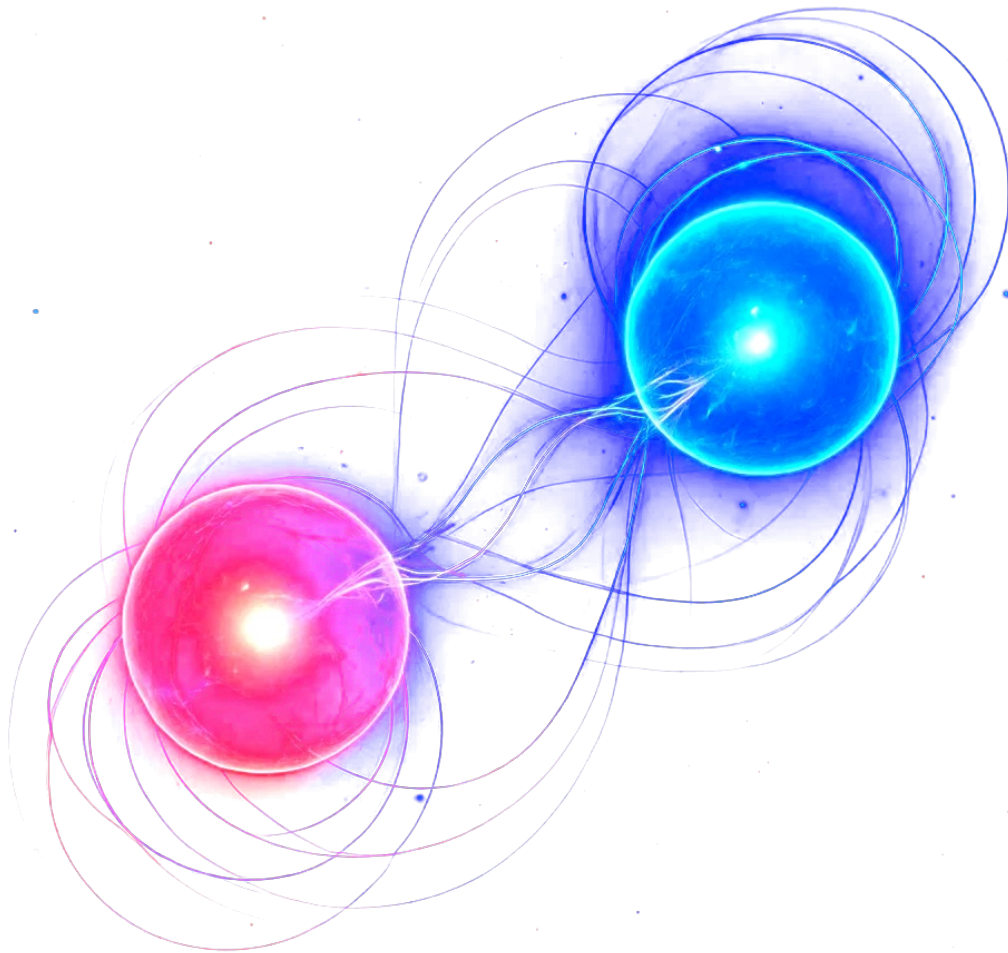


Quantum Optics School

November 17 to 20, 2025

Santa Cruz de la Sierra, Bolivia



In celebration of the International Year of Quantum, the Red Iberoamericana de Óptica (RIAO - Iberian-American Network for Optics), in cooperation with the International Commission for Optics (ICO) and the support of the IEEE Photonics Society (IPS), is organizing the *International School on Quantum Optics*, collocated with the RIAO-OPTILAS 2025 Conference, the flagship event for optics and photonics in the Iberian-American region, that will take place from November 17 to 21, 2025, at the Santa Cruz de la Sierra Campus of the Universidad Privada Boliviana.

In an active and interactive way and open casual and friendly atmosphere, world renowned scholars and researchers will address Quantum and Quantum Optics from the very basics to some more advanced topics both theoretical and experimental or applied including with industrial applications examples.

The School' sessions will be distributed along the week with a schedule that will allow participants to also attend and enjoy the activities of RIAO-OPTILAS 2025 conference.

Provisional list of lectures:

The History of Quantum

Efrain Solarte, Universidad del Valle, Colombia

From Semi-Classical to Quantum Theory: Understanding Atom-Field Interactions

Imrana Ashraf Zahid, Quaid-i-Azam University, Pakistan

Introduction to quantum nonlinear optics

Jose Luis Paz, Universidad Nacional Mayor de San Marcos, Peru

How to use quantum optics to do non-linear optics

Humberto Michinel, University of Vigo, Spain

Quantization of the Free Electromagnetic Field and Quantum States of Light

Imrana Ashraf Zahid, Quaid-i-Azam University, Pakistan

Precision measurement in optics and quantum optics

John Howell, Chapman University, USA

Optical quantum communications

Yaseera Ismail, Stellenbosch University, South Africa.

Basics of Photoacoustic Spectroscopy (with Prototype
Demonstration)

&

Bringing Photoacoustic Spectroscopy to Industrial Applications

Abdul Rahman, University of Szeged, Hungary.

Braga, Portugal, June 18, 2025.

Manuel Filipe P. C. M. Costa

(Chair of the Education Committee of the International Commission for Optics)