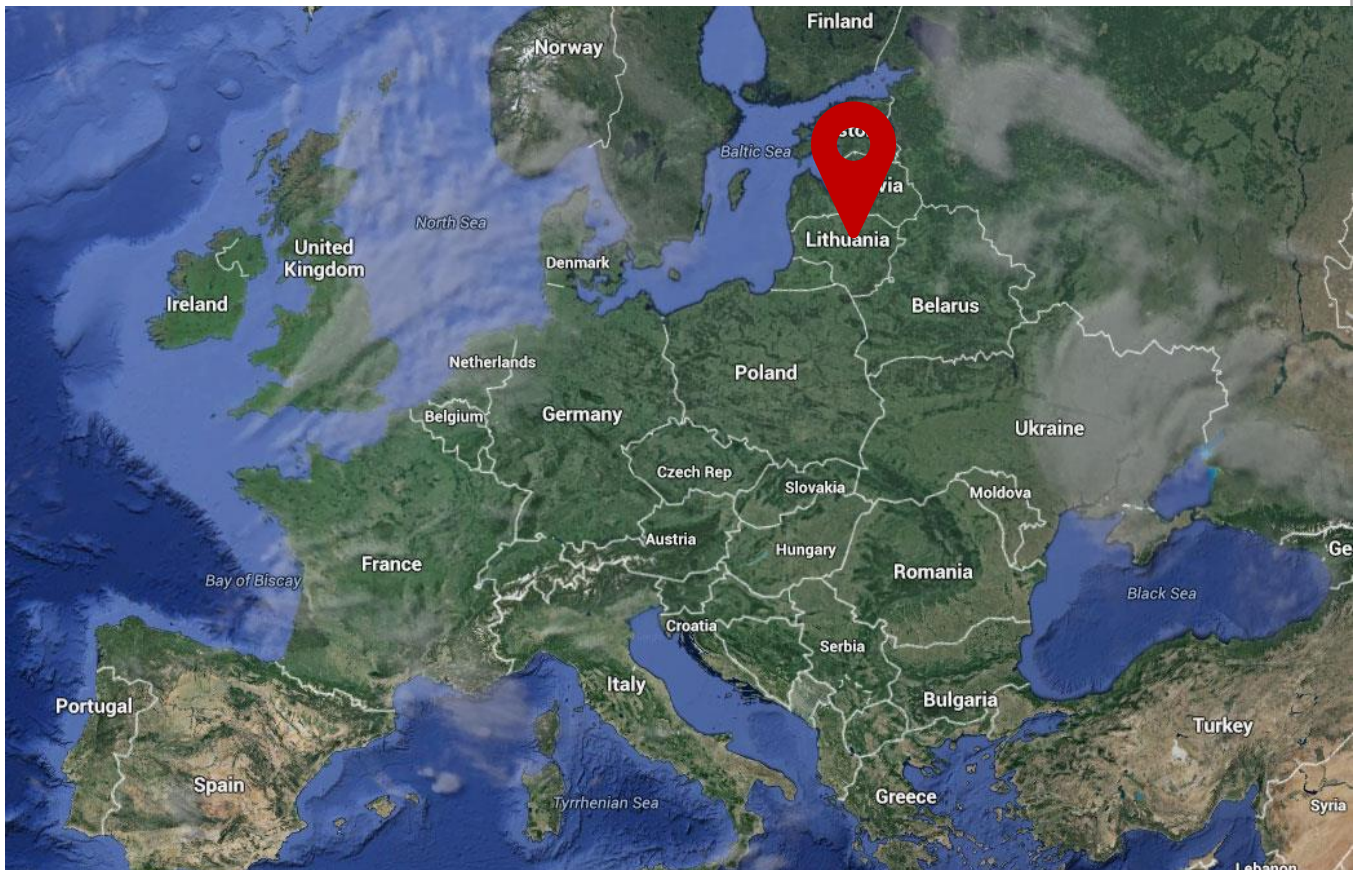
PTMC Video Conference 8 March 2023

GSI FAIR EMMI dkfz. GERMAN CANCER RESEARCH CENTER IN THE HELMHOLTZ ASSOCIATION CERN INTERNATIONAL MASTERCLASSES hands on particle physics IPPOG International Particle Physics Outreach Group

Particle Therapy Masterclass



PTMC Video Conference 8 March 2023

https://indico.cern.ch/event/1246640/

Video Conference: Particle Therapy MasterClass 8 March 2023

Wednesday 8 Mar 2023, 17:00 → 18:03 Europe/Athens

online https://cern.zoom.us/j/63695466808?pwd=RnVybXRXMG9JNENwaDlDWWFkWTRWZz09

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

Description GENERAL QUESTIONS for BEFORE the MC

https://docs.google.com/forms/d/e/1FAIpQLSdGxZf4Pc6PjQDygkoUzRUudOjlbiglBcNSHPdaQQE-KkbJyg/viewform?usp=sf_link

GENERAL QUESTIONS for AFTER the MC

https://docs.google.com/forms/d/1DPZrRme

PTMC QUESTIONS

https://docs.google.com/forms/d/e/1FAIpQL

ALICE MC QUESTIONS

https://docs.google.com/forms/d/1NvgfML_E

Animations | GSI historic treatm...

17:00 → 18:03 **Video Conference: 8 March 2023**

Convener: Yiota Foka (GSI - Helmholtzzentrum fur Schwerionenforschung GmbH (DE))

Statistics of PTMC

17:00 **Welcome** 1m

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

17:02 **HITRIplus EU-funded project in support of Particle Therapy** 1m

Speaker: Dr Angelica Facoetti (CNAO Foundation)

HitriPlusproject PT... | HitriPlusproject PT...

17:10 **Presentation from LITHUANIA** 10m

Speakers: Ausra Kyniene, Dr Brigita Abakeviciene, Elona Juozaityte

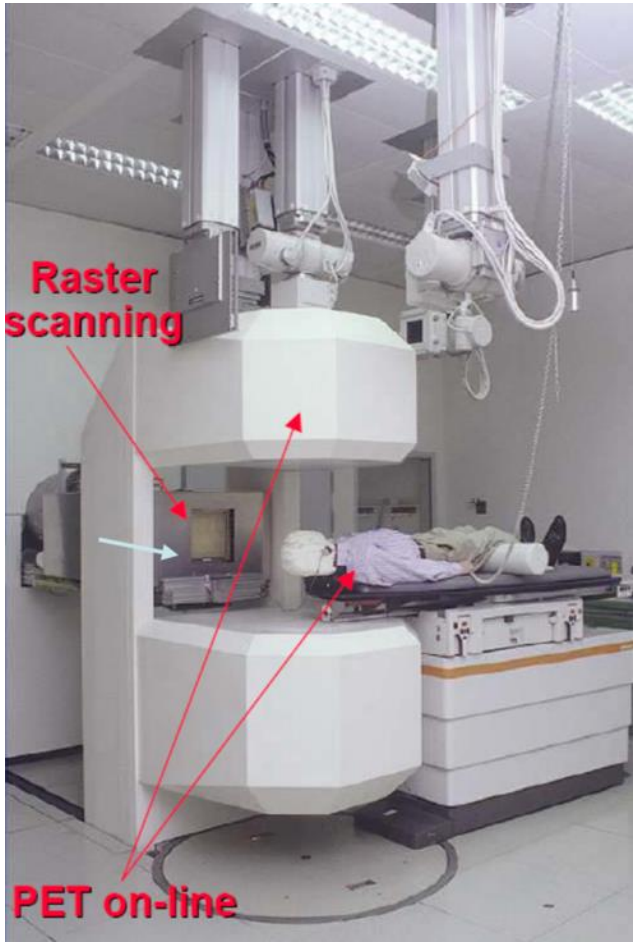
17:52 **Quiz** 8m

quiz-PTMC-2020-DS... | quiz-PTMC-2020-DS...

From the historic GSI therapy room Cave M

https://www.dropbox.com/scl/fo/y32povwa5jdj7gwrdmmu2/h?dl=0&preview=05-20210609_virtual-visit_therapie_en.mp4&rlkey=cqplic473dlrjy1dyi95mfoje

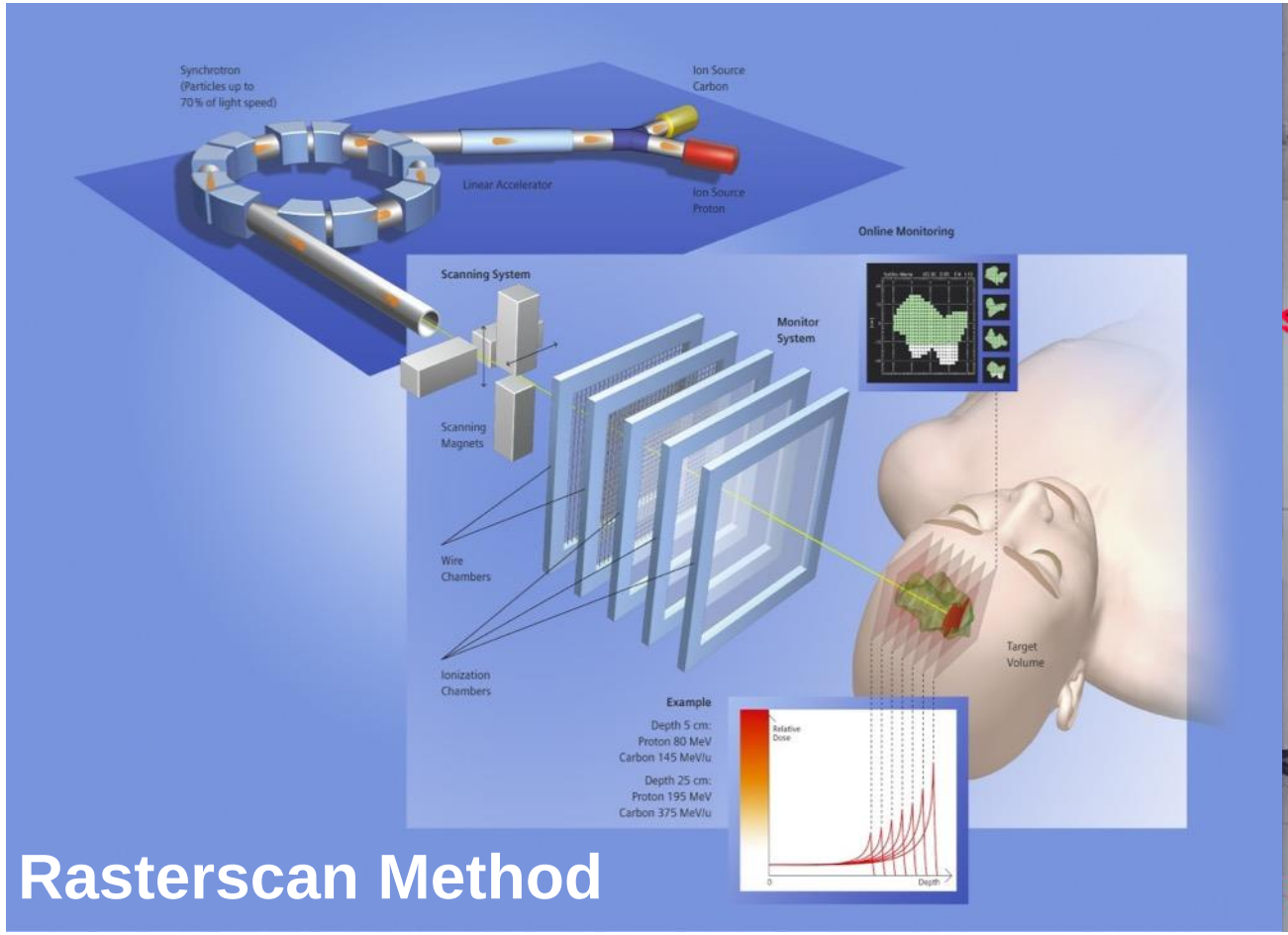
Heavy-ion research and heavy-ion therapy at GSI

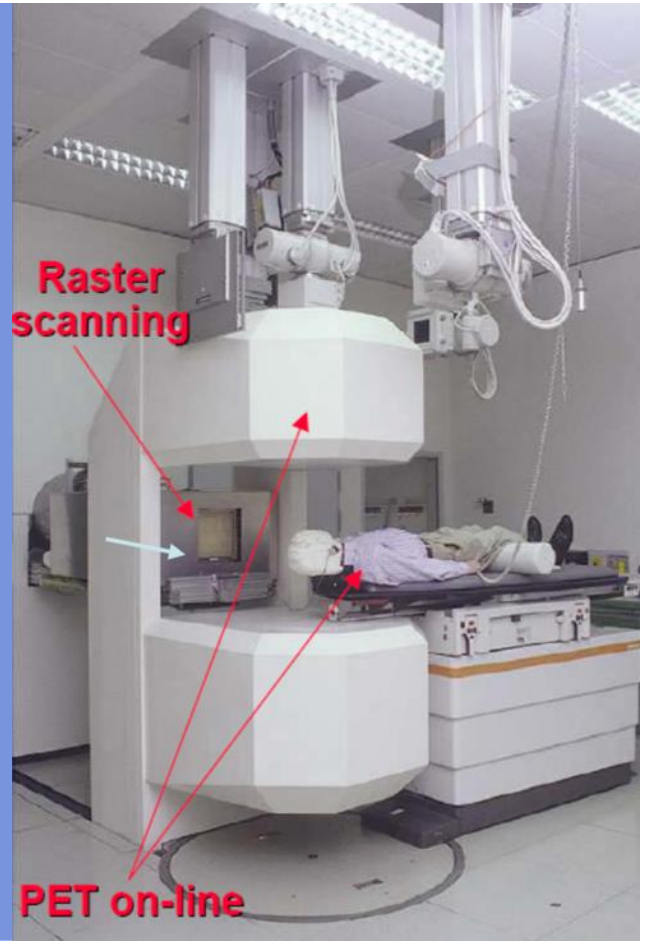


Pioneered heavy-ion (carbon) therapy for cancer tumours in Europe (90s).

INTERNATIONAL MASTERCLASSES
hands on particle physics

Heavy-ion research and heavy-ion therapy at GSI



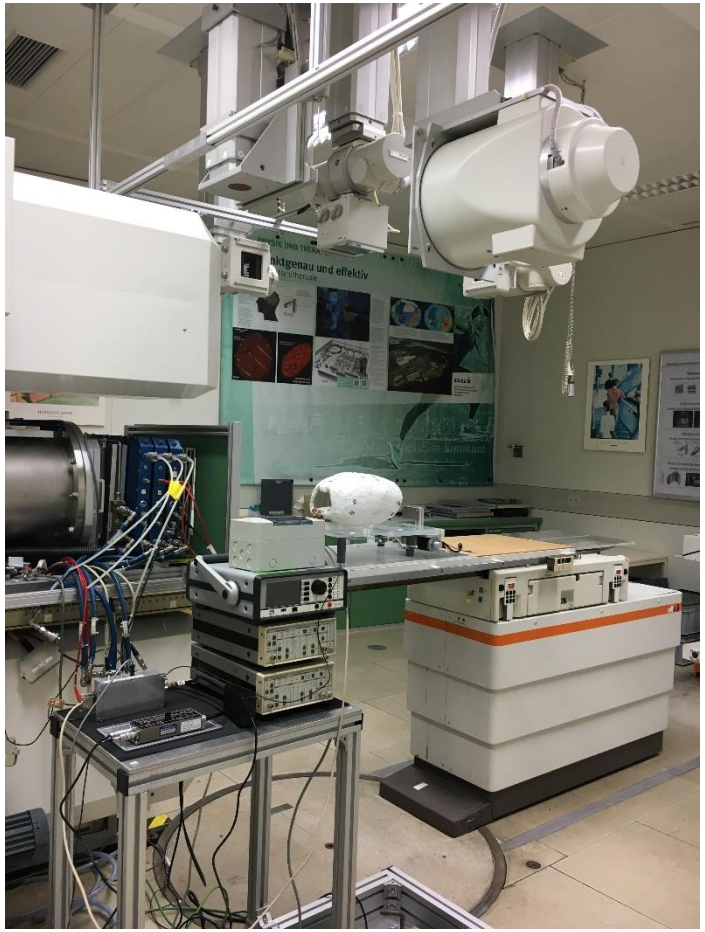


Haberer et al., NIM A , 1993

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

INTERNATIONAL MASTERCLASSES
hands on particle physics

The heavy-ion therapy room at GSI today



Haberer et al., NIM A , 1993

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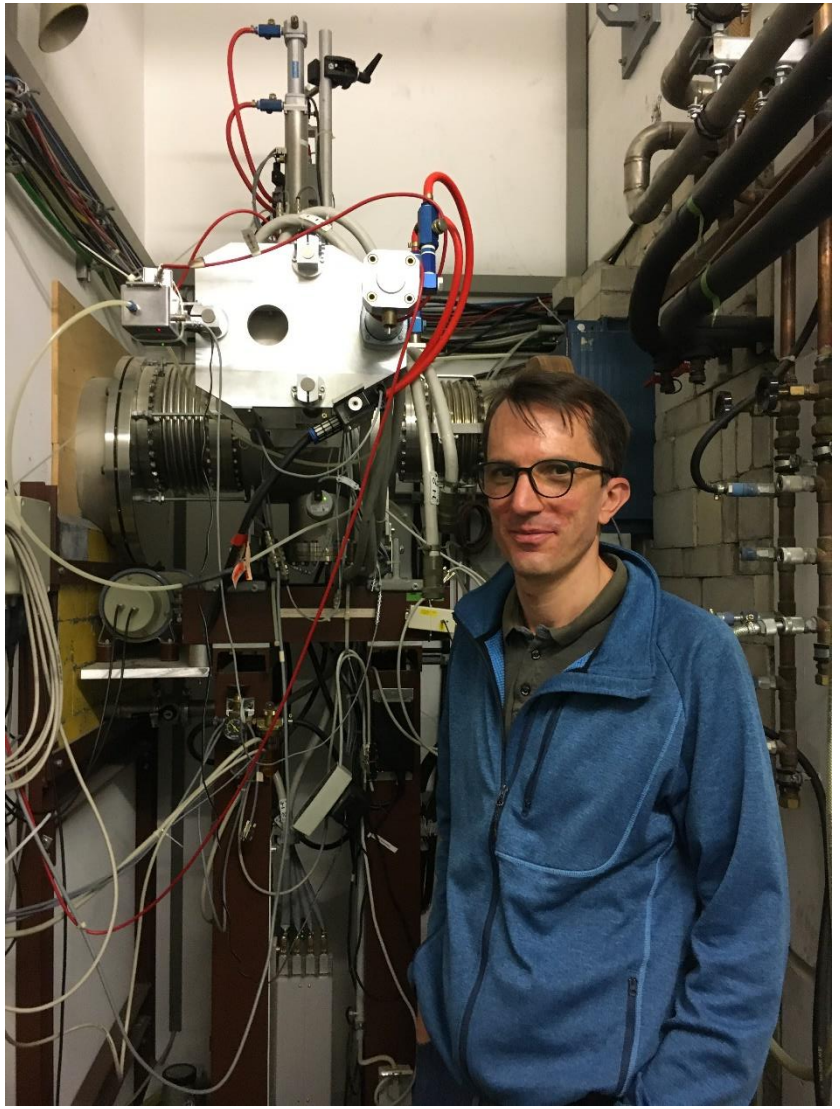
What is behind the wall?



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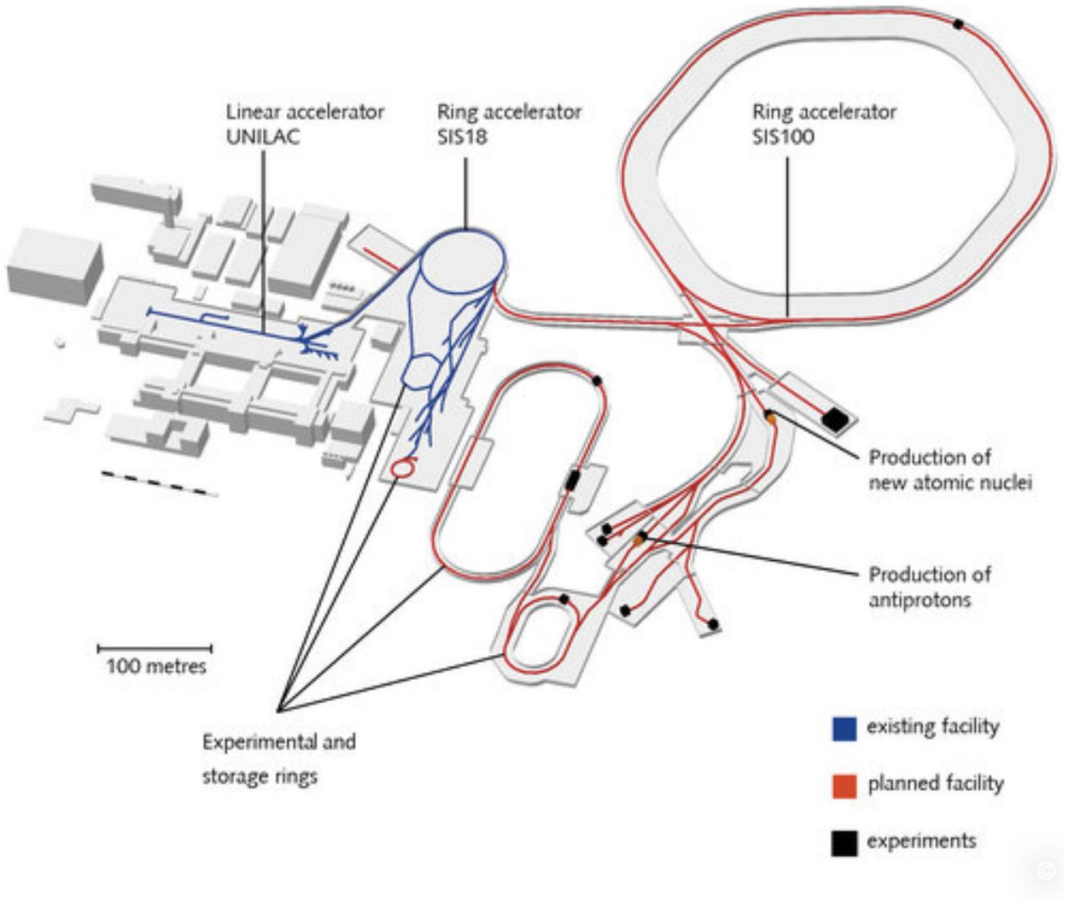
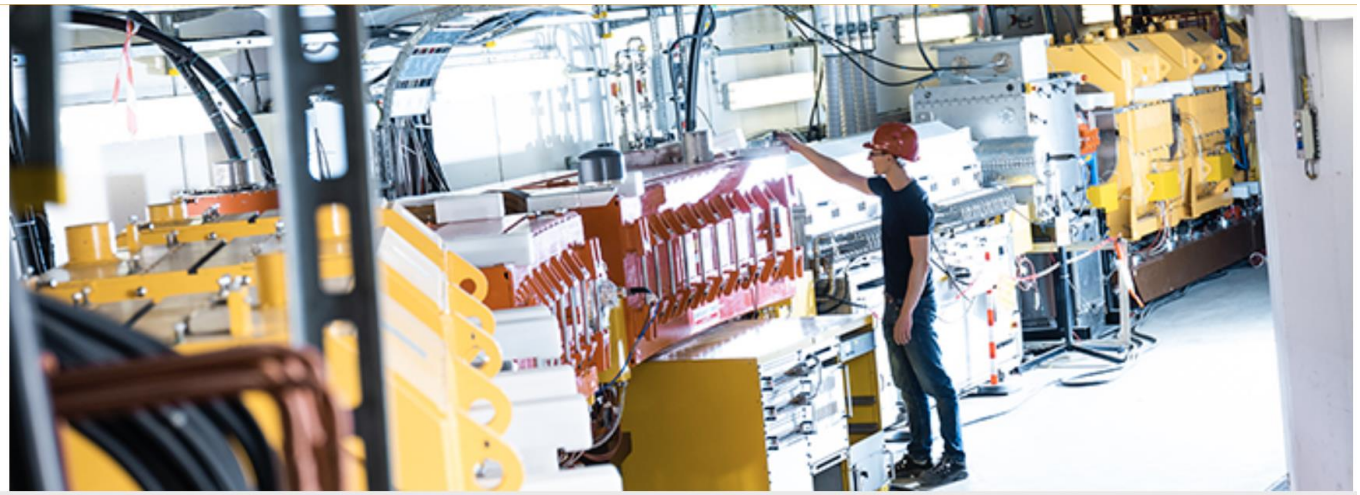




Virtual Hadron Therapy Center

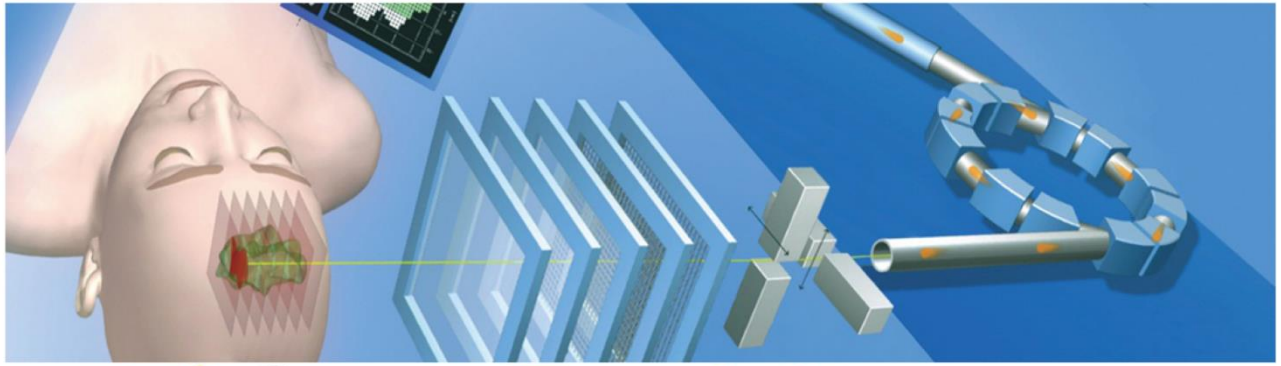
Four carbon-ion cancer therapy centers in Europe

CNAO, Italy

HIT, Germany

MIT, Germany

MedAustron, Austria



Particle Therapy Masterclass

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

Research Institutes

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

Therapy Centres

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