



The Abdus Salam
International Centre
for Theoretical Physics



Joint ICTP-IAEA Workshop on Quantitative Imaging and Analysis Methods in Modern Nuclear Medicine

Description:

An advanced workshop for medical physicists working in nuclear medicine departments, diving deep into advanced nuclear medicine imaging, emphasizing quantitative methods, rigorous quality control, and emerging trends.

MORE DETAILS:

The ICTP-IAEA workshop, tailored for medical physicists, delves into the complex world of nuclear imaging. Participants will explore SPECT & PET quantification, both theoretical and hands-on, using state-of-the-art freeware. Emphasis on quality protocols and addressing physical effects ensures data accuracy. The curriculum includes Monte Carlo simulations for gamma camera optimization and insights into the evolution of hybrid imaging. The goal of this course is to arm attendees with the skills and knowledge to leverage future innovations, ensuring a seamless blend of theory and practical application for improved clinical outcomes.

TOPICS:

- Introduction to quantitative imaging in nuclear medicine
- Principles of image quantification and data analysis in SPECT and PET
- Quality assurance and control in nuclear medicine imaging
- Hands-on sessions on imaging and analysis with freeware software
- Monte Carlo simulations in nuclear medicine

LECTURERS:

Elena De Ponti, IRCCS San Gerardo dei Tintori, Monza, Italy

John Dickson, University College London, EFOMP, UK

Michael Ljungberg, Lund University, Sweden

Mario Marengo, University of Bologna and Istituto Oncologico Veneto, AIFM, Italy

Ivo Rausch, Medical University of Vienna, Austria

Dimitris Visvikis, INSERM, EANM, France



29 April - 3 May 2024



Trieste, Italy



Deadline:

31 January 2024

DIRECTOR:

P. KNOLL, IAEA

LOCAL ORGANISER:

M. ESPOSITO, ICTP

FURTHER INFORMATION:



E-mail: smr3933@ictp.it

Web: <https://indico.ictp.it/event/10471/>

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.



IAEA
International Atomic Energy Agency
Atoms for Peace and Development



EFOMP
EUROPEAN FEDERATION OF ORGANISATIONS FOR MEDICAL PHYSICS

