

OUR DUTY IS TO FOSTER QUANTUM PHYSICS IN CUBA. NUESTRO DEBER ES IMPULSAR LA FÍSICA CUÁNTICA EN CUBA.

R. MULET-GENICIO

The proclamation of 2025 as the **International Year of Quantum Science and Technology (IYQST)** by the United Nations commemorates a century since the moment in which quantum mechanics revolutionized our understanding of the physical world. This designation recognizes the scientific triumphs of the past from Heisenberg's uncertainty principle to Schrödinger's wave equation, and the technologies quantum science has enabled, such as semiconductors, computers, lasers, MRI imaging, and nuclear energy. Today, we are on the brink of a second quantum revolution with fast progress in quantum computing, sensing, and encryption that may soon transform our societies. This global celebration reminds all of us of the urgent need to harness physics in general and quantum physics in particular for the sustainable development of our country and of humanity. Cuba's journey in quantum physics is a testament to the resilience and ingenuity of our community. Indeed, Cuban physicists have mastered quantum mechanics: It has been one of our most fertile research areas for several decades. With a lot of effort, our community has continued working in the field despite the very limited resources available over the past 30 years. Quantum physics is part of our undergraduate programs and is revisited in several

postgraduate courses at the Cuban universities where physics is taught. Theoretical and experimental work in the field, together with the help of international collaborations, is an important part of our doctoral programs. I recommend to the readers the editorial *Año Internacional de la Ciencia y la Tecnología Cuántica* by C. Rodríguez-Castellanos [1]. The work highlights pivotal periods from the initial introduction of quantum theory to contemporary developments showcasing how Cuba has engaged in this cutting-edge field. As we commemorate the International Year of Quantum Science and Technology, let me reaffirm in the name of the Cuban Physical Society our commitment to continue to foster physics and quantum physics in Cuba. This year serves as a call to action: to strengthen collaborations, invest in young talent, and bridge the gap between fundamental science and applications. Quantum technologies promise solutions to pressing challenges, from energy to healthcare. If Cuba is expected to be *a country of men and women of science*, our science must contribute to these solutions.

- [1] C. Rodríguez-Castellanos, *An. Acad. Cienc. Cuba*, **15**, e2911 (2025)

This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International (CC BY-NC 4.0, <https://creativecommons.org/licenses/by-nc/4.0>) license.

