



The Abdus Salam
**International Centre
for Theoretical Physics**



College on Medical Physics 2026

DESCRIPTION:

The 2026 ICTP College on Medical Physics is designed to empower Medical Physics in LMICs by achieving **Excellence in Medical Physics** through **Outreach, Workshops, Education, and Research**, thus directly influencing the overall quality of healthcare.

MORE INFORMATION:

The College aims to provide a deep understanding of the fundamentals of medical imaging physics and their practical implementation in the management and operation of complex equipment. Another key aspect of the College is related to medical physics capacity building in developing countries.

The College prepares the participants to transfer their knowledge to their colleagues. The participants receive a free compilation of e-learning materials that enables them to organize spin-off activities in their own countries thus creating a solid global network to lay the basics for sustainable growth of the profession in the developing regions.

TOPICS:

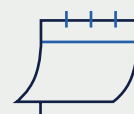
Fundamentals of Medical Imaging Physics

- Radiation sources
- Digital detectors
- Radiation dosimetry
- X-ray imaging – X-ray tubes, generators and imaging detectors
- Digital imaging– radiography, mammography, fluoroscopy, dental
- Computed Tomography (CT)
- Interventional radiology and fluoroscopy
- Single-Photon Emission Computed Tomography (SPECT):
- Positron Emission Tomography (PET)
- Magnetic Resonance Imaging (MRI)
- Hybrid Medical Imaging (SPECT/CT, PET/CT, PET/MRI)
- Diagnostic imaging–principles, characteristics, quality, optimization
- Radiation protection & safety

SPEAKERS:

L. Bertocchi
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P. Bregant
Maggiore Hospital Cancer Center, Italy
M. Esposito
ICTP, Italy
F. Milano
University of Florence, Italy
J. Oshinski
Emory University, School of Medicine, USA

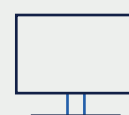
R. Padovani
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P. Sprawls
Emory University, School of Medicine, USA
M. Stoeva
Medical University Plovdiv, Bulgaria
S. Tabakov
IUPESM, UK
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Medical University of South Carolina, USA



24 August - 12 September 2026



Trieste, Italy



**Deadline:
1 March 2026**

DIRECTORS:

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P. Bregant, Maggiore Hospital Cancer Center, Italy
R. Padovani, ICTP, Italy
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LOCAL ORGANIZER:

M. Esposito, ICTP, Italy

FURTHER INFORMATION:

E-mail: smr4232@ictp.it



Web: <https://indico.ictp.it/event/11158/>

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.

