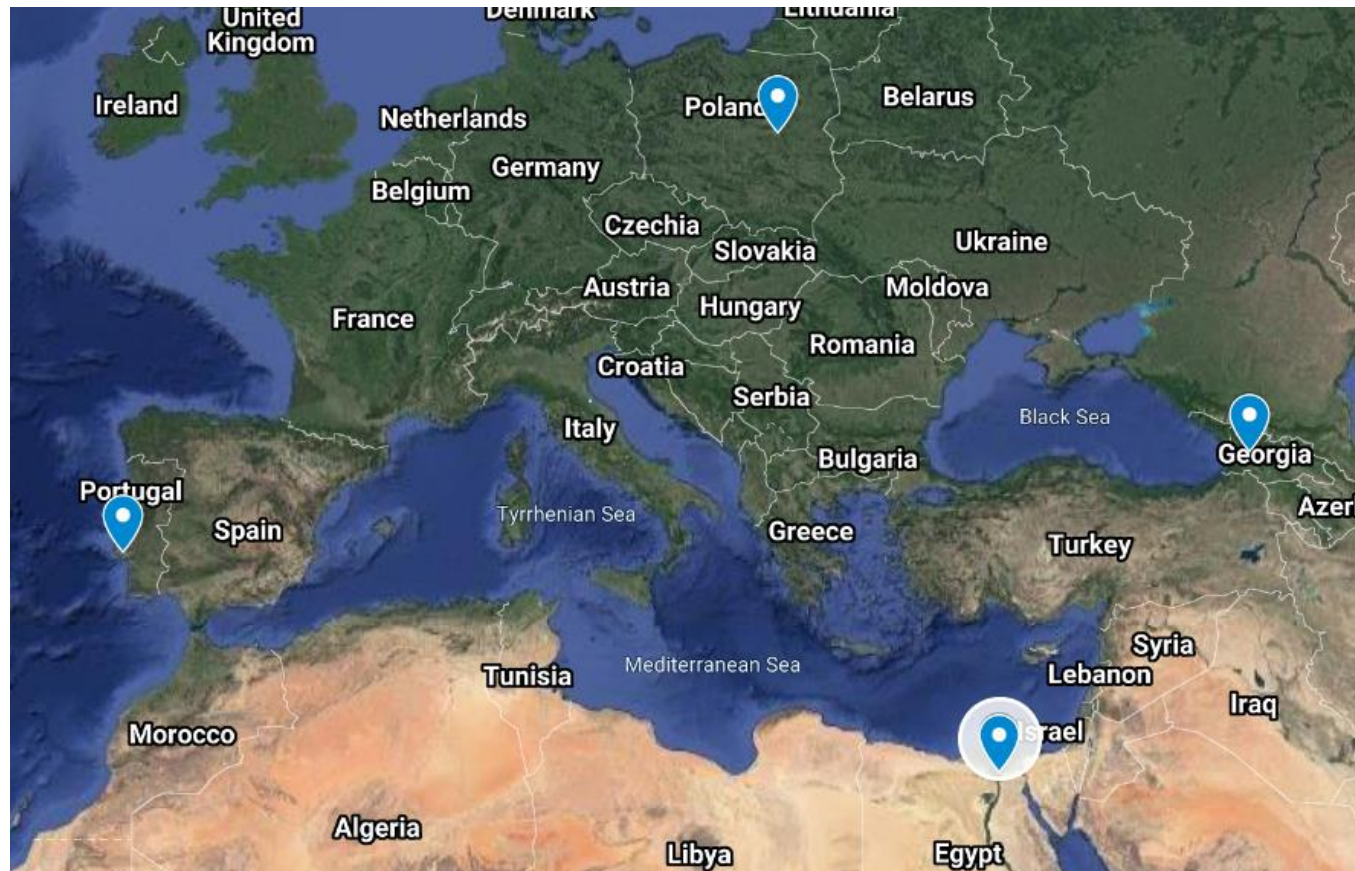


PTMC Video Conference 19 March 2022



Particle Therapy Masterclass



PTMC Video Conference 19 March 2022

<https://indico.cern.ch/event/1122934/>

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Video Conference: Particle Therapy MasterClass 19th March 2022

Saturday 19 Mar 2022, 16:00 → 17:03 Europe/Zurich

online

Yiota Foka (GSI - Helmholtzzentrum für Schwerionenforschung GmbH (DE)), Aristeidis Mamaras (Aristotle University of Thessaloniki (GR))

- Animations
- PTMC-VC_18Mar2...
- PTMC-VC_18Mar2...
- Survey

Videoconference

Video Conference: Particle Therapy MasterClass 19th March ▶ Join

16:00 → 17:03 Video Conference: 19 March 2022

Conveners: Aristeidis Mamaras (Aristotle University of Thessaloniki (GR)), Yiota Foka (GSI - Helmholtzzentrum für Schwerionenforschung GmbH (DE))

Statistics

16:00 **Welcome** ⌚ 5m

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

PTMCintro-19march... PTMCintro-19march...

16:05 **GSI historic treatment room (Cave M)** ⌚ 3m

Video: GSI treatment...

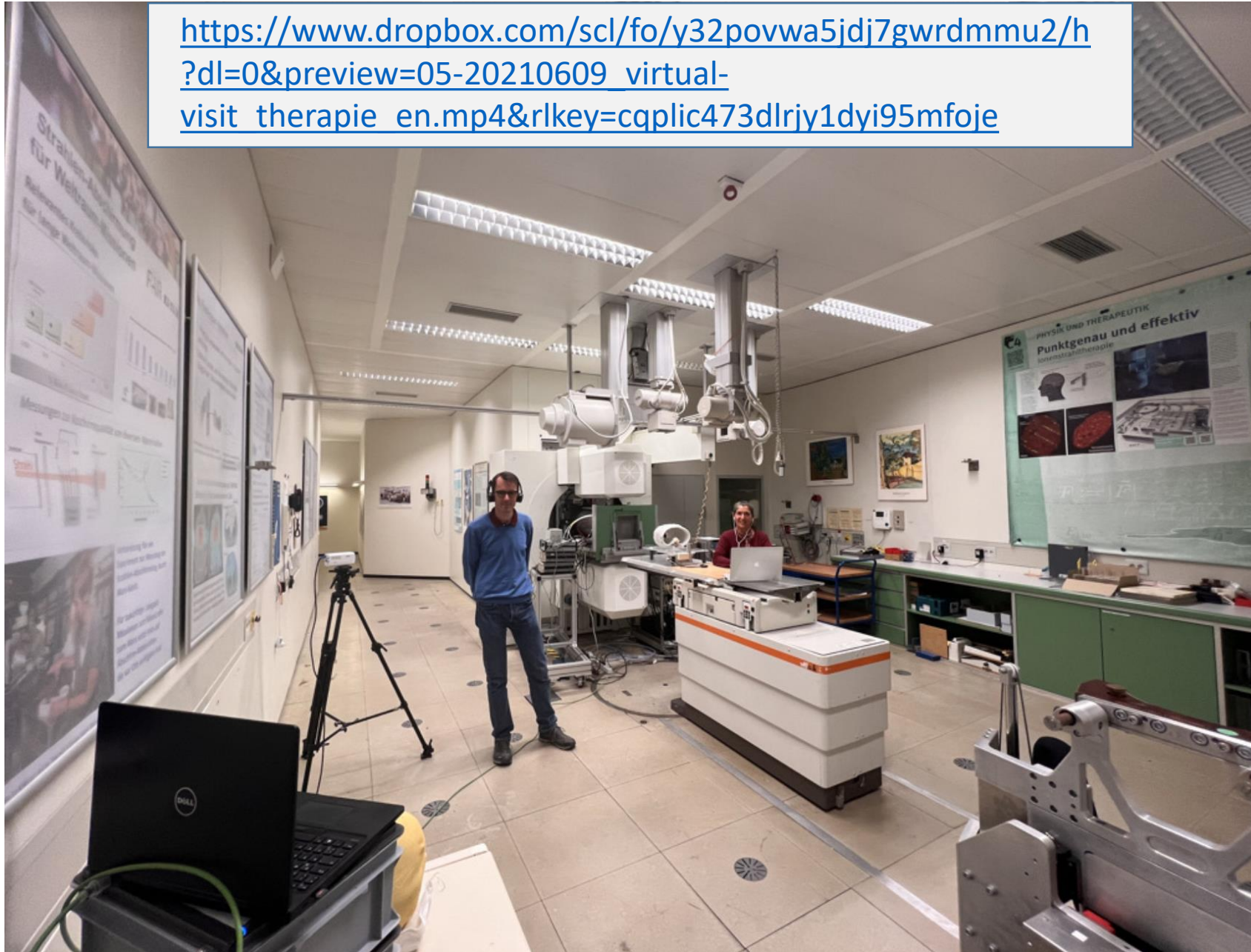
16:10 **Presentation from Georgia, Kutaisi** ⌚ 10m

Speaker: Levan Kankadze (INFN - National Institute for Nuclear Physics)

16:20 **Presentation from Portugal, Lisbon** ⌚ 10m

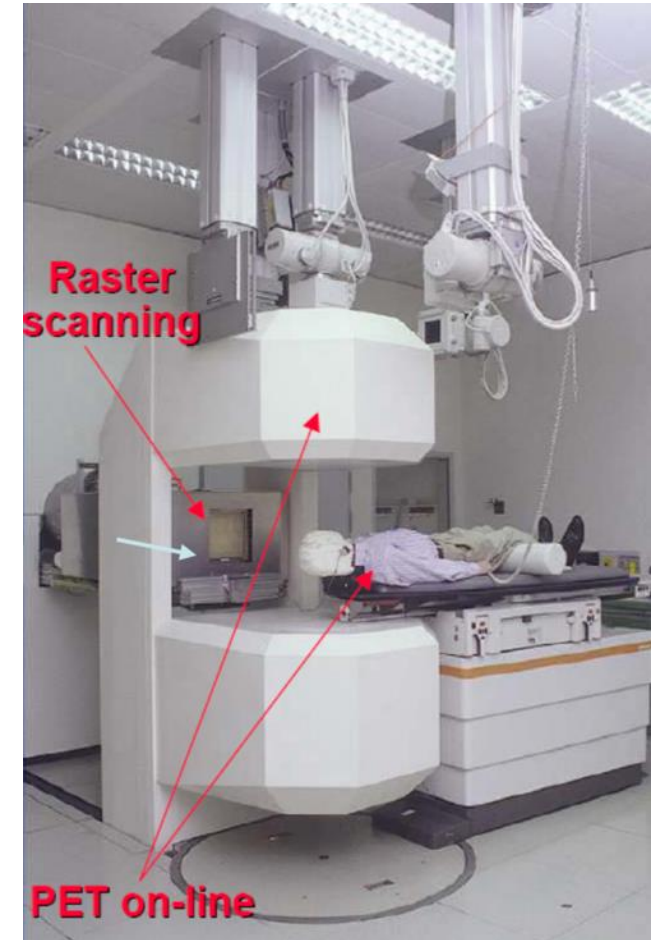
From the historic GSI therapy room Cave M

https://www.dropbox.com/scl/fo/y32povwa5jdi7gwrddmmu2/h?dl=0&preview=05-20210609_virtual-visit_therapie_en.mp4&rlkey=cqpllc473dlrjy1dyi95mfoje





Heavy-ion research and heavy-ion therapy at GSI



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

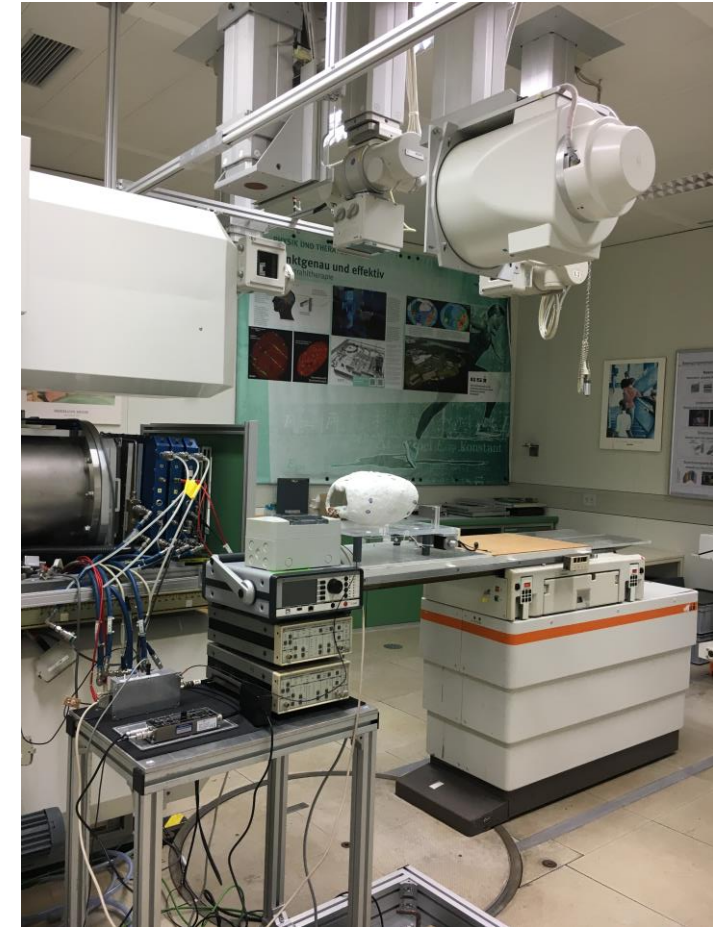
Heavy-ion research and heavy-ion therapy at GSI

Rasterscan Method

Haberer et al., NIM A , 1993

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

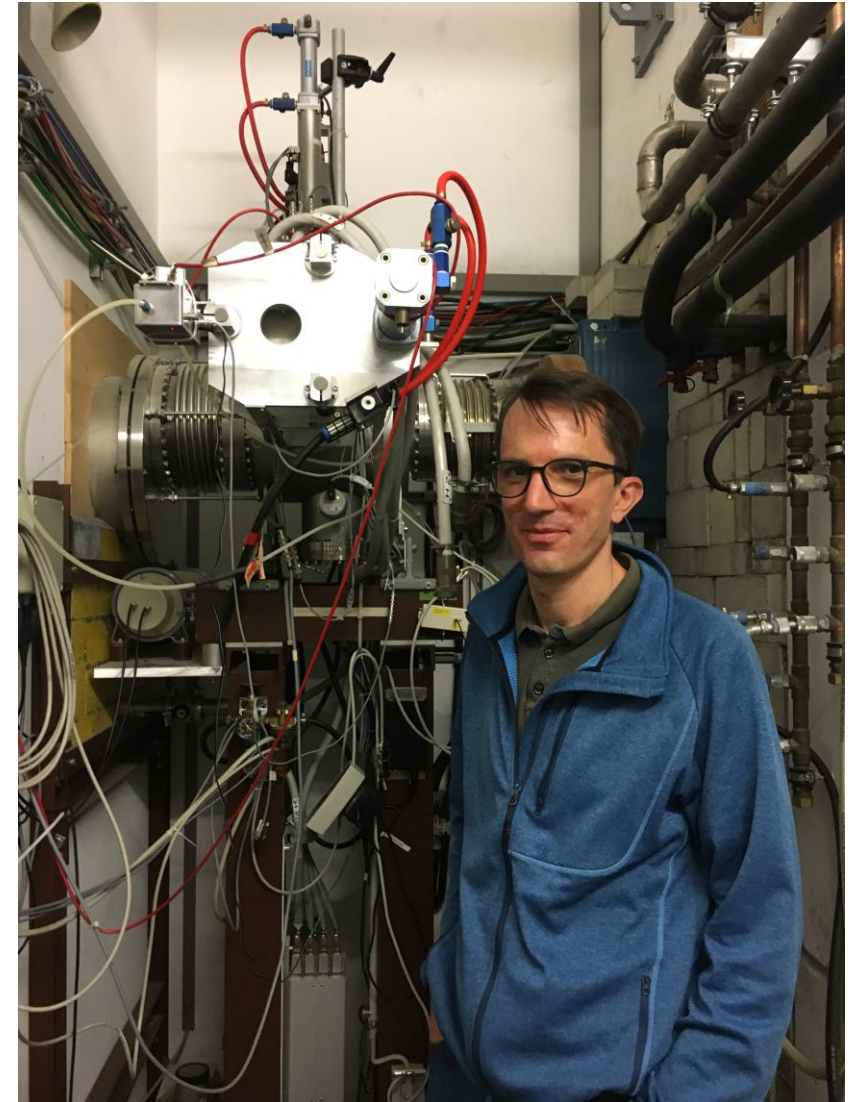
The heavy-ion therapy room at GSI today



Haberer et al., NIM A , 1993

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

What is behind the wall?



What is behind the wall?

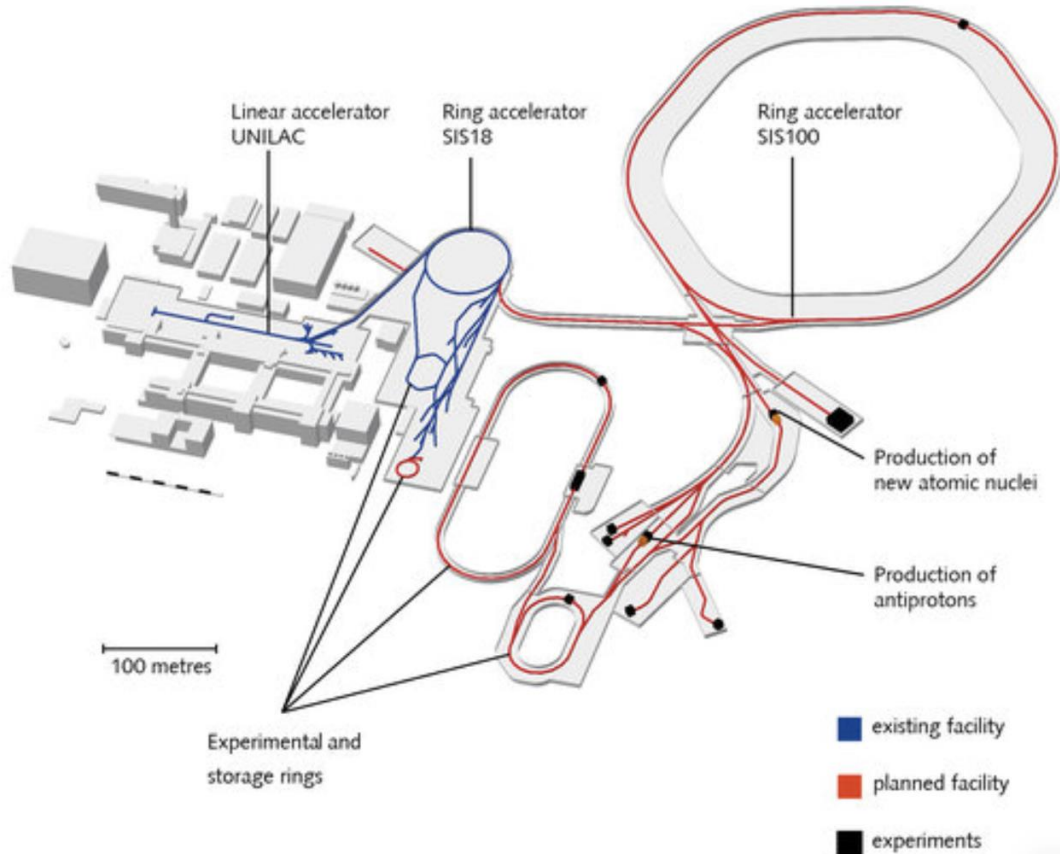


Photo: J. Mai / GSI Helmholtzzentrum für Schwerionenforschung

Virtual Hadron Therapy Center



Four carbon-ion cancer therapy centers in Europe

MedAustron, Austria



CNAO, Italy

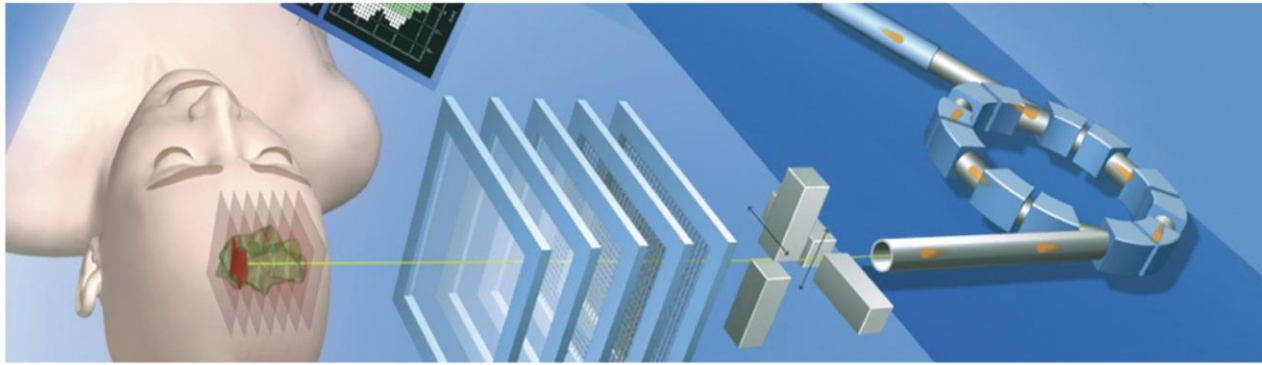


HIT, Germany



MIT, Germany











Particle Therapy Masterclass

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

Research Institutes

	GSI/FAIR general science video, Courtesy of GSI
	CERN Video, Courtesy of CERN

Therapy Centres

	ENLIGHT Animations, Courtesy of ENLIGHT
	CNAO Video, Courtesy of CNAO
	HIT Video, Courtesy of HIT
	MedAustron Video, Courtesy of MedAustron MedAustron Behind the Scenes, Courtesy of MedAustron