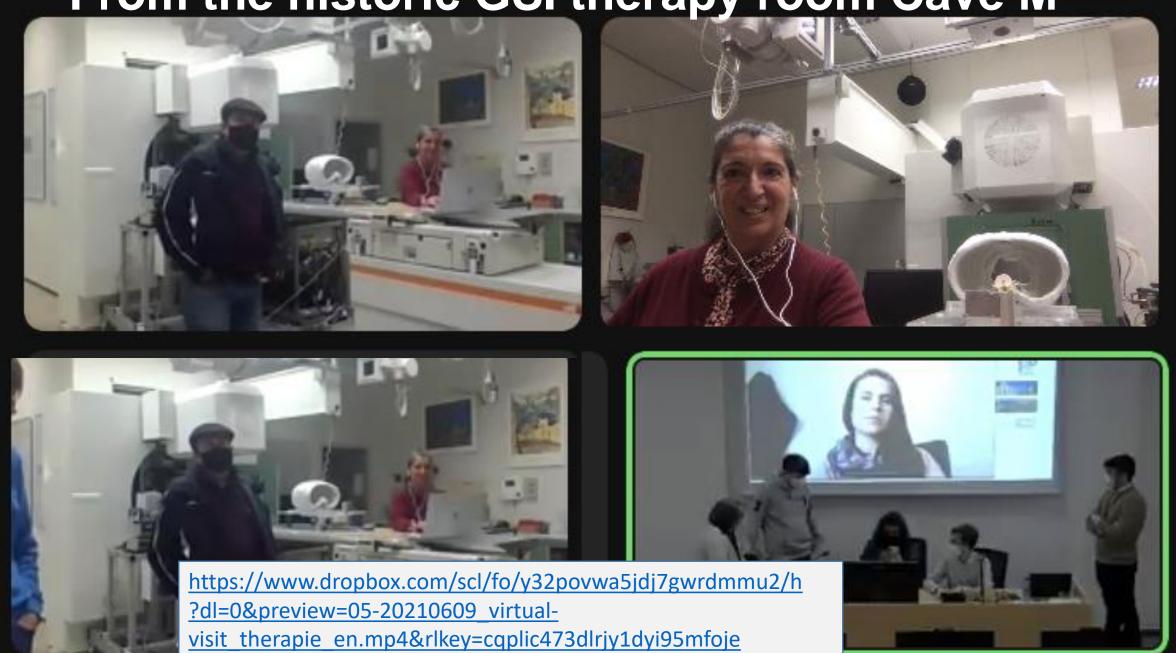
Heavy-ion research and heavy-ion therapy at GSI



Haberer et al., NIM A , 1993

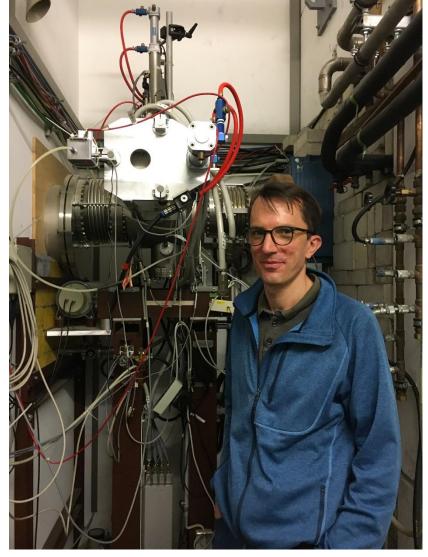
Implemented in the Heidelberg and Marburg Ion Treatment centers (HIT and MIT) in Germany

From the historic GSI therapy room Cave M

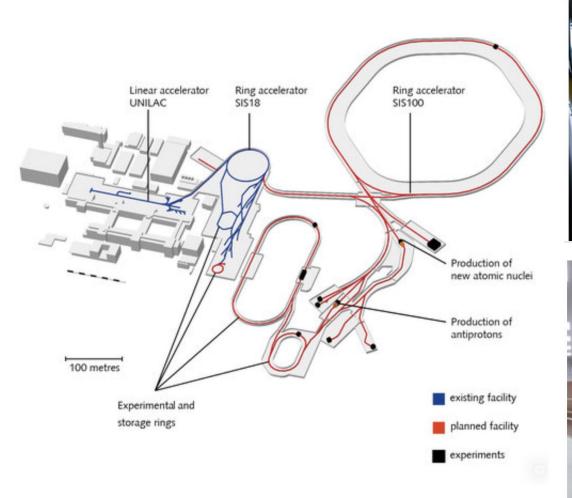


What is behind the wall?





What is behind the wall?









Four carbon-ion cancer therapy centers in Europe

MedAustron, Austria





HIT, Germany



MIT, Germany





Virtual Hadron Therapy Center ENLIGHT on Gantry Proton GantBeam Section Consulting Area Preparation Rooms eception Children's Area Imaging Control R Particle Accelerator Presentation Room



Particle Therapy Masterclass

Animations https://indico.cern.ch/event/840212/page/18000-animations

Research Institutes

es si fair	GSI/FAIR general science video, Courtesy of GSI
CERN	CERN Video, Courtesy of CERN

Therapy Centres

ENLIGHT	ENLIGHT Animations, Courtesy of ENLIGHT
CNAO Coron Nacional e Administrato	CNAO Video, Courtesy of CNAO
HIT	HIT Video, Courtesy of HIT
MedAustron	MedAustron Video, Courtesy of MedAustron MedAustron Behind the Scenes, Courtesy of MedAustron



Many thanks to the PTMC core team, all moderators and local organisers, the HITRIplus project for contributions and support







The HITRIplus project Heavy Ion Therapy Research Integration plus

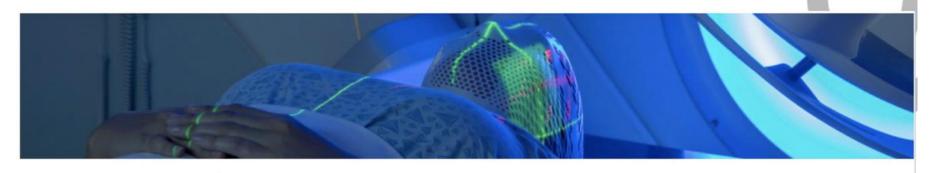


https://www.hitriplus.eu



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HITRIplus @hitriplus9177 102 iscritti

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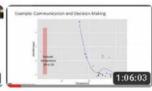
9th Seminar of HITRIplus -FLASH radiotherapy with...

349 visualizzazioni • 1 mese fa



8th Seminar of HITRIplus – The Past, Present, and...

31 visualizzazioni • 3 mesi fa



HITR Lecture 32: Key aspects of safety in Particl...

33 visualizzazioni · 6 mesi fa



Final Lecture: Closing Thoughts from Organisers

21 visualizzazioni · 6 mesi fa



HITR Lecture 31: External Beam Ablation Medical...

40 visualizzazioni • 7 mesi fa



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Webinars





MAURIZIO VRETENAR

14th Seminar of HITRIplus - Accelerating 13th Seminar of HITRIplus - The EUthe future: designing a robust and affordab. RAPTOR project radiation therapy treatment system for challenging environments

12th Seminar of HITRIplus - New trends and initiatives in accelerators for ion therapy of cancer

> FELIPE CALVO



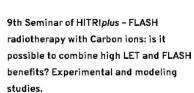


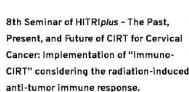
11th Seminar of HITRIplus - LIGHT: a linear 10th Seminar of HITRIplus - Helium Ion accelerator for cancer therapy, AVO-ADAM.



Beam Therapy







NORIYUKI

OKONOGI



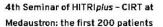


6th Seminar of HITRIplus - Human organoids: a new model system for pre-clinical studies of toxicity and effectiveness of particle therapy



5th Seminar of HITRIplus - Marburg Ion Beam Therapy Center: Innovations in Physics and Radiobiology







3rd Seminar of HITRIplus - Ion Beam Therapy at HIT: Options for Multi-lon Treatment and Research



2nd Seminar of HITRIplus - INSPIRE project



Opening Seminar of HITRIplus - The status and perspectives of CNAO



@hitriplus9177 · 287 iscritti · 131 video



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