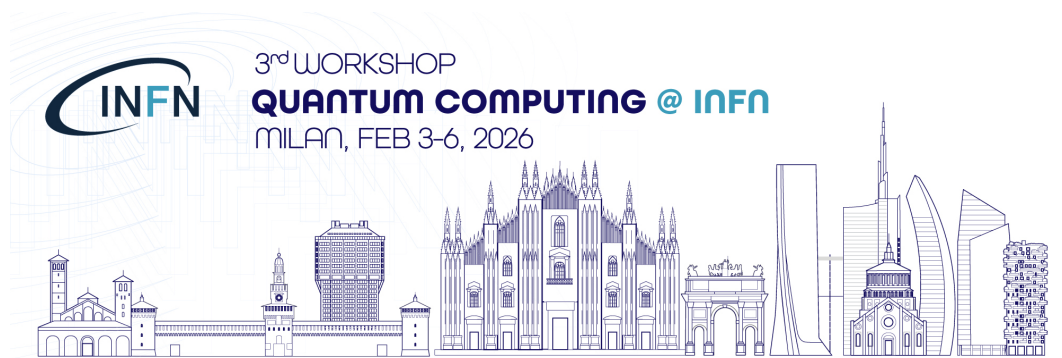


## Session Program

3-6 Feb 2026



# 3rd Workshop on Quantum Computing @ INFN

## *Technological aspects*

Auditorium U12 - Guido Martinotti  
Università degli Studi di Milano-Bicocca, Edificio U12, Via Vizzola, 5, 20126 Milano (MI)

# Wednesday 4 February

16:45

## Technological aspects

**Session** |

**Location:** Auditorium U12 - Guido Martinotti, Università degli Studi di Milano-Bicocca, Edificio U12, Via Vizzola, 5, 20126 Milano (MI)  
**Co-Chairs:** Francesco Pederiva, Francesco Pederiva

16:45-17:05

### Quantum computing and security. A reasonable worry?

**Speaker**

Vincenzo Ciaschini

17:05-17:25

### The Qibo Ecosystem: Integrating Advanced QML with Real-Time Hardware Control

**Speaker**

Andrea Papaluca

17:25-17:45

### Chalmers automatic calibration, a software framework to build collaborations

**Speaker**

Michele Faucci Giannelli

17:45-18:05

### Hybrid workflow compilation for Quantum Natural Gradient optimizer in PennyLane

**Speaker**

Simone Gasperini

18:30

# Thursday 5 February

11:15

## Technological aspects

**Session** |

**Location:** Auditorium U12 - Guido Martinotti, Università degli Studi di Milano-Bicocca, Edificio U12, Via Vizzola, 5, 20126 Milano, Italy  
**Location:** Auditorium U12 - Guido Martinotti, Università degli Studi di Milano-Bicocca, Edificio U12, Via Vizzola, 5, 20126 Milano, Italy

11:15-11:35

### The Italian landscape of Quantum Computing

**Speaker**

Paolo Cremonesi

11:35-11:55

### The 25 → 64 Qubits Superconducting Quantum Computer of the HPC National Center @Unina: Physics, Implementation, Operation & Hardware Evolution

**Speaker**

Prof. Francesco Tafuri

11:55-12:15

### Full-Stack Quantum Engineering at Politecnico di Torino: The Lagrange System

**Speaker**

Giovanna Turvani

12:15-12:35

### Quantum Computing at CINECA: Integrating a Quantum Accelerator into an HPC Environment

**Speaker**

Sara Marzella

12:35-12:55

### Activities on Quantum Computing in the Salerno Area

**Speaker**

Prof. Sergio Pagano

13:00

14:30

## Technological aspects

**Session** |

**Location:** Auditorium U12 - Guido Martinotti, Università degli Studi di Milano-Bicocca, Edificio U12, Via Vizzola, 5, 20126 Milano, Italy  
**Location:** Auditorium U12 - Guido Martinotti, Università degli Studi di Milano-Bicocca, Edificio U12, Via Vizzola, 5, 20126 Milano, Italy

14:30-14:50

### Italian Technological Platforms for Quantum Computing

**Speaker**

Francesco Cataliotti

14:55-15:15

### Quantum Computers to accelerate the path to FTQC

**Speaker**

Cosma Belli

15:20-15:40

### IBM - towards Quantum Advantage and Error Correction

**Speakers**

Davide Moretti, Luca Cavallini, Vito Sammarco

15:45-16:05

### VIO, an architecture for scaling superconducting quantum processors

16:15

**Speaker**  
Alessandro Bruno

# Friday 6 February

10:00

## Technological aspects

**Session |**

**Location:** Auditorium U12 - Guido Martinotti, Università degli Studi di Milano-Bicocca, Edificio U12, Via Vizzola, 5, 20126 Milano (MI)  
**Co-Chair:** Dr. Andrea Giachero

10:00-10:20

### **Two-photon interferometry: beyond the boundaries of distinguishability**

**Speaker**

Dr Fabrizio Sgobba

10:20-10:40

### **Integrated Waveguide Source of Squeezed Vacuum for Quantum computation and Gravitational-Wave Detection**

**Speaker**

Hamza Hasnaoui

10:45