

School on Medical Physics for Radiation Therapy: Dosimetry and Treatment Planning for Basic and Advanced Applications



25 March – 5 April 2019
Trieste, Italy

Further information:

Activity URL: <http://indico.ictp.it/event/8651/smr3278@ictp.it>

The Abdus Salam International Centre for Theoretical Physics (ICTP) will organize, with the support of the International Organization for Medical Physics (IOMP), the European Federation of Organisations for Medical Physics (EFOMP), the American Association of Physicists in Medicine (AAPM) and the Italian Association of Medical Physics (AIFM), a two-week School on Medical Physics for Radiation Therapy.

Directors:

C. Cavedon, AIFM
M. de Denaro, Trieste Univ Hospital
G. Hartman, EFOMP
C. Orton, IOMP
R. Padovani, ICTP
Y. Pipman, AAPM

Description:

The objective of the school is to contribute to the understanding of physics applied to radiation oncology and the development of competent medical physicists who can make a direct contribution to the improvement of health care in their countries through better radiation therapy. This will be achieved by providing participants with education and practical training to enhance their effectiveness as future disseminators of this knowledge, who can provide in turn educational and training opportunities to other medical professionals and students.

The programme will introduce the physics applied to conventional and advanced therapy principle, methods and technology and will facilitate the creation of a network for the exchange of information on radiotherapy physics among scientists in developing and developed Member States.

Topics:

- Radiobiology
- Dosimetry
- Therapy equipment
- Dosimetry algorithms
- 3D conformal, advanced (IMRT, VMAT, SBRT) treatment delivery and brachytherapy
- Treatment planning and its practical implementation
- Treatment verification
- Quality assurance
- Case studies

Local Organizer:

R. Padovani, ICTP

How to apply:

Online application:
<http://indico.ictp.it/event/8651/>

Female students and scientists are encouraged to apply.

Grants:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

Co-sponsored by:



The Abdus Salam
International Centre
for Theoretical Physics
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