

# Workshop Quantum Technologies: fundamentals and applications

**Date:** November 24th-25th 2025

**Venue:** Multipurpose Hall, [Mar de Vigo Auditorium \(Vigo\)](#)

## PROGRAMME

### November 24th

**09:00 – 09:30 | Welcome and registration**

**09:30 – 10:00 | Institutional Opening**

- Sabela Pardo. Directora de Programas de Innovación, Axencia Galega de Innovación (GAIN)
- Luis Pérez Freire. Director General, Gradiant

### Session 1. Strategy and fundamentals of Quantum Technologies

**10:00 – 11:00 | Opening lecture: *Quantum technologies: origins, current status and prospects***

Massimo Inguscio. Professor of Physics, LENS, Università di Firenze, INRIM & CNR

**11:00 – 11:45 | Technical presentation: *Quantum computing in perspective: fundamentals, technologies and applications***

José Miralles. Quantum Applications Engineer, Qilimanjaro Quantum Tech

**11:45 – 12:15 | Coffee break**

**12:15 – 13:00 | Technical presentation: *Computación cuántica: algunos casos de uso***

Andrés Gómez Tato. Head of the Department of Applications and Projects, CESGA

**13:00 – 13:45 | Presentation: *Fsas International Quantum Center: Estrategia, hoja de ruta y casos de éxito en el sector salud y energético***

Alejandro Borrallo Rentero. Quantum Computing Manager, Fsas Technologies (Fujitsu)

**13:45– 14:45 | Networking lunch**

### Session 2. Strategic Programmes and Investments in Quantum Technologies

#### 15:00 – 15:30 | Presentation: *Quantum Europe Strategy towards the Quantum Act*

Christian Trefzger. Principal Administrator Quantum Technologies & High Performance Computing, European Commission

#### 15:30 – 16:30 | Round table: *Posicionamiento estratégico español en tecnologías cuánticas*

Moderator: Luis Pérez Freire. Executive Director, Gradiant

- Almudena Justo, International Quantum Center Director, Fsas Technologies (Fujitsu)
- Lois Orosa, Scientific Director, CESGA
- Sabela Pardo, Director of Innovation Strategies and Programs, Axencia Galega de Innovación (GAIN)
- Pilar Troncoso, Chief Relations Officer, QCentroid
- Paco Benítez, Innovation & Prospective Director, FIDESOL

#### 16:30 – 17:15 | Presentation: *QuIC – Quantum Europe Strategy*

David Morcuende, Network Manager, European Quantum Industry Consortium (QuIC)

#### 17:15 – 17:30 | Open discussion, conclusions and closure

Conference led by: Luis Quevedo, journalist, presenter and science communicator

### November 25th

#### 8:30 – 9:00 | Opening and registration

#### 9:05 – 9:45 | Technical presentation: *Quantum Communications: fundamentals, applications and perspectives*

Davide Bacco. Assistant Professor, Università di Firenze & CTO O at QTI SRL

#### 9:45– 10:30 | Technical presentation: *Towards a Quantum Internet*

Luís Bugalho. PhD Student in Quantum Networks and Information, Instituto Superior Técnico (IST), Universidade de Lisboa

**10:30 – 11:15 | Technical presentation: *Solid-state Quantum Memories for Quantum Repeaters***

Manuel Gundín Martínez. Research Fellow, ICFO

**11:15 – 11:45 | Coffee break**

**11:45 – 12:30 | Technical presentation: *Quantum magnetometers for biomedical applications and beyond***

Jana Nieder. Research Group Leader, INL

**12:30 – 13:15 | Technical presentation: *Quantum metrology and sensing with atomic systems***

Aleksandra Sierant. Research Fellow, ICFO

**13:15 – 14:00 | Technical presentation: *Quantum sensors for defence, aerospace and telecommunications***

Miguel Ferreira Cao. Head of Quantum Technologies, Gradiant

**14:00 | Open discussion and closure**

Conference led by: Luis Quevedo, journalist, presenter and science communicator