

# School on Medical Physics for Radiation Therapy: Dosimetry, Treatment Planning and Delivery for Advanced Applications



**11 - 22 September 2023**  
**An ICTP Meeting**  
**Trieste, Italy**

Further information:  
<http://indico.ictp.it/event/10205/smr3871@ictp.it>

The ICTP will organize, with the support of the International Organization for Medical Physics (IOMP), the European Federation of Organisations for Medical Physics (EFOMP), the Federation of African Medical Physics Organizations (FAMPO), The America Association of Physicists in Medicine (AAPM), Medical Physics for World Benefit (MPWB) and the Italian Association of Medical Physics (AIFM), a two-week School on Medical Physics for Radiation Therapy.

## Directors:

C. CAVEDON, AIFM, Italy  
A. CHOUGULE, IOMP, India  
P. KUKOLOWICZ, EFOMP, Poland  
R. PADOVANI, ICTP, Italy  
Y. PIPMAN, MPWB, USA  
M. SEVERGNINI, University Hospital of Trieste, Italy  
W. SONG, AAPM, USA  
C.J. TRAUERNICHT, FAMPO

## 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 physicists, 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 applied to radiation therapy
- Radiation 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
- Artificial intelligence in radiation therapy
- Case studies

## Local Organiser:

R. PADOVANI, ICTP, Italy

## How to apply:

Online application:  
<http://indico.ictp.it/event/10205/>

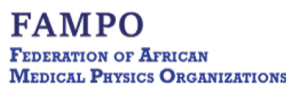
Female scientists are encouraged to apply.

## 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.

## Deadline:

**25 June 2023**



The Abdus Salam  
International Centre  
for Theoretical Physics  
[www.ictp.it](http://www.ictp.it)  
Trieste, Italy

