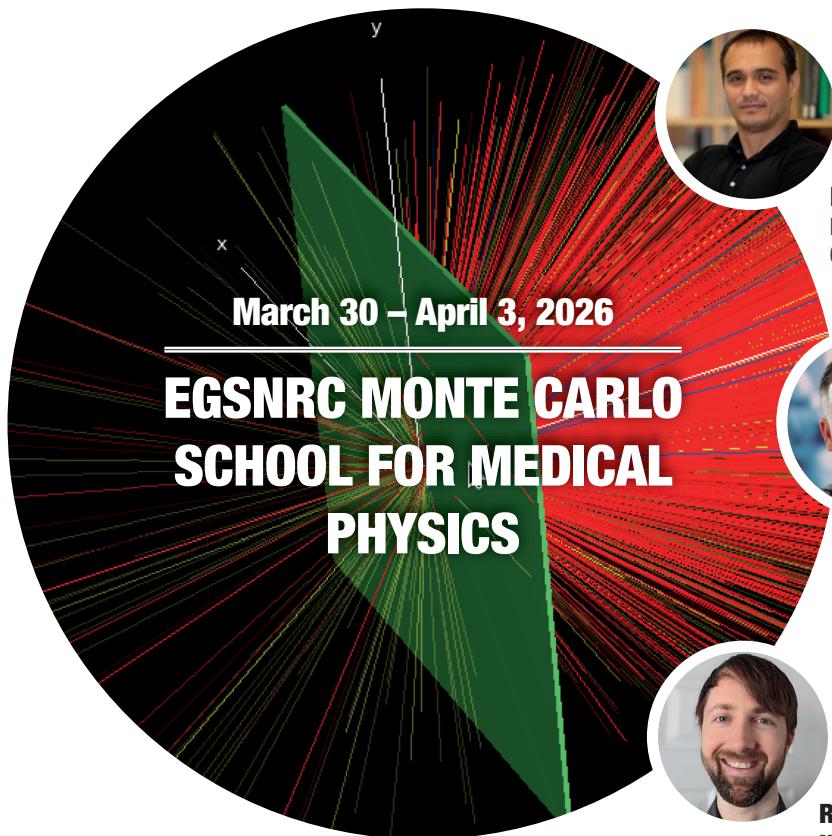




Campus of IFT-UNESP – São Paulo, Brazil



Monte Carlo techniques are the most rigorous tools for modelling radiation transport in medical physics. The widespread availability of general-purpose software (EGSnrc, Penelope, Geant4) and increasing computational capabilities have led to their extensive adoption in recent years. As a fundamental calculation tool, the Monte Carlo method will continue to drive accurate dosimetry and innovative research in radiation therapy, medical imaging, and radiation protection.

This school provides participants with comprehensive training in Monte Carlo methods for medical applications in therapy and diagnostics, including hands-on simulation laboratories using the EGSnrc toolkit. The target audience is students and professionals with an interest in Monte Carlo Simulation applied to medical physics and ionizing radiation.

There is no registration fee and limited funds are available for travel and local expenses. It is highly recommended that participants in this event prepare poster presentations.

Application deadline:
December 30, 2025

**Online application and
more information:**
ictp-saifr.org/egsnrc2026



serrapilheira



National Research
Council Canada



ORGANIZERS

Matheus Rebello do Nascimento

INMETRO & UERJ, Brazil

Eric Matos Macedo

IFBA, Brazil

Frédéric Tessier

NRC, Canada

ICTP-SAIFR STEERING COMMITTEE

Atish Dabholkar (chair, ICTP director)

Mayra Furlan (UNESP rector)

Márcio de Castro Silva Filho (FAPESP scientific director)

Hugo Aguiar (Serrapilheira president-director)

Helena Nader (Brazilian Academy of Sciences president)

Juan Maldacena (South American representative)

ICTP-SAIFR SCIENTIFIC COUNCIL

Carlos Brito Cruz (chair, Elsevier)

Rosario Fazio (ICTP)

Ricardo Matheus (IFT-UNESP)

William Bialek (Princeton Univ.)

Eduardo Fradkin (Univ. of Illinois)

Gabriela Gonzalez (Louisiana State Univ.)

André de Gouvêa (Northwestern Univ.)

Michael Green (Cambridge Univ.)

Karen Hallberg (Balsiero Inst.)

Luis Lehner (Perimeter Inst.)

ICTP-SAIFR STAFF

Nathan Berkovits (Director)

Rogerio Rosenfeld (Vice-Director)

Pedro Vieira (Perimeter-SAIFR Coordinator)

William Santos (Activities Coordinator)

Larissa Takeda (Science Journalist)

Humberto Neto (Executive Secretary)

Luiz Eduardo Moreira (Computer Systems Manager)

Lilia Faria (Financial Manager)

Marrey Peres, Jr. (Operations Manager)

Thiago Codinhotto (Technical Assistant)

Felipe Saldanha (Communications Coordinator)