



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

Campus of IFT-UNESP – São Paulo, Brazil

December 8 – 12, 2025

QCD MEETS GRAVITY SCHOOL



RICCARDO STURANI
IFT-UNESP/ICTP-SAIFR, Brazil



HENRIK JOHANSSON
Uppsala U., Sweden



ALFREDO GUEVARA
IAS, Princeton, USA



DAVID KOSOWER
IPhT, Saclay, France

Gauge theories and gravitational interactions form the basis of our current understanding of the universe. To realize them in a unified framework is a formidable task, yet common properties have been uncovered through a duality between color and kinematics and the subsequent double-copy perspective. More recently, observations of gravitational waves have triggered a surge of research in this field, and modern amplitudes-based techniques have been very useful for the general relativistic two-body problem.

In this advanced school, students will learn modern techniques for computing scattering amplitudes which are not usually seen in standard graduate courses, and will interact with renowned researchers in the field. The conference “QCD meets Gravity XI” will follow this one-week school.

There is no registration fee and limited funds are available for travel and local expenses.

Application deadline:
September 8, 2025

Online application and more information:
ictp-saifr.org/qcdmg2025school



ORGANIZERS

Zvi Bern
UCLA, USA

David Kosower
IPhT, Saclay, France

Riccardo Sturani
IFT-UNESP/ICTP-SAIFR, Brazil

Gabriel Menezes
IFUSP, Brazil

Thales Azevedo
IF-UFRJ, Brazil

ICTP-SAIFR STEERING COMMITTEE

Atish Dabholkar (chair, ICTP director)
 Maysa Furlan (UNESP rector)
 Márcio de Castro Silva Filho (FAPESP scientific director)
 Hugo Aquilaniu (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 (Balseiro Inst.)
 Luis Lehner (Perimeter Inst.)

ICTP-SAIFR STAFF

Nathan Berkovits (Director)
 Rogerio Rosenfeld (Vice-Director)
 Pedro Vieira (Perimeter-SAIFR Coordinator)
 Larissa Takeda (Activities Coordinator)
 Humberto Neto (Executive Secretary)
 Luiz Eduardo Moreira (Computer Systems Manager)
 Lilia Faria (Financial Manager)
 Daniel Almeida (Visitors Coordinator)
 Marrey Peres, Jr. (Operations Manager)
 Thiago Codinhoto (Technical Assistant)
 Felipe Saldanha (Communications Coordinator)