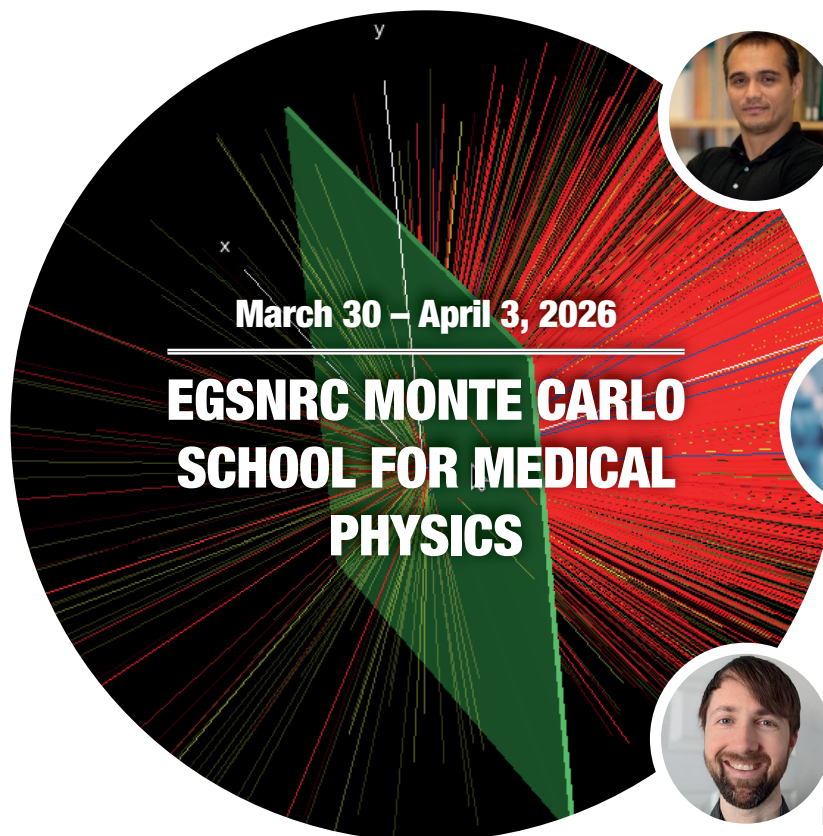




ICTP | International Centre for Theoretical Physics
SAIFR | South American Institute for Fundamental Research

Campus of IFT-UNESP – São Paulo, Brazil



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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



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