

E-Learning Courses on Heavy Ion Therapy Research

































3 Online Courses on Heavy Ion **Therapy Research**

Treatment Planning



Heavy Ion Therapy Research Integration

Medical Physics and Engineering



Clinical Aspects





Course 1 – Treatment Planning

Faculty: 36 lecturers

Chair: Yiota Foka (GSI)

Views: circa 3000 to date

Duration: 34 hours

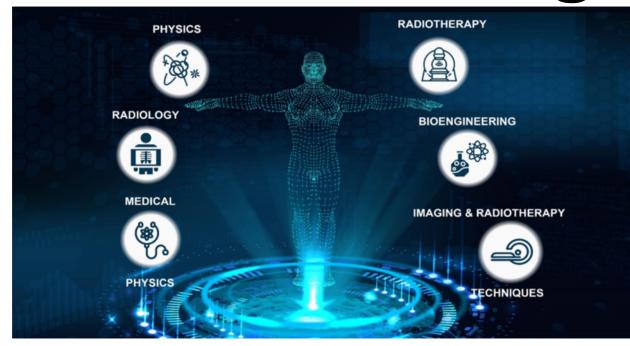
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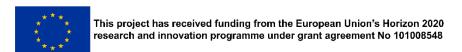
Fees: Free

Learning Outcomes:

- underpinning theory, techniques and methods
- design and planning skills
- technical knowledge on the design of heavy ion therapy machines
- analytical, critical and evaluation skills of treatment scenarios







Course 1 – Treatment Planning

1. Amer Ajanović ICL

SEEIIST

3. Uta Bilow

TU Dresden

4. Giovanni Bisoffi

2. Elena Benedetto

INFN

5. Manuella Cirili

CERN

6. Haris Dapo

ANKARA Univ./TARLA

7. Mirza Dautbasic

UNSA

8. Manjit Dosanjh

ENLIGHT/SEEIIST/CERN

9. Ana Đorđević

CERN

10. Angelica Facoetti CNAO

11. Yiota Foka

GSI/EMMI

12. Piero Fossati

MedAustron

13. Nadia Gambino

MedAustron

14. Christian Graeff

GSI

15. Milkos Jaksic

IRB

16. Silvia Meneghello CNAO

17. Uros Mitrović

Cosylab JSC

18. Silvia Molinelli

CNAO

19. Monica Necchi **CNAO**

20. Ester Orlandi

CNAO

21. Matej Polzelnik

Cosylab JSC

22. Marco Pullia

CNAO

23. Ash Ravikumar

CERN

24. Mimoza Ristova

UKIM

ICL

SEEIIST 25. Mariusz Sapinksi

26. Joao Seco

DKFZ

27. Rebecca Taylor

28. Markus Stock

MedAustron

29. Dasa Stupica

Cosylab JSC

30. Albana Topi GSI

31. Slavisa Tubin

MedAustron

32. Vasilis Vlachoudis CERN

33. Maurizio Vretenar CERN

34. Niklas Wahl DKFZ

35. Hans Peter Wieser LMU





Course 2 – Medical Physics and Engineering

Faculty: 36 lecturers

Chair: Manjit Dosanjh (SEEIIST & Uni Oxford)

Views: circa 3200 to date

Duration: 35 hours

Language: English

Fees: Free

Learning Outcomes:

- underpinning theory, techniques and methods
- specialised medical physics knowledge
- technical expertise in fundamental building blocks
- analytical, critical and evaluation skills of medical physics and engineering





Course 2 – Medical Physics and Engineering

Organising committee:

Manjit Dosanjh (SEEIIST) (Chair)

Monica Necchi (CNAO)

Angelica Facoetti (CNAO)

Petya Georgieva (SEEIIST/CERN)

Nicholas Sammut (Uni Malta)

Rebecca Taylor (CERN)

Joseph Bateman (Uni Oxford)

Cameron Robertson (Uni Oxford)

Kristaps Palskis (CERN)

Scientific Committee - Manjit Dosanjh (in the chair)

Ugo Amaldi (TERA)

Maurizio Vretenar (CERN)

Elena Benedetto (SEEIIST)

Mariusz Sapinski (PSI)

Kenneth Long (Imperial College)

Klemens Zink (Marburg-MIT)

Eleanor Blakely (Berkeley)

Piero Fossati (MedAustron)

Karen Kirby (INSPIRE - Uni Manchester)

Alex Gerbershagen (Uni Groeningen)

Angelica Facoetti (CNAO)

Monica Necchi (CNAO)

Nicholas Sammut (Uni Malta)

Sandro Rossi (CNAO)

Giovanni Anelli (CERN)

Mario Schrenk (MedAustron)

Thomas Schreiner (MEdAustron)

Yiota Foka (GSI)

Suzie Sheehy (Uni – Melbourne)

Andrea Mairani

Joao Seco (DKFZ)

Anna Subiel (NPL)

Marco Pullia (CNAO)

Lucio Rossi (INFN)

Giusy Bisogni (INFN)

Katia Parodi (Uni Munich)

Steve Myers (ADAM)

Adriano Garonna (EBAMED)

Manuela Cirilli (CERN)



Course 3 — Clinical Aspects

Faculty: 27 lecturers

Chair: Yiota Foka (GSI & SEEIIST) & Piero Fossati (MedAustron)

Views: circa 14,500 to date

Duration: 27 hours

Language: English

Fees: Free

Learning Outcomes:

- underpinning theory, techniques and methods
- specialised clinical knowledge on the design of heavy ion therapy machines
- analytical, critical and evaluation skills of clinical aspects







Course 3 — Clinical Aspects

Piero Fossati

Ester Orlandi

Semi Harrabi

Yiota Foka

Manuela Cirilli

Arnold Pompos

Amelia Barcellini

Alexander Helm

Barbara Vischioni

Bradford S. Hoppe

Carola Lütgendorf-Caucig

Giulia Riva

Jacques Balosso

Joao Seco

Katharina Seidensaal

MedAustron

CNAO

HIT

GSI/SEEIIST

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UTSW

CNAO

GSI

CNAO

Mayo Clinic

MedAustron

CNAO

ARCHADE

DKFZ

HIT

Maciej Pelak

Maria Bonora

Maria Rosaria Fiore

Mack Roach

Niklas Wahl

Razvan Galalae Klinikum

Roberto Orecchia

Rossana Ingargiola

Silvia Molinelli

Slavisa Tubin

Thomas Held

Walter Tinganelli

MedAustron

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Snapshot



Hitriplus e-learning courses on Heavy Ion Therapy Research



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Download Documentation * (*)



Course 2 Medical Physics and Engineering

About the Programme* (*)

Course Video Playlist* (*)

Download Documentation* (*)



Course 3 Clinical Aspects

About the Programme * (*)
Course Video Playlist* (*)
Download Documentation* (*)

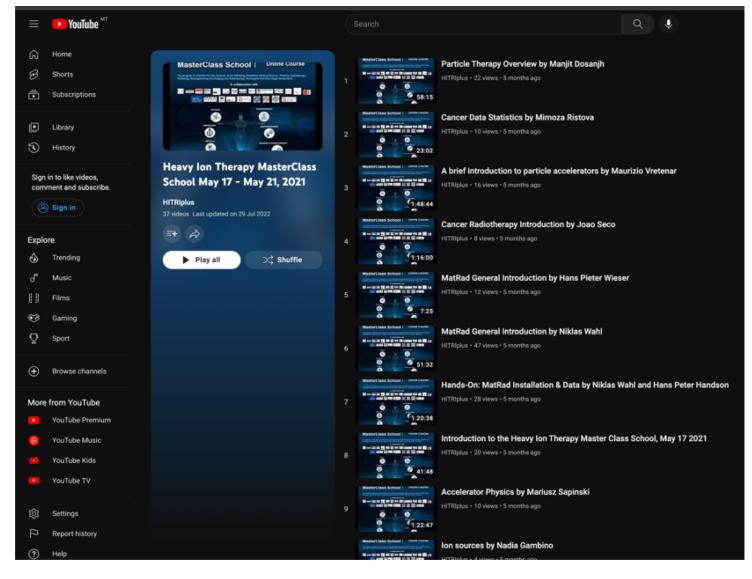
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Snapshot





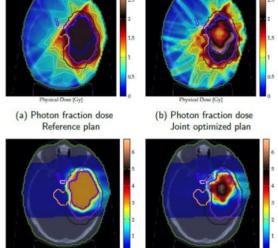


A Few Snapshots









(e) Carbon ion fraction dose

Joint optimized plan











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

(d) Carbon ion fraction dose

Reference plan

Link

https://www.hitriplus.eu/

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